

# Market Report Catalog

## Automotive

February 2018



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## ■ Automotive ■

# Table of Contents

<i>Automotive Chassis Market by Chassis Type (Backbone, Ladder, Monocoque, Modular), Material (Steel, Aluminum Alloy, Carbon Fiber Composite), Electric Vehicle (BEV, PHEV, HEV), Vehicle Type (PC, CV), and Region - Global Forecast to 2025.....</i>	<i>1</i>
<i>Research Report on Automobile Headlamp Industry in China, 2018-2022 .....</i>	<i>1</i>
<i>Global and China Tire Pressure Monitoring System (TPMS) Industry Report, 2017-2021 .....</i>	<i>2</i>
<i>Advanced engine technologies for meeting CO2 and fuel economy targets - forecasts to 2032 .....</i>	<i>2</i>
<i>Global Smart Fleet Management Market 2018-2022 .....</i>	<i>3</i>
<i>Automotive Braking Systems - technology, trends and forecasts to 2032.....</i>	<i>3</i>
<i>Automotive Vision Systems - technology, trends and forecasts to 2032.....</i>	<i>4</i>
<i>NVH Testing Market by Application (Environmental Noise, Pass-by-noise, Noise Mapping, Sound Power, Telecom Testing, Sound Quality, Building Acoustics, Human Vibration, Product Vibration), Type, End User, Geography - Global Forecast to 2023 .....</i>	<i>4</i>
<i>India Automotive Lubricants Market By Vehicle Type (Two-Wheeler, Passenger Car, Light Commercial Vehicle, Tractors &amp; Others), By Lubricant Type, By Base Oil, By Demand Category, By Sales Channel, Competition Forecast &amp; Opportunities, 2012 - 2022 .....</i>	<i>5</i>
<i>India Two-Wheeler Helmet Market By Product Type (Full face, Half Face, Open Face Modular, &amp; Motocross), By Distribution Channel (Showrooms/Specialty Stores, Supermarket/ Hypermarket, Multi-brand Stores), Competition Forecast &amp; Opportunities, 2012-2022 .....</i>	<i>5</i>
<i>India Electric Passenger Car Market, By Vehicle Type (Hatchback, Sedan, and SUV &amp; MUV), By Drivetrain Technology (PHEV and BEV), By Battery Capacity (&lt;201 Ah and &gt;201 Ah), Competition Forecast &amp; Opportunities, FY2103 - FY2023 .....</i>	<i>6</i>
<i>Research Report on Automobile Air-Conditioner Industry in China, 2018-2022 .....</i>	<i>6</i>
<i>India Electric Vehicle Market By Vehicle Type (Three-Wheeler, Two-Wheeler, Passenger Car &amp; Bus), By Drivetrain Technology (Battery Electric Vehicle Vs. Plug-in Electric Vehicle), Competition Forecast &amp; Opportunities, FY2013 - FY2023 .....</i>	<i>7</i>
<i>Indian Commercial Vehicles Market By Vehicle Type (Light, Medium, and Heavy Commercial Vehicles), Competition Forecast &amp; Opportunities, 2023 .....</i>	<i>7</i>
<i>Autonomous Cars: The Race to Develop the First Level 5 Car .....</i>	<i>8</i>
<i>Global Automotive Rubber Seal Market By Vehicle Type (PC, LCV, M&amp;HCV, 2W &amp; OTR), By Product Type (Mechanical, Lip Seals, Rotary Seals, etc.), By Region (APAC, Europe &amp; CIS, North America, etc.), Competition Forecast &amp; Opportunities, 2012 - 2022 .....</i>	<i>8</i>

<i>India Used Car Market By Vehicle Type (Small, Mid-Size &amp; Luxury), By Sector (Organized Vs. Semi-Organized/Unorganized), By Sales Channel (Dealership/Broker Vs. C2C), By Fuel Type (Petrol &amp; Others), Competition Forecast &amp; Opportunities, 2012 - 2022</i> .....	9
<i>Brazil Retreading Tire Market By Vehicle Type (Truck, Bus, OTR and Passenger Car), Competition Forecast &amp; Opportunities, 2012 - 2022</i> .....	9
<i>Global 3PL Market in FMCG Industry 2018-2022</i> .....	10
<i>Smart Parking Technologies and Global Markets</i> .....	10
<i>Vehicle Engines And Engine Parts Manufacturing: Global Markets to 2020</i> .....	11
<i>Global Automotive Navigation Systems Market Report, Analysis and Forecast 2017-2021: Focus on In-dash and Smartphone based Navigation Systems</i> .....	11
<i>Pharmaceutical Logistics Market in North America 2018-2022</i> .....	12
<i>Global Hotel Logistics Market 2018-2022</i> .....	12
<i>Electric Vehicles for Construction, Agriculture and Mining 2018-2028</i> .....	13
<i>Off Grid Electric Vehicle Charging: Zero Emission 2018-2038</i> .....	13
<i>The Rise of the Electric Car: How Will it Impact Oil, Power and Metals?</i> .....	14
<i>Global Two-wheeler Wiring Harness Market 2017-2021</i> .....	14
<i>Global Automotive Ignition Coil Market 2017-2021</i> .....	15
<i>Global Automotive Torque Converter Market 2017-2021</i> .....	15
<i>Global Automotive Variable Intake Air Control Valve Market 2017-2021</i> .....	16
<i>Global Automotive Roof Systems Market 2017-2021</i> .....	16
<i>Global Automotive Powertrain Cooling System Market 2017-2021</i> .....	17
<i>IDC PeerScope: Practices for Deploying Service Robotics in Logistics</i> .....	17
<i>Transmission Repair Market by Component (Gasket &amp; Seal, Fluid, O-ring, Transmission Filter, Gear, Clutch Plate, Pressure Plate, Oil Pump), Repair type (Transmission General Repair, Overhaul), Vehicle Type, and Region - Global Forecast to 2022</i> .....	18
<i>Global Automotive Filters Market 2017-2021</i> .....	18
<i>Global Automotive Augmented Reality and Virtual Reality Market 2017-2021</i> .....	19
<i>Micro EVs, e-Bikes, e-Scooters, e-Motorbikes, Mobility for Disabled 2018-2028</i> .....	19
<i>Global Automotive Engine Oil Cooler Market 2017-2021</i> .....	20
<i>Global Automotive Engine Heater Market 2017-2021</i> .....	20
<i>Global Automotive Fuel Injector Market 2017-2021</i> .....	21
<i>Global Automotive IC Market 2017-2021</i> .....	21
<i>Global Commercial Vehicle Airbag Systems Market 2017-2021</i> .....	22
<i>Analysis of the Global Automotive Refinish Coatings Market, Forecast to 2023</i> .....	22
<i>Global and China Automotive Fuel Tank Industry Report, 2017-2021</i> .....	23
<i>Global All Wheel Drive (AWD) E-bikes Market 2017-2021</i> .....	23
<i>Global Automotive Mass Air Flow (MAF) Sensors Market 2017-2021</i> .....	24

<i>Global Automotive Fog Lights Market 2017-2021</i> .....	24
<i>Global Automotive Knock Sensor Market 2017-2021</i> .....	25
<i>Global Automotive Dashboard Camera Market 2017-2021</i> .....	25
<i>Transfer Case Market by Drive Type (Chain, Gear Driven), Shift Type (Electronic, Manual), Type (AWD, 4WD), Off-Highway (Construction Equipment, Farm Tractor), Ice &amp; Hybrid Vehicle (Passenger Car, LCV, HCV, HEV, PHEV), Region - Global Forecast to 2025</i> .....	26
<i>Global Automotive Aftermarket for Spark Plugs 2017-2021</i> .....	26
<i>Global Automotive Valvetrain System Market 2017-2021</i> .....	27
<i>Global Motorcycle Twin Cylinder Engine Market 2017-2021</i> .....	27
<i>Global Automotive Active Safety System Market 2017-2021</i> .....	28
<i>Global Automotive Performance Engine Bearings Market 2017-2021</i> .....	28
<i>Global and China Automotive Electric Motor (Small Motor/ Starter and Generator/ NEV Motor) Industry Report, 2017-2021</i> .....	29
<i>The European Tires Market, 2012 - 2022: Market size, market forecast and recommendations</i> .....	29
<i>Global Automotive Heads-up Display Market 2017-2021</i> .....	30
<i>Global Automotive Stamped Components Market 2017-2021</i> .....	30
<i>Global Automotive Coolant Hose Market 2017-2021</i> .....	31
<i>Global Automotive Exhaust Systems Market 2017-2021</i> .....	31
<i>Global Automotive Engine Valves Market 2017-2021</i> .....	32
<i>Global Automotive Cabin Insulation Market 2017-2021</i> .....	32
<i>Global Automotive Power Folding Mirror Systems Market 2017-2021</i> .....	33
<i>Global In-vehicle Payment Services Market 2017-2021</i> .....	33
<i>Global Automotive Brake Rotors Market 2017-2021</i> .....	34
<i>Global Electric Vehicles Market, Analysis &amp; Forecast 2017-2026: Focus on Battery, Motor Regenerative Brake, Battery Electric Vehicle and Passenger Car Application</i> .....	34
<i>Global Automotive Steering Angle Measurement Sensor Market 2017-2021</i> .....	35
<i>Global Two-wheeler Keyless Entry System Market 2017-2021</i> .....	35
<i>Global ATV Lighting System Market 2017-2021</i> .....	36
<i>Global Automotive Torque Sensor Market 2017-2021</i> .....	36
<i>Global Automotive Body Control Module Market 2017-2021</i> .....	37
<i>Research Report on Automobile Tire Industry in China, 2018-2022</i> .....	37
<i>Global Automotive Retractable Door Handle System Market 2017-2021</i> .....	38
<i>Global Automotive Transmission Control Unit (TCU) Market 2017-2021</i> .....	38
<i>Global Automotive Seat Control Module Market 2017-2021</i> .....	39
<i>Global Luxury SUV Market 2017-2021</i> .....	39
<i>Global ATV Steering System Market 2017-2021</i> .....	40
<i>Urban Logistics Opportunities - Last-Mile Innovation</i> .....	40

<i>Global Automotive Upholstery Market 2017-2021</i> .....	41
<i>Global Automotive Tie Rod Assembly Market 2017-2021</i> .....	41
<i>Global Automotive Active Engine Mount Market 2017-2021</i> .....	42
<i>Global Automotive Engine Oil Level Sensor Market 2017-2021</i> .....	42
<i>Global Automotive High-efficiency Particulate Air (HEPA) Filter Market 2017-2021</i> .....	43
<i>Global Automotive Seals and Gaskets Market 2017-2021</i> .....	43
<i>Tappet Market for Automotive by Type (Flat, and Roller), End User (Economic, Mid-priced, and Luxury passenger cars), Engine Capacity (&lt;4 cylinders, 4-6 cylinders, and &gt;6 cylinders), Vehicle Type, and Region - Global Forecast to 2025</i> .....	44
<i>Global Automotive Door Control Unit (DCU) Market 2017-2021</i> .....	44
<i>Global Automotive Pump Market 2017-2021</i> .....	45
<i>Strategic Analysis of the Mobility Value Chain, 2017</i> .....	45
<i>Opportunity Analysis of the OBD II Automotive Aftermarket, Forecast to 2023</i> .....	46
<i>Global Motorcycle Rental Market 2017-2021</i> .....	46
<i>Global Motorcycle High Performance Braking System Market 2017-2021</i> .....	47
<i>Global Automotive Keyless Entry System Market 2017-2021</i> .....	47
<i>Global Automotive Throttle Position Sensor (TPS) Market 2017-2021</i> .....	48
<i>Global Automotive Audio Speakers Market 2017-2021</i> .....	48
<i>Global Automotive Seat Massage System Market 2017-2021</i> .....	49
<i>Global Automotive Switches Market 2017-2021</i> .....	49
<i>Global Automotive Rocker Arm Market 2017-2021</i> .....	50
<i>Global Reefer Container Leasing Market 2017-2021</i> .....	50
<i>Global Automotive Front-end Module Market 2017-2021</i> .....	51
<i>Global Commercial Vehicle Thermal Management Systems Market 2017-2021</i> .....	51
<i>Global Electric Vehicle ECU Market 2017-2021</i> .....	52
<i>Global Automotive Throttle Body Assembly Market 2017-2021</i> .....	52
<i>Global Automotive Sensors Market 2017-2021</i> .....	53
<i>Vehicle Grid Integration - Managing Plug-In EVs in Grid Services: Global Market Analysis and Forecasts</i> .....	53
<i>Global Commercial Vehicle Connectors Market 2017-2021</i> .....	54
<i>Global Automotive Piston Market 2017-2021</i> .....	54
<i>Global Automotive Oxygen Sensor Market 2017-2021</i> .....	55
<i>ASEAN Logistics Market - Disruptive Innovations, Forecast to 2025</i> .....	55
<i>Global Automated Parking Systems Market 2017-2021</i> .....	56
<i>Global Automotive Seat Actuation System Market 2017-2021</i> .....	56
<i>Global Automotive Connecting Rod Market 2017-2021</i> .....	57
<i>Global Automotive Driver State Monitoring System Market 2017-2021</i> .....	57
<i>Future Trends in Luxury Electric Vehicle Market in North America and Europe, 2016-2025</i> .....	58

<i>Market Data - EV Market Forecasts: Global Forecasts for Light Duty Plug-In Hybrid and Battery EV Sales and Populations 2017-2026</i> .....	58
<i>Global Automotive Belt Tensioner Pulleys Market 2017-2021</i> .....	59
<i>Global Automotive Push Rods Market 2017-2021</i> .....	59
<i>Global Automotive Seat Recliners Market 2017-2021</i> .....	60
<i>Market Data - Low Voltage Vehicle Electrification - 12 V and 48 V Stop-Start Vehicles, Micro- and Mild-Hybrids, and Related Technologies: Global Market Analysis and Forecasts</i> .....	60
<i>Global Automotive Holographic Display Market 2017-2021</i> .....	61
<i>Global Automotive Regenerative Braking System Market 2017-2021</i> .....	61
<i>Global Automotive Suspension System Market 2017-2021</i> .....	62
<i>Global Small Electric Vehicle Market By Vehicle Type (Passenger Car Vs. Commercial Vehicle), By Technology Type (Battery Electric Vehicle Vs. Plug-in Electric Vehicle), By Battery Type, By Region, Competition Forecast &amp; Opportunities, 2016 - 2022</i> .....	62
<i>India Passenger Car Market By Vehicle Type (Hatchback, Sedan, SUV &amp; MUV), By Segment Type (Mini, Compact, Micro, C1, C2, D, E, &amp; F), By Fuel Type (Petrol, Diesel &amp; CNG), By Engine Capacity, Competition Forecast &amp; Opportunities, 2012 - 2022</i> .....	63
<i>India Solid Waste Management Vehicles Market By Vehicle Type (Auto Tipper, Compactor Truck, Dumper Placer &amp; Earth Moving Equipment), Competition Forecast &amp; Opportunities, 2012 - 2022</i> .....	63
<i>Global Three Wheeler Market By Vehicle Type (Passenger Carrier Vs. Load Carrier), By Region (Asia-Pacific, Africa, South America &amp; Rest of World), Competition Forecast &amp; Opportunities, 2012 - 2022</i> .....	64
<i>Global Automotive Wiper Motors Market 2017-2021</i> .....	64
<i>Global Motorcycle Braking System Market 2017-2021</i> .....	65
<i>Electric Vehicles and Fuel Cell Vehicles: Global Markets to 2022</i> .....	65
<i>Global Automotive Chassis Sensors Market 2017-2021</i> .....	66
<i>Automotive Motors Market, by Product Type (Direct Current Brushed/Brushless Motors, Stepper Motors), Application (Performance/Comfort/ Motors, Safety Motors), Vehicle Type, Commercial Vehicles, Electric Vehicle Type &amp; Geography - Global Forecast to 2025</i> .....	66
<i>Global Commercial Vehicle Keyless Entry Systems Market 2017-2021</i> .....	67
<i>Global Automotive Brake Components Aftermarket 2017-2021</i> .....	67
<i>Automotive Elastomers Market by Type (Natural Rubber, SBR, Nitrile Elastomer, EPDM, Silicone Rubber, Fluoroelastomer, Styrene Block Copolymers, TPU, TPO, TPV, TPC), Application (Tire and Non-Tire), and Region - Global Forecast to 2022</i> .....	68
<i>Global Hybrid Electric Vehicle Conversion Kit Market 2017-2021</i> .....	68
<i>Global Adventure Motorcycles Market 2017-2021</i> .....	69
<i>Global Automotive Camera Module Market 2017-2021</i> .....	69
<i>OEM Strategies for Particulate Matter (PM) Emission Reduction in Direct Injection Gasoline Engines, 2017-2022</i> 70	
<i>Strategic Analysis of Global Market for Electric Motors for xEVs, Forecast to 2025</i> .....	71

<i>Automotive Pressure Sensors Market by Application (ABS, Airbag, TPMS, Engine, HVAC, &amp; Transmission), Technology (MEMS, Strain Gauge, &amp; Ceramic), Transduction (Piezoresistive, Capacitive, Optical, Resonant), Vehicle, EV, Region - Global Forecast to 2025</i> .....	72
<i>Global Container Stacking Cranes Market 2017-2021</i> .....	72
<i>Global Automotive Speed Sensor Market 2017-2021</i> .....	73
<i>Advanced Driver Assistance Systems (ADAS) Market (By Type: By Technology; By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015 - 2024</i> .....	73
<i>Global Automotive Adhesive Tapes Market 2017-2021</i> .....	74
<i>Global Automotive Displacement Sensor Market 2017-2021</i> .....	74
<i>Growth Opportunities in the Global Automotive Electronic Control Unit Market</i> .....	75
<i>EV Batteries and Materials: Technology, Trends, and Market Forecasts</i> .....	75
<i>Global Analysis of Infotainment and HMI Strategy for Mass Market OEMs, 2017</i> .....	76
<i>Impact of Autonomous Driving on Steering Development Technology in Europe and North America, 2017</i> .....	76
<i>Automotive Lightweight Materials Market (By Material Type: Metals, Plastics, and Composite; By Application, By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015 - 2024</i> .....	77
<i>Global Automotive Instrument Panel Market 2017-2021</i> .....	77
<i>Global Automotive Belt Market 2017-2021</i> .....	78
<i>Global Automotive Telematics Control Unit Market 2017-2021</i> .....	78
<i>Global Motorcycle Engine Management Systems Market 2017-2021</i> .....	79
<i>Global Automotive HVAC Ducts Market 2017-2021</i> .....	79
<i>Global Automotive Curtain Airbags Market 2017-2021</i> .....	80
<i>Global Automotive Airbag ECU Market 2017-2021</i> .....	80

**Automotive Chassis Market by Chassis Type (Backbone, Ladder, Monocoque, Modular), Material (Steel, Aluminum Alloy, Carbon Fiber Composite), Electric Vehicle (BEV, PHEV, HEV), Vehicle Type (PC, CV), and Region - Global Forecast to 2025**

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The automotive chassis market is estimated to be USD 50.78 billion in 2017 and is projected to reach USD 78.44 billion by 2025, growing at a CAGR of 5.59%. Increased need to reduce the emission levels, the need to reduce the vehicle weight for better fuel efficiency, and the increase in sales of commercial vehicles due to increasing industrialization globally are equally contributing to the increasing sales of automotive chassis.

High cost of light weight material and growing trend of shared mobility are anticipated to constrain the growth of automotive chassis market.

Skateboard chassis: Key chassis type to be used in electric vehicles

The skateboard chassis type is expected to show the fastest growth, followed by monocoque chassis. The electric vehicle should be light weight so that the electric motor employed in it can be used to its optimum level. This type of chassis also allows any kind of body to be built over it, which is highly favorable for the OEMs.

**Research Report on Automobile Headlamp Industry in China, 2018-2022**

Published by China Research and Intelligence

Pub. Date 2018/01/08

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Headlamps refer to lighting devices that are installed in both sides of the automobile head and are used for night driving. Since the lighting effect of automobile headlamps has a direct influence on operations and safety of night driving, traffic administrative departments in different countries generally specify lighting standards of headlamps in legal format in order to ensure safety of night driving.

The light of automobile headlamps usually presents white or warm yellow. Initially, incandescent lamps and halogen lamps were used as lighting sources. Since 1990s, incandescent lamps have gradually been wiped out. Instead, high-intensity discharge lamps represented as xenon lamps emerged and became mainstream products along with halogen lamps. Technological progress has contributed to emergence of LED headlamps and laser headlamps. Currently, automobile headlamps are developing towards high direction, high brightness, low energy consumption and intelligence.



## **Global and China Tire Pressure Monitoring System (TPMS) Industry Report, 2017-2021**

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As people have become more aware of driving safety and countries like the United States, EU, South Korea and China (Taiwan, Mainland) introduced mandatory standards on TPMS in recent years, global TPMS market, primarily OEM, has grown steadily. Global TPMS OEM market size was about 47.62 million sets with an installation rate of 50.1% in 2016. The figures for 2021 are expected to reach 81.27 million sets and 77.4%.

As mandatory European laws and regulations are implemented, Europe has surpassed the United States as the region with the largest demand worldwide, while China becomes the world's third largest TPMS market after Europe and the United States by virtue of its enormous automobile market. The three regions seize a market share of 37.1%, 25.4% and 16.1%, respectively.

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

Published by just-auto

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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

## **Global Smart Fleet Management Market 2018-2022**

Published by TechNavio (Infiniti Research Ltd.)

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The smart fleet management market is moderately fragmented due to the presence of well-diversified global and regional vendors. International players have competence over smaller players in terms of features and price. The competitive environment is intensified due to widening product extensions, technological innovations, and M&A. FMS providers adopt inorganic growth strategies by acquiring regional or local players. To attain competitive advantage in the car tracking device market, the players must adopt new technologies and offer differentiated products. Based on the transportation type the market can be segmented into roadways, railroad, marine, and aviation. The roadways transportation segments accounts for major shares of the car tracking device market due to the growing adoption of roadways for international and domestic transportation. FMS aid fleet companies in managing TCO and complying with stringent carbon emission regulations. Also, consumers are leasing out connected vehicles to effectively monitor vehicle health, driving behavior, and location.

Technavio's analysts forecast the global smart fleet management market to grow at a CAGR of 7% during the period 2018-2022.

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

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

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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

## **NVH Testing Market by Application (Environmental Noise, Pass-by-noise, Noise Mapping, Sound Power, Telecom Testing, Sound Quality, Building Acoustics, Human Vibration, Product Vibration), Type, End User, Geography - Global Forecast to 2023**

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The NVH testing market is estimated to be valued at USD 1.72 billion in 2017 and is projected to reach USD 2.21 billion by 2023, at a CAGR of 4.2% between 2017 and 2023. The growth of the NVH testing market is propelled by the adoption of stringent government regulations to reduce noise pollution and increasing demand for automotive and car infotainment system. Emergence of new application areas for NVH testing solutions and advancement in sensor and processor technologies are the key opportunities for the players in the NVH testing market. The major restraint for the NVH testing market is the increasing demand for secondhand and rental NVH testing equipment.

"Power generation to register the highest CAGR during the forecast period"

On the basis of end user, the NVH testing market for power generation is expected to register the highest CAGR between 2017 and 2023. Stringent legislative obligations placing high pressure on OEMs to design and manufacture low noise level equipment is one of the major factors leading to the growth of the NVH testing market for power generation.

**India Automotive Lubricants Market By Vehicle Type (Two-Wheeler, Passenger Car, Light Commercial Vehicle, Tractors & Others), By Lubricant Type, By Base Oil, By Demand Category, By Sales Channel, Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2018/01/02

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[www.giiresearch.com/ce/599124](http://www.giiresearch.com/ce/599124)

According to "India Automotive Lubricants Market By Vehicle Type, By Lubricant Type, By Base Oil, By Demand Category, By Sales Channel, Competition Forecast & Opportunities, 2012 - 2022", India automotive lubricants market is projected to reach \$ 9.6 billion by 2022. Surging demand for automotive lubricants is anticipated on account of increasing sales of vehicles and growing consumer awareness regarding the use and advantages of engine oils and other lubricants. Additionally, rising trend of partnerships between original equipment manufacturers (OEMs) and lubricant manufacturing companies is expected to augment demand for automotive lubricants in India over the next five years. Some of the major players operating in India automotive lubricants market include Indian Oil Corporation Limited, Bharat Petroleum Corporation Limited, Hindustan Petroleum Corporation Limited, Castrol India Limited, Gulf Oil Lubricants India Limited, Tidewater Oil Corporation India Limited, Total Oil India Private Limited, Shell India, Valvoline Cummins Private Limited, and ExxonMobil Lubricants Private Limited, among others. "India Automotive Lubricants Market By Vehicle Type, By Lubricant Type, By Base Oil, By Demand Category, By Sales Channel, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of automotive lubricants market in India:

**India Two-Wheeler Helmet Market By Product Type (Full face, Half Face, Open Face Modular, & Motocross), By Distribution Channel (Showrooms/Specialty Stores, Supermarket/ Hypermarket, Multi-brand Stores), Competition Forecast & Opportunities, 2012-2022**

Published by TechSci Research

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[www.giiresearch.com/ce/599130](http://www.giiresearch.com/ce/599130)

According to "India Two-Wheeler Helmet Market By Product Type, By Distribution Channel, Competition Forecast & Opportunities, 2012-2022", India two-wheeler helmet is forecast to grow at a CAGR of around 25% through 2022. Market growth is anticipated on account of rising awareness among consumers for safety coupled with introduction of advanced safety features in two-wheeler helmets. Moreover, increase in sales of luxury or premium two-wheeler vehicles coupled with rising per capita income is further expected to boost helmet sales in India during the forecast period. "India Two-Wheeler Helmet Market By Product Type, By Distribution Channel, Competition Forecast & Opportunities, 2012-2022" discusses the following aspects of two-wheeler helmet market globally:

- Two-Wheeler Helmet Market Size, Share & Forecast
- Segmental Analysis - By Product Type (Full face, Half Face, Open Face Modular, & Motocross), By Distribution Channel (Showrooms/Specialty Stores, Supermarket/ Hypermarket, Multi-brand Stores, etc.)
- Competitive Analysis
- Changing Market Trends & Emerging Opportunities

**India Electric Passenger Car Market, By Vehicle Type (Hatchback, Sedan, and SUV & MUV), By Drivetrain Technology (PHEV and BEV), By Battery Capacity (<201 Ah and >201 Ah), Competition Forecast & Opportunities, FY2103 - FY2023**

Published by TechSci Research

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[www.giiresearch.com/ce/599128](http://www.giiresearch.com/ce/599128)

According to "India Electric Passenger Car Market, By Vehicle Type, By Drivetrain Technology, By Battery Capacity, Competition Forecast & Opportunities, FY2103 - FY2023", India electric passenger car market is expected to grow at a CAGR of 43% through FY2023, on the back of increasing consumer inclination towards electric vehicles, rising environmental concerns due to high pollution levels and growing technological advancements, which is resulting in higher mileage per charge and decline in electric vehicle prices. Moreover, increasing investments by leading car manufacturers such as Tata Motors, Mahindra & Mahindra, Toyota, etc., in their electric passenger car product lines is further expected to positively affect the country's electric passenger car market in the coming years. Some of the major players operating in India electric passenger car market are Mahindra & Mahindra Limited and Tata Motors Limited. "India Electric Passenger Car Market, By Vehicle Type, By Drivetrain Technology, By Battery Capacity, Competition Forecast & Opportunities, FY2103 - FY2023" discusses the following aspects of electric passenger car market in India:

**Research Report on Automobile Air-Conditioner Industry in China, 2018-2022**

Published by China Research and Intelligence

Pub. Date 2018/01/02

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An automobile air-conditioner system is a device for refrigerating, heating, ventilation and air purification. It can provide comfortable environment for occupants, reduce fatigue strength of drivers and enhance driving safety. An air-conditioner device has been perceived as one of the standards to measure automobile performances.

The automobile air-conditioner industry develops rapidly along with the automobile industry in China. China has been the world's largest producer and distributor of automobiles for 9 years from 2009 to 2017. Its production volume of automobile air-conditioners exceeded 40 million units in 2017, among which more than 20 million was assembled in automobiles that were produced in China. In addition, a large number of air-conditioners were exported to international markets.

According to CRI, foreign-invested enterprises have a prominent advantage in China's automobile air-conditioner market. Especially in the whole-vehicle OEM market, foreign-invested enterprises take up a majority of market shares. Chinese domestic air-conditioner manufacturers tend to cluster in Zhejiang province and Guangdong province.

**India Electric Vehicle Market By Vehicle Type (Three-Wheeler, Two-Wheeler, Passenger Car & Bus), By Drivetrain Technology (Battery Electric Vehicle Vs. Plug-in Electric Vehicle), Competition Forecast & Opportunities, FY2013 - FY2023**

Published by TechSci Research

Pub. Date 2018/01/02

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[www.giiresearch.com/ce/599129](http://www.giiresearch.com/ce/599129)

According to "India Two-Wheeler Helmet Market By Product Type, By Distribution Channel, Competition Forecast & Opportunities, 2012-2022", India two-wheeler helmet is forecast to grow at a CAGR of around 25% through 2022. Market growth is anticipated on account of rising awareness among consumers for safety coupled with introduction of advanced safety features in two-wheeler helmets. Moreover, increase in sales of luxury or premium two-wheeler vehicles coupled with rising per capita income is further expected to boost helmet sales in India during the forecast period. "India Two-Wheeler Helmet Market By Product Type, By Distribution Channel, Competition Forecast & Opportunities, 2012-2022" discusses the following aspects of two-wheeler helmet market globally:

- Two-Wheeler Helmet Market Size, Share & Forecast
- Segmental Analysis - By Product Type (Full face, Half Face, Open Face Modular, & Motocross), By Distribution Channel (Showrooms/Specialty Stores, Supermarket/ Hypermarket, Multi-brand Stores, etc.)
- Competitive Analysis
- Changing Market Trends & Emerging Opportunities

**Indian Commercial Vehicles Market By Vehicle Type (Light, Medium, and Heavy Commercial Vehicles), Competition Forecast & Opportunities, 2023**

Published by TechSci Research

Pub. Date 2018/01/02

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[www.giiresearch.com/ce/599125](http://www.giiresearch.com/ce/599125)

According to "Indian Commercial Vehicles Market By Vehicle Type, Competition Forecast & Opportunities, 2023", India commercial vehicle market is projected to exhibit a CAGR of over 10% by FY2023, on account of increasing infrastructure development projects, growing logistics sector, ease of financing, etc. Moreover, commercial vehicles market is anticipated to become more lucrative, as new models and brands are rolled out in the coming years. Some of the major players operating in India commercial vehicle market are Tata Motors Limited, Ashok Leyland Limited, VE Commercial Vehicles Limited, and Force Motors Limited. "Indian Commercial Vehicles Market By Vehicle Type, Competition Forecast & Opportunities, 2023" discusses the following aspects of commercial vehicles market in India:

- Commercial Vehicles Market Size, Share & Forecast
- Segmental Analysis - By Vehicle Type (Light, Medium, and Heavy Commercial Vehicles)
- Competitive Analysis
- Changing Market Trends & Emerging Opportunities

## **Autonomous Cars: The Race to Develop the First Level 5 Car**

Published by IDATE DigiWorld  
Price

Pub. Date 2018/01/02

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*With new players emerging and rapid advances in key autonomous driving technologies, the car and mobility markets are on the verge of major disruptions that are likely to greatly impact how people travel.*

*This report presents the underlying technologies needed to achieve automation. It describes the different levels of autonomy and evaluates the potential of such vehicles.*

*It also analyses the strategies of carmakers and Internet players, who are, newcomers to the car market.*

*It then reviews the main drivers and barriers to autonomous car deployment on the market and finally presents sales forecasts for fully autonomous cars*

## **Global Automotive Rubber Seal Market By Vehicle Type (PC, LCV, M&HCV, 2W & OTR), By Product Type (Mechanical, Lip Seals, Rotary Seals, etc.), By Region (APAC, Europe & CIS, North America, etc.), Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research  
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*According to "Global Automotive Rubber Seal Market By Vehicle Type, By Product Type, By Region, Competition Forecast & Opportunities, 2012 - 2022", Global automotive rubber seal market is projected to reach \$ 14.5 billion by 2022. Increase in global vehicle production coupled with increasingly stringent fuel-efficiency norms are the major factors fueling growth in the automotive seal market, globally. Some of the major players operating in the global automotive rubber seal market include Parker-Hannifin Corp., Trelleborg Sealing Solutions, NOK Corporation, SKF AB, Dana Incorporated, Federal-Mogul LLC, Freudenberg Sealing Technologies GmbH & Co. KG, ElringKlinger AG, Datwyler Holding Inc., and Flowserve Corporation, among others. "Global Automotive Rubber Seal Market By Vehicle Type, By Product Type, By Region, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of automotive rubber seal market globally:*

- Automotive Rubber Seal Market Size, Share & Forecast
- Segmental Analysis - By Vehicle Type (Passenger car, LCV, M&HCV, OTR and Two-Wheeler), By Product Type (O-Ring Seals, Rotary Seals, Lip Seals and Mechanical Seals), By Region (APAC, Europe & CIS, North America, South America and MEA)
- Competitive Analysis
- Changing Market Trends & Emerging Opportunities

**India Used Car Market By Vehicle Type (Small, Mid-Size & Luxury), By Sector (Organized Vs. Semi-Organized/Unorganized), By Sales Channel (Dealership/Broker Vs. C2C), By Fuel Type (Petrol & Others), Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2018/01/02

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[www.giiresearch.com/ce/599132](http://www.giiresearch.com/ce/599132)

According to "India Used Car Market By Vehicle Type, By Sector, By Sales Channel, By Fuel Type, Competition Forecast & Opportunities, 2012 - 2022", India used car market is projected to reach \$ 96 billion by 2022, on the back of growing population and rising urbanization in the country. Increasing focus of automakers towards setting up used car networks in different parts of the country and growing inclination of consumers towards used cars owing to their affordability and improved after sales services are some of the other major factors expected to boost demand for used cars in India in the coming years. Moreover, market growth is anticipated to be driven by rising penetration of online platforms such as OLX, Quikr, etc., that enable used car dealers to boost their reach to a larger audience. Some of the major players operating in India used car market are Maruti True Value, Mahindra First Choice Wheels, Hyundai H Promise, Das Welt Auto, Ford Assured, Toyota U Trust, Honda Auto Terrace, BMW Premium Selection, Audi Approved Plus, Mercedes-Benz Certified, etc. "India Used Car Market By Vehicle Type, By Sector, By Sales Channel, By Fuel Type, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of used car market in India:

**Brazil Retreading Tire Market By Vehicle Type (Truck, Bus, OTR and Passenger Car), Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2018/01/02

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According to "Brazil Retreading Tire Market By Vehicle Type, Competition Forecast & Opportunities, 2012 - 2022", Brazil retreading tire market is projected to reach \$ 1.1 billion by 2022. Growth in Brazil retreading tire market is predominantly led by increasing tire demand from fleet owners, higher cost benefit of retreaded tires compared to new tires, and technological innovations in retreading tire market. Moreover, environmental concerns coupled with increasing government support to promote the use of retreaded tires is expected to further proliferate demand for retreaded tires in Brazil over the course of next five years. Some of the major players operating in Brazil retreading tire market include Bandag Do Brasil Ltda, Borrachas Vipal S/A, Borrachas Tipler Ltda, Marangoni Tread Latin America, and Moreflex Borrachas Ltda, among others. "Brazil Retreading Tire Market By Vehicle Type, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of retreading tire market in Brazil:

- Retreading Tire Market Size, Share & Forecast
- Segmental Analysis - by Vehicle Type (Passenger Car, Truck, Bus and Off-the-road (OTR)), By Region (South-East, North-East, South, Central-West and North), By Company
- Competitive Analysis
- Changing Market Trends & Emerging Opportunities



## **Global 3PL Market in FMCG Industry 2018-2022**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/29

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Food such as staples, dairy products, confectionary, fresh fruits and vegetables, processed foods, fresh and processed meat, and fish are some of the examples in the food category which are transported by the 3PL players. There is a rise in the sales of packaged food. This mainly due to the busy lifestyles which leave people with no time to cook at home. The change in consumer lifestyle coupled with the easy availability of packaged food is increasing the market for convenience food such as refrigerated appetizers, which in turn is increasing the global packaged food market that is expected to grow at a CAGR of more than 4% during the forecast period.

Technavio's analysts forecast the global 3PL market in FMCG industry 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 3PL market in FMCG industry 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.

## **Smart Parking Technologies and Global Markets**

Published by BCC Research

Pub. Date 2017/12/29

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For the scope of this report, smart parking is defined as a vehicle parking system where a set of hardware devices and software assist the driver finding a parking spot, signaling available locations and assisting the driver in parking the vehicle. Smart parking includes both driver assistance systems (mentioned as "automotive park assist" throughout the report) that are inside the vehicle (such as sensors, display systems, etc.) as well as smart parking equipment and solutions (such as cameras, sensors, etc.) installed in the parking lot (both on-street and off-street) (this is mentioned as "assisted parking" throughout the report).

The report includes information about manufacturers and suppliers of smart parking technology products, and both are discussed and analyzed in the report. Also, the report talks about large companies that offer smart parking sensors and other products. The report also discusses companies that provide smart parking equipment and solutions through partnership with other niche technology providers. Additionally, the coverage includes various strategic initiatives and strengths of companies that are expected to help them move forward in this market.

## **Vehicle Engines And Engine Parts Manufacturing: Global Markets to 2020**

Published by BCC Research

Pub. Date 2017/12/29

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The global market for vehicle engines and engine parts manufacturing reached \$261.3 billion in 2016. This market is estimated to reach \$323.7 billion in 2020 at a compound annual growth rate (CAGR) of 5.5% for 2016-2020.

Report Includes

- 93 data tables and 9 additional tables
- An overview of the global market for vehicle engines and engine parts manufacturing
- Analyses of global market trends, with data from 2012-2016, estimates for 2017 and projections of compound annual growth rates (CAGRs) through 2020
- Coverage about the manufacturing characteristics of vehicle engines and engine parts, and regional and country analysis
- Analysis of factors driving the growth of the industry, including technological advancements in engine manufacturing and rapid urbanization.
- A look at the latest market trends and restraints impacting the market and detailed comparison of the market with macro-economic factors and industry indicators
- Profiles of major players in the industry

## **Global Automotive Navigation Systems Market Report, Analysis and Forecast 2017-2021: Focus on In-dash and Smartphone based Navigation Systems**

Published by BIS Research

Pub. Date 2017/12/29

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The global automotive navigation systems market generated \$20,953.2 million in 2016; the market currently is being driven by the rising concerns towards the global problem of traffic congestion especially in urban areas and changing consumer behavior towards better in-dash features.

The rising concerns regarding the global problem of traffic congestion, especially in the urban areas, and the changing consumer behavior towards better in-dash features are the primary factors driving the demand for the automotive navigation systems. The market for navigation systems has been undergoing constant developments ever since the setting up of the Global Positioning System (GPS) satellites around the Earth's orbit. The market caught significant traction in the late 90s and start of the 21st century due to the introduction of portable navigation systems.

## **Pharmaceutical Logistics Market in North America 2018-2022**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/28

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[www.giiresearch.com/ce/335167](http://www.giiresearch.com/ce/335167)

The pharmaceutical logistics market in North America is significantly fragmented due to the presence of several international and regional pharmaceutical logistics Companies. The companies are competing intensely to offer secured supply chain functions and cloud-based supply chain solutions. The continuous evolution of pharmaceutical products is encouraging the manufacturers to focus on enhancing their product portfolio. The pharmaceutical logistics market in North America can be segmented into two types based on the supply chain, that is, cold chain and non-cold chain. The non-cold chain is more widely used, and the segment is expected to have a higher market share during the forecast period of 2018-2022.

Technavio's analysts forecast the pharmaceutical logistics market in North America to grow at a CAGR of 4.51% during the period 2018-2022.

## **Global Hotel Logistics Market 2018-2022**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/28

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The hotel logistics market is fragmented due to the presence of several international and regional vendors. Hotel logistics providers compete intensely based on price, quality, regulatory compliance, and innovation. Established vendors dominate the market operations in terms of features and price, with the regional vendors struggling to compete with them. To attain competitive advantage in the hospitality logistics market, the vendors offer innovative and technologically driven services and adopt new technologies to upgrade their service offerings. Based on service type the market can be segmented into furniture, fixtures and equipment (FF&E), operating Supplies and equipment (OS&E), and Game Supplies and Equipment (GS&E). The FF&E service type accounts for major shares in the hospitality logistics market due to the importance of contents such as movable furniture, fixtures, or other equipment in a hotel. FFE logistics comprises the interior furnishing of the entire hotel. Hotel logistics providers thoroughly undertake maintaining/replacing, installing, purchasing, and shipping of FF&E. Also, these providers offer reusable furnishing and develop FF&E cash flows.

## **Electric Vehicles for Construction, Agriculture and Mining 2018-2028**

Published by IDTechEx Ltd.

Pub. Date 2017/12/27

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*Electric vehicles for construction, agriculture and mining will be a \$87 billion market in 2028. Komatsu, John Deere, Caterpillar, and others manufacture the big vehicles - mainly hybrid - while other manufacturers offer smaller, pure-electric versions.*

*Pure electric is a legal requirement indoors. Outdoors, fuel saving and better performance attracts. Cranes and man lifters have many applications. Their production volumes are larger than most people realise. So it is with the electric versions set for over 164,000 to be sold in 2028.*

*This is an industry about to change radically. For example, in mining, over 90% of the world's mines are open cast. They are often in remote places up to 4,000 meters above sea level, where shipping diesel can cost more than buying it. Consequently, there is now a move to have 350 kW giant haul trucks working the floor and separately the top of the mine with electric rail-veyors lifting the ore from bottom to top. In an all-electric solution new pollution laws can be met, image improved and money saved, the electricity coming from the mine's own wind turbines and photovoltaics. Battery swapping and fast charging of those batteries means 350 kWh batteries suffice - big but no larger than those in other EV sectors.*

## **Off Grid Electric Vehicle Charging: Zero Emission 2018-2038**

Published by IDTechEx Ltd.

Pub. Date 2017/12/27

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*Elon Musk puts firecrackers under conventional thinking, like Brunel, Edison and other great innovators before him. One little appreciated and less reported aspect of the Musk onslaught is off grid. The decline in off grid electricity production as a percentage of all electricity production is being reversed and part of this is electric vehicle charging stations going off grid and many vehicles becoming their own charging stations from sun, wind etc. For instance, Elon Musk has said that all Tesla charging stations will go off grid using his solar panels, even including the newly announced global network of megachargers, probably punching a megawatt, that will power his giant Tesla Semi trucks worldwide. He also intends that all his vehicles have solar bodywork, Hanergy and others being ahead of him in launching solar cars. The static zero emission charging stations and the Energy Independent Electric Vehicles EIEV will need to make electricity from much more than photovoltaics but new forms of that will be key as well.*

## **The Rise of the Electric Car: How Will it Impact Oil, Power and Metals?**

Published by Greentech Media Inc.

Pub. Date 2017/12/27

Price

USD 2500 PDF by E-mail (Standard License)

[www.gjiresearch.com/ce/597645](http://www.gjiresearch.com/ce/597645)

*This Wood Mackenzie report provides data-driven insight into the impact of global electric vehicle adoption on oil, power and metals markets.*

*Today, electric vehicles make up less than 1% of the 86 million new cars sold in 2016. China drives the sales, followed by Europe and the US.*

*In Wood Mackenzie's base case, 125 million electric vehicles are adopted by 2035, which displaces 1.8 million barrels per day of oil demand and adds 350 terrawatt hours to power demand. However, Wood Mackenzie's carbon-constrained scenario, which reflects trajectories consistent with the Paris Agreement, shows electric vehicles could reach almost 350 million units, or 20% of the total car fleet by 2035. The carbon-constrained scenario would have significant implications for gasoline demand, disrupting oil markets before the power sector.*

## **Global Two-wheeler Wiring Harness Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/21

Price

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*A two-wheeler wiring harness is an assembly of electric wires or cables and other components such as terminals, connectors, and clamps that are used to transfer information and power among the electronic components. The wiring harness is a standard stock fitment in any two-wheeler. It is also known as a wiring loom for the vehicles. Electric wires are tied together using cable ties, electrical tapes, conduits, or a combination of these to form the complete wiring assembly. A two-wheeler wiring harness safeguards the wires against the impacts of vibrations.*

*Technavio's analysts forecast the global two-wheeler wiring harness market to grow at a CAGR of 10.41% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global two-wheeler wiring harness 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 Ignition Coil Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/21

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An ignition coil, also known as a spark coil, transforms the battery's low voltage to high voltage, which is required to produce the electric discharge in spark plugs to ignite the fuel. Few coils will have an internal resistor, while others rely on an external resistor to limit the current flow in the coil. Spark plug wires are those that connect the ignition coil and the distributor, and the high voltage wire connects the distributor to each spark plug. Earlier, mechanical contact breaker points and a capacitor were required for ignition coil systems.

Technavio's analysts forecast the global automotive ignition coil market to grow at a CAGR of 5.10% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive ignition coil 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 Torque Converter Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/21

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[www.giiresearch.com/ce/361574](http://www.giiresearch.com/ce/361574)

The torque converter is a modified fluid coupler/hydraulic coupler, like a clutch, that is placed between the engine and the transmission, which changes the mechanical torque. It helps in multiplying the torque at low speeds or during the periods of high engine loads. It also absorbs the torsional vibrations of the engine. A torque converter is usually placed between the flexplate and the transmission. It allows the transmission to be separated from the engine, which means there is no physical contact between the engine and the transmission.

Technavio's analysts forecast the global automotive torque converter market to grow at a CAGR of 4.54% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive torque converter 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 Variable Intake Air Control Valve Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/21

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Automotive variable intake air control (AVIAC) valve is an electrically controlled device, commonly used in fuel injected vehicles. In most cases, the air control valve is located on the throttle bore and is designed to vary the engine air intake at the idle driving condition. The power-train control module (PCM) receives feedback data from various sensors to send output signals designed to adjust the air passage that adjusts the engine idle speed. At engine speeds above idle, the valve is not used and does not affect the engine.

Technavio's analysts forecast the global automotive variable intake air control valve market to grow at a CAGR of 5.90% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive variable intake air control valve 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 Roof Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/21

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[www.giiresearch.com/ce/599229](http://www.giiresearch.com/ce/599229)

The early automobiles were designed during the period of horse-drawn carriages. Most of the initial stages of roof designs were influenced by the designs from the carriages. During 1896, there were no roofs, windshields, doors, or side glass for the cars made by Henry Ford. After several technological evolutions, a fixed roof and, subsequently, retractable roofs came into being. The roof of an automobile protects the occupants of the vehicles from sun, wind, rain, and other external elements.

Technavio's analysts forecast the global automotive roof systems market to grow at a CAGR of 3.03% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive roof systems 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 Cooling System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Combustion engines generate large amounts of heat during their operations, which is generated when the engine of a vehicle transforms mechanical energy into chemical energy. About 70% of the energy produced is converted into heat energy. Hence, powertrain cooling systems are used for maintaining the temperature of a vehicle within specified limits. Automotive powertrain cooling systems prevent the engine from over-heating by effectively transferring heat into the atmosphere. However, heat is necessary for the effective functioning of the engines, hence powertrain cooling systems allow the vehicle to maintain the temperature of the vehicle within specified limits.

Technavio's analysts forecast the global automotive powertrain cooling system market to grow at a CAGR of 7.18% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive powertrain cooling 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.

## **IDC PeerScape: Practices for Deploying Service Robotics in Logistics**

Published by IDC

Pub. Date 2017/12/20

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USD 4500 PDF by E-mail (Single User License)

[www.giiresearch.com/ce/596114](http://www.giiresearch.com/ce/596114)

This IDC PeerScape explores four key practices that organizations should consider when preparing to deploy robots in their logistics processes, especially if they are looking at robots for the first time. "Robotic technology has evolved to a point where robots are capable of safely operating in close proximity and even in collaboration with humans," says John Santagate, research director, Service Robotics at IDC. "These devices are enabling warehousing and fulfillment processes in logistics operations to achieve next-level process improvements. Organizations considering robotics in their logistics operations should leverage this study to help ensure a successful deployment of robotics."

### TABLE OF CONTENTS

- IDC PeerScape Figure
- Executive Summary
- Peer Insights
- Learn More



**Transmission Repair Market by Component (Gasket & Seal, Fluid, O-ring, Transmission Filter, Gear, Clutch Plate, Pressure Plate, Oil Pump), Repair type (Transmission General Repair, Overhaul), Vehicle Type, and Region - Global Forecast to 2022**

Published by MarketsandMarkets

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[www.giiresearch.com/ce/596036](http://www.giiresearch.com/ce/596036)

The transmission repair market is projected to reach a market size of USD 233.70 billion by 2022 from USD 199.16 billion in 2017, growing at a CAGR of 3.25% from 2017 to 2022. Increasing vehicle parc, the growth of ride sharing, and an increase in average vehicle miles traveled are the key factors driving the growth of the transmission repair market. On the other hand, the increasing sales of electric vehicles can hinder the growth of the transmission repair market.

"The fluids segment is estimated to be the fastest growing segment"

The fluids segment is estimated to be the fastest growing segment of the transmission general repair market, in terms of value. The adoption of preventive/periodic maintenance services for transmission is expected to drive the fluids market during the forecast period. The increase in oil consumption in advanced transmission and focus on better quality oil are driving the growth of this segment. The average fluid consumption is 5 to 7 quarts. The OE companies are focusing on high-quality oil for increasing transmission efficiency and also to reduce the frequent change of oil in transmission.

**Global Automotive Filters Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

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USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595559](http://www.giiresearch.com/ce/595559)

The global automotive filters market is diverse, and manufacturers focus on technological innovations to improve the efficiency of vehicles. Filters are primarily used for removing dust particles, minerals, and other impurities that enter the engine through oil, cabin, or the fuel. Clean fuel significantly enhances engine power, improves efficiency, helps achieve fuel economy, and reduces carbon emissions. In addition, filtered and clean oil ensures smooth functioning of engine parts and prevents them from wearing out. Factors such as the rising concerns over fuel efficiency and the implementation of stringent fuel emission norms are likely to drive the global automotive filters market during the forecast period.

Technavio's analysts forecast the global automotive filters market to grow at a CAGR of 7.85% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive filters 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 Augmented Reality and Virtual Reality Market 2017-2021**

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[www.giiresearch.com/ce/595550](http://www.giiresearch.com/ce/595550)

Augmented reality (AR) is a technology that adds on or layers digital media, such as touch feedback, graphics, 3D models, and sound, on a real world environment to enhance user experience and interaction. Virtual reality (VR) is a computer simulated reality that is achieved through replicating an environment into an interactive three-dimensional experience to a user. The global automotive AR and VR market covers automotive AR and VR technology used (in research stage) in heads-up display (HUD), design, and prototype of automotive and virtual automotive showrooms.

Technavio's analysts forecast the global automotive augmented reality and virtual reality market to grow at a CAGR of 98.11% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive augmented reality and virtual reality 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.

## **Micro EVs, e-Bikes, e-Scooters, e-Motorbikes, Mobility for Disabled 2018-2028**

Published by IDTechEx Ltd.

Pub. Date 2017/12/20

Price

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USD 7795 PDF Download (6-10 Users) and 1 Hardcopy

[www.giiresearch.com/ce/339797](http://www.giiresearch.com/ce/339797)

Small manned electric vehicles - e-bikes to car-like micro EVs - are closely related and often sell in the largest numbers. The rag bag of names obscures the fact that they are closely related and add up to a very large market. Although car-like micro EVs are usually lower in cost than regular cars, together with two wheel EVs, they will reach over \$41 billion in 2028 on IDTechEx analysis. Eight sub-categories are forecasted by numbers and value from 2018-2028. Golf cars are seen to be a static market, whereas e-motorcycles are at a very early stage and the others in different stages of maturity. Nearly all are pure electric using batteries as energy storage. Most are on-road vehicles so the commonality shines through.

These manned small vehicles below cars are uniquely significant in addressing megatrends and in pioneering energy independent, unlimited travel. Mobility vehicles for the disabled cope with the ageing of the population and the epidemic of obesity whereas car-like micro EVs help emerging nations be mobile and prevent air pollution. Many of these small electric vehicles act as the missing affordable transition product between an e-bike and an e-car.

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

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595557](http://www.giiresearch.com/ce/595557)

Engine oil cooler is a component of engine cooling system that is responsible for drawing out unnecessary heat out of the engine which allows the engine to run efficiently. This helps in extending the life of both vehicle's engine and lubricant oil. Engine oil cooler is either located between the oil filter and the engine block or on the back side of the radiator, which is a principal heat exchanger. It also maintains consistent oil supply at an optimal temperature across the engine block, thus improving the engine's overall life cycle.

Technavio's analysts forecast the global automotive engine oil cooler market to grow at a CAGR of 10.74% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive engine oil cooler 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 Engine Heater Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595556](http://www.giiresearch.com/ce/595556)

An engine heater warms an automotive engine and helps in the start and warm up of the engine in a shorter period, which normally takes longer in extreme cold weather conditions. The most common type of engine heater used in automotive application is the electric heating element in the cylinder block. This heating element is connected through a power cord routed through the vehicle's grille. This type of heater is known as engine block heater and replaces one of the engine's core plugs. The heater element is immersed in the engine's coolant, which keeps most parts of the engine warm.

Technavio's analysts forecast the global automotive engine heater market to grow at a CAGR of 3.70% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive engine heater 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 Fuel Injector Market 2017-2021**

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Fuel injector is a device designed to inject the engine system with the right amount of fuel at high pressure through a small nozzle, causing atomized fuel flow to the engine. Therefore, the air-fuel mixture is always balanced with the driving conditions. Fuel injectors like carburetors is a mechanical device operated by electronic sensors to optimize the performance of the engine in any driving conditions by maintaining the ideal air-fuel ratio. Fuel injectors are located at every cylinder in the engine.

Technavio's analysts forecast the global automotive fuel injector market to grow at a CAGR of 2.46% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive fuel injector 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 IC Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/312453](http://www.giiresearch.com/ce/312453)

IC (Integrated circuits) is a set of electronic components and circuits on a semiconductor material normally silicon. These integrations of large numbers of transistors into small chip results into an order of magnitude smaller, cheaper, and faster as compared to discrete electronic components. ICs are defined by the size of individual component and the density of each component. The feature size for IC refers to the smallest dimension in the device. Ideally, ICs will have dimensions of tens of nm. The demand for ICs in automotive is increasing due to the growing concern of safety and governments regulations. The automotive IC suppliers face challenges like high voltage capability, protection against short circuit, unfavorable temperature, good electromagnetic capability.

Technavio's analysts forecast the global automotive IC market to grow at a CAGR of 6.61% during the period 2017-2021.

Covered in this report

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

## **Global Commercial Vehicle Airbag Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

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[www.giiresearch.com/ce/595553](http://www.giiresearch.com/ce/595553)

Airbags are automotive safety features in vehicles that have been engineered to inflate at a rapid speed during the event of an accident. The inflated airbags help in protecting the in-vehicle occupants in the event of a crash. Thus, these are categorized under automotive passive safety features. The commercial vehicle OEMs, both LCVs and HCVs, have been continuously working on both the active as well as passive safety systems in their vehicles in order to make their offerings safer and in line with the stringent regulations on driver and passenger safety in automobiles across the geographies.

Technavio's analysts forecast the global commercial vehicle airbag systems market to grow at a CAGR of 2.97% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicle airbag systems market for 2017-2021. To calculate the market size, the report considers the unit shipments of commercial vehicle airbag systems across the geographies.

## **Analysis of the Global Automotive Refinish Coatings Market, Forecast to 2023**

Published by Frost & Sullivan

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*Increasing Number of Vehicles in Operation and Growing Urban Population in Asia-Pacific and Latin America Drive Demand*

Automotive coatings is one of the key industries of leading economies that supplies to end-use segments such as original equipment manufacturers (OEMs) and refinishing body shops. Cars once sold by OEMs to individual customers may require refinishing services due to paint damages caused by accidents / collisions or to give the car body an entirely new appearance. Coatings used for such purposes are collectively referred to as automotive refinish coatings in this study.

Table of Contents

1. EXECUTIVE SUMMARY
2. MARKET OVERVIEW
3. DRIVERS AND RESTRAINTS-TOTAL AUTOMOTIVE REFINISH COATINGS MARKET
4. FORECASTS AND TRENDS-TOTAL AUTOMOTIVE REFINISH COATINGS MARKET
5. MARKET SHARE AND COMPETITIVE ANALYSIS-TOTAL AUTOMOTIVE REFINISH COATINGS MARKET
6. GROWTH OPPORTUNITIES AND COMPANIES TO ACTION
7. IMPLICATIONS OF KEY TRENDS
8. NORTH AMERICA BREAKDOWN
9. EUROPE BREAKDOWN
10. ASIA-PACIFIC BREAKDOWN
11. REST OF WORLD BREAKDOWN
12. THE LAST WORD
13. APPENDIX

## **Global and China Automotive Fuel Tank Industry Report, 2017-2021**

Published by ResearchInChina

Pub. Date 2017/12/19

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USD 4100 PDF by E-mail (Enterprisewide license)

[www.giiresearch.com/ce/396675](http://www.giiresearch.com/ce/396675)

Global automotive fuel tank market size was about 93.50 million sets in 2016, up 3.8% year on year. Under the twin impact of steady growth in the automobile market and a rapid rise in new energy vehicle, the world's automotive fuel tank market will grow at an average rate of around 3.2% between 2017 and 2021, reaching 110 million sets in 2021.

China, a big producer of automobiles and the largest consumer of fuel tanks worldwide, had an automotive fuel tank market size of approximately 28.05 million sets in 2016, 30.0% of the world's total. The figures are expected to attain 35.76 million sets and about 32.6% in 2021.

Because of high safety, light weight, anti-corrosion and easy forming and the country's policies on auto environmental friendliness and light-weight, plastic fuel tank now takes the lion's share, up to roughly 80% worldwide and 71% in China in 2016. The share will continue to rise, expected to reach 88% globally and 81% domestically in 2021.

## **Global All Wheel Drive (AWD) E-bikes Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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The all-wheel drive (AWD) concept refers to the energy that is transferred to both the wheels of the bicycle through various methods. AWD e-bikes are similar to normal e-bikes. AWD is a drive-assist system, which makes long journeys or steep climbing less arduous. The AWD drive-assist market holds a major attraction for performance cyclists, daily commuters, elderly people, environment conservative people, and a few others. Most of the market demand stems from developed countries as it is not a necessity. A major part of the sales volumes is expected from Europe and Asia-Pacific.

Technavio's analysts forecast the global all wheel drive (AWD) E-bikes market to grow at a CAGR of 8.48% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global all wheel drive (AWD) E-bikes 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 Mass Air Flow (MAF) Sensors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595538](http://www.giiresearch.com/ce/595538)

MAF sensors are used in automobiles with fuel-injected internal combustion engine. It is used to find out the mass flow rate of the air entering the engine. The awareness of the ECU regarding the air mass will enable it to balance and deliver the required fuel mass to the engine. The report encompasses the MAF sensors that are used in vehicles with an internal combustion engine. MAF sensors are of two types: Hot wire sensors or hot film sensors, which work based on the change in electric current that is passed to balance the temperature, and vane meter sensors.

Technavio's analysts forecast the global automotive mass air flow (MAF) sensors market to grow at a CAGR of 3.02% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive mass air flow (MAF) 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.

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## **Global Automotive Fog Lights Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Fog lights are low-mounted front lights in addition to headlights. Their purpose is to illuminate the area close to the front of a vehicle in poor/low visibility conditions. A fog light is mounted low on the front end of a vehicle to make lane identification clear for the driver and while cornering. Poor visibility is one of the major factors for accidents. Therefore, fog lights are used in vehicles as a safety feature. Adaptive fog lights have the ADAS feature and help in illuminating corners/turns in poor visibility conditions.

Technavio's analysts forecast the global automotive fog lights market to grow at a CAGR of 3.32% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive fog 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.

## **Global Automotive Knock Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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A knock sensor is a piezoresistive sensor where the signal is varied based on the amount of force or pressure applied to it. The knob-like part that is linked to the car's engine helps in sensing engine knock. Knocking or simply called as knock occurs in spark ignition internal combustion (IC) engines when the combustion of the air-fuel mixture in the cylinder does not start off correctly in response to ignition by the spark plug. Knocking occurs in diesel engines also but in a different way. In diesel engines, during cold starting conditions, there would be improper vaporization in the cylinder, which results in accumulation of fuel droplets.

Technavio's analysts forecast the global automotive knock sensor market to grow at a CAGR of 3.76% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive knock sensor 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 Dashboard Camera Market 2017-2021**

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[www.giiresearch.com/ce/595540](http://www.giiresearch.com/ce/595540)

An automotive dashboard camera is an onboard camera, which continuously records the surrounding view through vehicle's windshield. It can capture video evidence during vandalism, even when the vehicle is parked. Dashboard cameras are usually placed on the top of the vehicle's dashboard or to the interior windshield. The sales and demand for automotive dashboard cameras have been increasing since 2014, across all the regions, as an effective device to determine the cause of an accident.

Technavio's analysts forecast the global automotive dashboard camera market to grow at a CAGR of 13.22% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive dashboard camera 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.



**Transfer Case Market by Drive Type (Chain, Gear Driven), Shift Type (Electronic, Manual), Type (AWD, 4WD), Off-Highway (Construction Equipment, Farm Tractor), Ice & Hybrid Vehicle (Passenger Car, LCV, HCV, HEV, PHEV), Region - Global Forecast to 2025**

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[www.giiresearch.com/ce/595442](http://www.giiresearch.com/ce/595442)

The transfer case market is estimated to be USD 9.79 billion in 2017 and is projected to grow to USD 20.33 billion by 2025, at a CAGR of 9.56% during the forecast period. The increasing sales of SUVs and premium sedans is the key growth driver for the transfer case market. The increasing demand for safety and traction in extreme weather or surface condition and need for easy maneuverability are other factors driving the demand for AWD and 4WD across the globe. The increasing demand for AWD and 4WD would, in turn, fuel the demand for transfer case market. On the other hand, the increasing demand for battery electric vehicles can hinder the growth of the transfer case market. As BEVs do not use a transfer case for power distribution, the increasing popularity of these vehicles will impact the growth of the transfer case market in the long term.

**Global Automotive Aftermarket for Spark Plugs 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/19

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[www.giiresearch.com/ce/595546](http://www.giiresearch.com/ce/595546)

A spark plug is an important component of a vehicle that is screwed into the engine cylinder. It generates a spark that ignites the compressed air-fuel mixture, which ensures the continuous movement of the piston. There has been an increased demand for fuel-efficient and low-emission vehicles because of the stringent emission norms adopted across all economies and the growing awareness about environmental issues among consumers. This has led to the continuous evolution of spark plugs.

Technavio's analysts forecast the global automotive aftermarket for spark plugs to grow at a CAGR of 4.03% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive aftermarket for spark plugs for 2017-2021. To calculate the market size, the report considers the aftermarket sales volume of the automotive spark plugs.

## **Global Automotive Valvetrain System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595535](http://www.giiresearch.com/ce/595535)

An automotive valvetrain system is a mechanical system that enables control over valves in an engine. Valves are used for regulating fuel and air flow in cylinders and facilitate combustion. Components of valvetrain system are: Camshafts, Lifters, Pushrods, Rocker arms, and Valves. Automotive manufacturers are increasingly downsizing engines to ensure compliance with fuel efficiency standards and emission regulations. This has led to the elimination of various components such as tappets, valves, and pushrods in the valvetrain.

Technavio's analysts forecast the global automotive valvetrain system market to grow at a CAGR of 3.01% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive valvetrain 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 Motorcycle Twin Cylinder Engine Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595531](http://www.giiresearch.com/ce/595531)

Motorcycle engines are used to power the motorcycles. Two-stroke or four-stroke internal combustion engines (ICE) are used in the motorcycles. The majority of existing motorcycles use internal combustion engines that utilize the energy released by burning fuel to turn a crankshaft. The twin cylinder engine is the most popular type of engine used in motorcycles and automobiles. It consists of two cylinders configured to rotate the crankshaft, and each piston present in the twin cylinder engine revolves the crankshaft at an angle of 360°.

Technavio's analysts forecast the global motorcycle twin cylinder engine market to grow at a CAGR of 16.87% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global motorcycle twin cylinder engine market for 2017-2021. To calculate the market size, the report considers the mid-segment motorcycles with engine displacement between 201cc and 500cc and premium motorcycles with engine displacement more than 500cc.

## **Global Automotive Active Safety System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595543](http://www.giiresearch.com/ce/595543)

Active safety systems are incorporated in automobiles. These systems help in preventing the risk of collisions or accidents. These systems consist of electronics and computer-controlled components. These include braking systems such as brake assists; traction control system (TCS); electronic stability control (ESC) and forward-looking, sensor-based system such as Advanced Driver Assistance Systems (ADAS); adaptive cruise control (ACC); and collision warning (CW); and avoidance, and mitigation systems. These help drivers in interpreting signals from various sensors, which, in turn, facilitate better controlling of vehicles.

Technavio's analysts forecast the global automotive active safety system market to grow at a CAGR of 12.49% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive active safety 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 Performance Engine Bearings Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/595541](http://www.giiresearch.com/ce/595541)

A bearing needs a different mix of properties: it is hard enough to resist wear but soft enough not to damage the shaft. The bearing also restricts any deposits or particles in the film of oil to erode the shaft or the crank surface. It is a mixture of metals, which make a balance between hardness and softness. Bi-metal aluminum engine bearings are most recommended in factory-fit engines as these are lead-free and less expensive to produce than a tri-metal lead-copper bearing. The bi-metal bearings can last over 200,000 miles in most of the stock fitment cases; though the life of the bearing does depend on the maintenance of and quality of driving the vehicle.

Technavio's analysts forecast the global automotive performance engine bearings market to grow at a CAGR of 6.10% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive performance engine bearings 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 and China Automotive Electric Motor (Small Motor/ Starter and Generator/ NEV Motor) Industry Report, 2017-2021**

Published by ResearchInChina

Pub. Date 2017/12/18

Price

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[www.giiresearch.com/ce/250593](http://www.giiresearch.com/ce/250593)

Global automobile production and sales have been on the steady rise in recent years, arriving at 94.977 million units and 93.856 million units in 2016, respectively, a year-on-year rise of 4.7% for both, and are expected to reach 96.90 million units and 95.60 million units separately in 2017.

As the world's largest automobile market, China recorded 26.00 million units in production and 25.84 million units in sales in the first eleven months of 2017, up 3.9% and 3.6% over the same period of last year. Full-year figures expectedly reach 28.75 million units and 28.57 million units, occupying 29.7% and 29.9% of the world's total, respectively.

Thanks to steady growth of the automobile market, global automotive motor shipments totaled about 3.713 billion units in 2016 and are expected to reach 3.969 billion units in 2017. As automobile goes intelligent and new energy vehicles develop, the world's automotive motor shipments will maintain a rapid growth rate, hitting an estimated 5.61 billion units in 2021.

Body motor takes the lion's share, as roughly 24 units are used on each car on average. Global shipments of body motor were approximately 2.31 billion units, 62.2% of total automotive motor shipments. As car configurations become more advanced, body motor use will continue to rise, attaining 30 units per vehicle in 2021 when worldwide body motor shipments are projected to hit 3.21 billion units.

## **The European Tires Market, 2012 - 2022: Market size, market forecast and recommendations**

Published by GlobalData

Pub. Date 2017/12/18

Price

USD 3450 PDF by E-mail (Single user license) ~

USD 10350 PDF by E-mail (Global license)

[www.giiresearch.com/ce/447301](http://www.giiresearch.com/ce/447301)

"The European Tires Market, 2012 - 2022", a Trend Report by GlobalData, provides an executive-level overview of the European tires market today, with forecasts of values and volumes up to 2022. It delivers deep quantitative and qualitative insight into the European tires market, analyzing key trends in the market based on proprietary data from GlobalData's aftermarket databases.

It provides in-depth analysis of the following -

- Market volumes generally grew between 2012 and 2017 with relatively few markets stagnating and even fewer declining.
- Volumes have largely been dictated by relatively steady three-year replacement cycles, although with many motorists deferring tire replacement, particularly in the earlier years of the decade, growth was initially restricted.
- This position has now changed, and all markets except Greece and Slovenia recorded growth over the five year period.
- Over the next five years, many of Europe's major tire markets are expected to show small increases in value, as markets continue to recover, sales of new vehicles continue to rise and the parc simultaneously grows and ages....

## **Global Automotive Heads-up Display Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/18

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/260040](http://www.giiresearch.com/ce/260040)

A head-up display (HUD) shows information about the vehicle directly on the windshield that is positioned in front of the driver's line of sight. It was earlier developed in the aviation industry for pilots to look for information by keeping their heads up and straight rather than looking down at lower instruments for information. There are primarily two types of automotive HUDs: Combiner-projected HUDs and windshield-projected HUDs.

Technavio's analysts forecast the global automotive heads-up display market to grow at a CAGR of 34.09% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive heads-up display 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 Stamped Components Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/18

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595526](http://www.giiresearch.com/ce/595526)

Stamping (also known as pressing) is the process of placing flat sheet metal into a stamping press where a tool and die surface form the metal into a net shape. Stamping includes a variety of sheet-metal forming manufacturing processes, such as punching using a machine press or stamping press, blanking, embossing, bending, flanging, and coining. The various stamped components in the automotive industry are A-pillar, C-pillar, and cowl panel firewall. The stamping components are the finished products and ready to be installed in a vehicle.

Technavio's analysts forecast the global automotive stamped components market to grow at a CAGR of 4.09% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive stamped components 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 Coolant Hose Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595527](http://www.giiresearch.com/ce/595527)

Automotive coolant hose, also commonly known as a radiator hose, is an integral part of an engine's cooling system. The coolant is brought into and out of the radiator by the coolant hoses. There are two coolant hoses, one placed above the radiator and the other placed below the radiator. A coolant is passed through the tubes of the radiator hose to cool down the engine and dissipate the excess heat. The hot coolant then passes through the inlet tank of the radiator, generally located on the top of the radiator, it then passes through the tubes of the radiator. As the coolant passes through the tubes of the radiator, it dissipates the excess heat and thus maintains the optimal efficiency of the engine.

Technavio's analysts forecast the global automotive coolant hose market to grow at a CAGR of 3.77% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive coolant hose market for 2017-2021. To calculate the market size, the report considers the new installations/shipments/sales/volume.

## **Global Automotive Exhaust Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/18

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/329241](http://www.giiresearch.com/ce/329241)

The global automotive exhaust systems market depends on various factors such as demand for vehicles, vehicle performance, government regulations governing the market, and increasing health concerns due to the emission of harmful gases by vehicles. These factors significantly affect the market. High penetration of passenger cars in emerging countries are increasing the demand for exhaust systems as every car sold has an integrated exhaust system. However, in developed regions, the automotive market is shifting toward fully autonomous vehicles. Such vehicles aim to cut down on emissions, which is expected to decrease the adoption of internal combustion engines and exhaust systems.

Technavio's analysts forecast the global automotive exhaust systems market to grow at a CAGR of 4.08% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive exhaust systems market for 2017-2021. To calculate the market size, the report considers the volume.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/18

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595524](http://www.giiresearch.com/ce/595524)

Engine valves regulate the inlet and outlet operation of gases in the combustion chamber of an automotive engine. The engine valves are highly regulated components and are responsible for an efficient combustion. The automotive internal combustion (IC) engine is an evolving component. Automotive OEMs across the world are largely focusing on increasing IC engine's efficiency to reduce the environmental pollution caused due to vehicular emissions. As per technology experts, every moving component in an IC engine needs to be optimized in terms of weight, material quality, and life to improve an engine's efficiency.

Technavio's analysts forecast the global automotive engine valves market to grow at a CAGR of 2.58% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive engine valves market for 2017-2021. To calculate the market size, the report considers the new installations of engine valves only.

## **Global Automotive Cabin Insulation Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595525](http://www.giiresearch.com/ce/595525)

The noise, vibration, and harshness (NVH) design of any vehicle depends mainly on application and segment of the vehicle. The NVH reduction is intended for making the ride quality better for the occupants of the vehicle. The cabin refinement or insulation is the part of NVH design quality. The cabin can be made silent by close analysis of the NVH transfer paths. The transfer path and the engine capacity are the major design imbedded consideration for the cabin refinement. The components considered for the entry channels are engine bay, dash panel, floor, roof, doors, trunk bay, windshield, and structural members.

Technavio's analysts forecast the global automotive cabin insulation market to grow at a CAGR of 5.57% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive cabin insulation 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 Power Folding Mirror Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595511](http://www.giiresearch.com/ce/595511)

A power folding mirror is a type of outside rear-view mirror (ORVM) equipped with electrical means for horizontal and vertical adjustment from inside the vehicle. This feature helps to fit the vehicle in tight parking spaces or as a safety feature while driving through an automatic car wash. The power folding mirrors can be operated via the mirror button on the driver's door. An automatic mode can also be selected to fold the mirrors automatically when parked. These mirrors are equipped with electrical means for vertical and horizontal adjustment from inside the vehicle. The glass of a power folding mirror can also be electrically heated to keep it away from fogging.

Technavio's analysts forecast the global automotive power folding mirror systems market to grow at a CAGR of 10.16% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive power folding mirror systems 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 In-vehicle Payment Services Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595502](http://www.giiresearch.com/ce/595502)

Continuous advances in the connected vehicle technologies and IoT has led to the movement of mobile wallets to the dashboards as OEMs are now partnering with the card networks and various retailers to equip their vehicle offerings with in-vehicle payment technology. This technology enables the driver to pay for certain services and products without even having to get down from the car, which include payment for parking services, fuel, various drive-thru restaurants, and many others. In addition, tech giants such as Amazon and Google are bringing their popular voice assistants in vehicles, which further facilitates the driver to buy products while they are behind the wheels.

Technavio's analysts forecast the global in-vehicle payment services market to grow at a CAGR of 195.39% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global in-vehicle payment services 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 Brake Rotors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595497](http://www.giiresearch.com/ce/595497)

Automotive brake rotors are the flat, round piece of metal, onto which brake pads clamp down to stop the vehicle. The brake rotors form an important part of the vehicle's braking system and are also known as discs in the automotive terminology. Brake rotors for automotive applications have witnessed significant improvements in the past couple of decades, wherein the rotors are developed using advanced materials.

Technavio's analysts forecast the global automotive brake rotors market to grow at a CAGR of 3.12% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive brake rotors 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 Electric Vehicles Market, Analysis & Forecast 2017-2026: Focus on Battery, Motor Regenerative Brake, Battery Electric Vehicle and Passenger Car Application**

Published by BIS Research

Pub. Date 2017/12/15

Price

USD 4499 Unprintable PDF by E-mail (Single User License) ~

USD 6999 Printable PDF by E-mail (Enterprise-wide License)

[www.giiresearch.com/ce/593765](http://www.giiresearch.com/ce/593765)

Increasing global concerns regarding the negative effect of climate change along with alarming pollution levels recorded in the major cities have created a demand for electric vehicles. A major factor behind the growth of electric vehicles is the support provided by various governmental agencies to encourage the sale of these vehicles. Furthermore, the well-established road infrastructure network has further aided the market for these vehicles, with charging points available more frequently on the civilian roads. Today, electric vehicles have transformed from an experimental mode of vehicle to a necessity, with automakers worldwide putting in efforts to make EVs available in all the economic ranges. This is evident from the meteoric rise in its sales over the last five years, with over 2 million electric vehicles on the road at present, as compared to a few thousands back in 2012. With number of initiatives and product developments taking place, it won't be long before EVs occupy a significant share of the global automotive market. The market in terms of volume is estimated to witness growth at a CAGR of 28.3% over the period of 2017 to 2026. The report is a compilation of various segmentations including market breakdown by propulsion type, component type, vehicle type, and different geographical regions.

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## **Global Automotive Steering Angle Measurement Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595522](http://www.giiresearch.com/ce/595522)

*In the automotive industry, sensors are used to detect, measure, and transmit the data or information by continuously analyzing the performance of the vehicle. Automotive steering angle measurement sensors monitor and calculate the steering wheel movement. These sensors are placed along the steering column or the rack, depending upon the type of sensor, i.e., rotary or linear. These sensors continuously monitor the steering characteristics in relation to the chassis movement. The purpose of these sensors is to assist the driver in steering the vehicle by determining the intended direction of steering.*

*Technavio's analysts forecast the global automotive steering angle measurement sensor market to grow at a CAGR of 6.68% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive steering angle measurement sensor 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 Two-wheeler Keyless Entry System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595506](http://www.giiresearch.com/ce/595506)

*Keyless entry systems eliminate the use of mechanical keys. Thus, they offer better security and convenience to two-wheeler owners. These systems replace the key with an ignition button and conventional ignition lock with a transponder fob (with a flip-out key for backup). In addition, keyless entry systems allow the locking and unlocking of the steering lock and fuel filler flap. In some models, such as BMW and BMW GT/GTL, the storage compartments locks are controlled by the transponder. The penetration of keyless entry systems in the OEM market is low, and only few luxury two-wheelers are equipped with such systems. In addition, keyless entry systems are provided by OEMs in most of the models as an optional feature. However, OEMs will be equipping more models with this system during the forecast period, as the technology matures. Most of the demand for keyless entry systems is arising from the aftermarket segment, as the product is cheaper.*

*Technavio's analysts forecast the global two-wheeler keyless entry system market to grow at a CAGR of 10.43% during the period 2017-2021.*

**Global ATV Lighting System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595498](http://www.giiresearch.com/ce/595498)

An all-terrain vehicle (ATV), also known as a quadricycle or a quad bike, is designed to travel through diverse types of terrains compared to other on-road automobiles. The vehicle has four wheels with low-pressure tires, and the handlebar is used to control the speed and steering. Depending on the size, there can be up to 4 seat occupancies in the vehicle. These vehicles are made of plastic or fiberglass, fitted with hard tires to drive through any type of off-road terrains.

Technavio's analysts forecast the global ATV lighting 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 ATV lighting 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 Torque Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595517](http://www.giiresearch.com/ce/595517)

A sensor picks up stimulus changes in its immediate environment and updates the system electronically. Sensors are engineered to detect chemical, physical, and process changes. A torque sensor or a torque transducer measures the torque acting upon a rotating system or mechanism in machinery, such as an engine, crankshaft, gearbox, transmission, steering, and others. Torque sensors can measure all the components of torque system acting along the six axes of the rotating systems of a vehicle.

Technavio's analysts forecast the global automotive torque sensor market to grow at a CAGR of 3.90% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive torque sensor 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 Body Control Module Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595503](http://www.giiresearch.com/ce/595503)

The body control module (BCM) monitors the various driver switches and controls power to corresponding loads in a vehicle. A vehicle could have single or multiple BCMs to monitor and control the switches, sensors, and automatic reactions. BCM plays a crucial role in controlling interior electronics. The increasing use of electronic components in automotive will increase the use of BCMs. With the increase in the number of electronic components in automobiles, the control becomes complicated. Therefore, there is an increased need for a separate control module for the automotive parts to organize the electronic content effectively. The increasing need for safety and comfort is one of the main reasons for the increase in electronic content. The interior electronics have a major part in ECU, which is controlled by the BCM. The use of the electronics in automotive which needs BCMs for controlling would be more. The need for the BCM increases with the increase in the electronic content related to BCM.

Technavio's analysts forecast the global automotive body control module market to grow at a CAGR of 2.06% during the period 2017-2021.

## **Research Report on Automobile Tire Industry in China, 2018-2022**

Published by China Research and Intelligence

Pub. Date 2017/12/15

Price

USD 2400 Unprintable PDF (Single User License) ~

USD 3600 Printable & Editable PDF (Enterprisewide License)

[www.giiresearch.com/ce/597654](http://www.giiresearch.com/ce/597654)

Demand for automobile tires can be classified into OEM demand from whole-vehicle manufacturing and replacement demand from automobile aftermarket. In developed countries, there is scarce potential for growth of new automobile sales due to the high market saturation. Therefore, the demand of aftermarket becomes the major driving force of the tire industry. CRI analyzes that the CAGR of global production volume of automobiles was approximately 3.1% between 2012 and 2016. During the same period, the CAGR of vehicle reserve volume was 3.9%. The global vehicle reserve volume was 1.33 billion in 2016 and it is expected to reach 1.59 billion in 2021.

According to CRI, China's automobile industry has developed rapidly since the access to WTO. China has been the world's largest automobile manufacturer and distributor for 9 years from 2009 to 2017. In the meanwhile, China is as well the world's largest producer and exporter of automobile tires. It produced 6.1 million tires in total in 2016.

## **Global Automotive Retractable Door Handle System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595505](http://www.giiresearch.com/ce/595505)

The automotive retractable door handle system is a movable system, where the door handle can deploy and retract as per requirement and merges with side body structure, making an efficient aerodynamic vehicle design. The automotive door handles have not evolved to the extent of other automotive technologies. The development of automotive door handles is restricted to aesthetics and some automatic keyless entry sensors. TESLA has disrupted the automotive door handle technology with the introduction of retractable door handle. The door handle is a necessary part of the automotive system and has high market potential. The evolution of the automatic sensing technology in door handles in Europe and the Americas has been exponential in the past decade. The mechanical connected door latching system has been there since the existence of the automobile.

Technavio's analysts forecast the global automotive retractable door handle system market to grow at a CAGR of 84.46% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of global automotive retractable door handle system market for 2017-2021. To calculate the market size, the report considers the original equipment (OE) fitments and replacements. There is no aftermarket for the product.

## **Global Automotive Transmission Control Unit (TCU) Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595501](http://www.giiresearch.com/ce/595501)

A transmission control unit (TCU) is an electronic device, which assists the automatic transmission of a vehicle to operate more reliably and efficiently. A TCU generally uses the data available from sensors installed in the vehicle, along with the data provided by the electronic control unit (ECU), to calculate the gearshift pattern of the vehicle. It helps to achieve optimum performance, improved gear shift quality, improved vehicle handling, reduced engine emissions, and increased fuel economy. A TCU is an essential component in an automatic transmission vehicle and comes pre-fitted in them by original equipment manufacturers (OEMs).

Technavio's analysts forecast the global automotive transmission control unit (TCU) market to grow at a CAGR of 6.78% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive transmission control unit (TCU) market for 2017-2021. To calculate the market size, the report considers the production volume of automatic transmission vehicles.

## **Global Automotive Seat Control Module Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595515](http://www.giiresearch.com/ce/595515)

*An automotive seat control module provides complete seat management. It includes switches and electronic controls. Features such as automotive seat heating and air conditioning, seating position with respect to rearview mirrors, and dynamic lateral support to stabilize the body while cornering are included in modern seat control modules. A modern seat control module has an eight-way adjustment feature that allows the driver to move the seat up/down, forward/backward, front/back, and tilt or recline, massage function, and automatic headrest adjustment.*

*Technavio's analysts forecast the global automotive seat control module market to grow at a CAGR of 5.93% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive seat control module 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 Luxury SUV Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595504](http://www.giiresearch.com/ce/595504)

*Luxury SUV is a marketing term used for specific types of SUVs to promote a sense of exclusivity and increase the brand value of such vehicles. Luxury SUVs are often offered at significantly higher price tags as compared to other types of SUVs. SUVs are vehicles with a high ground clearance, capability for an all-wheel or four-wheel drive, high center of gravity, high seating, and tall interior packaging. SUVs are termed light trucks because of their utility-based design. These vehicles are characterized by their high fuel consumption and increased curb weight. A majority of the SUVs are made with the towing capacity to increase their utility.*

*Technavio's analysts forecast the global luxury SUV market to grow at a CAGR of 25.08% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global luxury SUV market for 2017-2021. To calculate the market size, the report considers the new sales of luxury SUVs.*

## **Global ATV Steering System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595516](http://www.giiresearch.com/ce/595516)

ATVs are vehicles that can traverse different terrains as they have the capability to steer through any surface. Terrain is the most important parameter for the design of an ATV. The components used to manufacture ATVs are optimized to sustain different maneuvering conditions. There are several components used to manufacture ATVs such as include the suspension system, drivetrain, engine, chassis, steering system, safety equipment, and tires. ATVs are a new segment of small vehicles that are popular in North America. They had gained popularity after Honda Motor introduced the first commercially available road-going ATV in 1970.

Technavio's analysts forecast the global ATV steering system market to grow at a CAGR of 11.02% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global ATV steering 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.

## **Urban Logistics Opportunities - Last-Mile Innovation**

Published by Frost & Sullivan

Pub. Date 2017/12/15

Price

USD 6000 Web Access (Regional License)

[www.giiresearch.com/ce/599177](http://www.giiresearch.com/ce/599177)

The Logistics market is undergoing a major shift, with innovative solutions transforming the way goods and parcels are delivered. The industry is witnessing an influx of tech-savvy start-up firms that are introducing new, unique, value-added services, which are disrupting the overall supply chain ecosystem. The rise of start-up firms within the logistics industry for city deliveries parallels the growth of emerging technologies, such as Big Data, cloud computing, crowd sourcing platforms and connected devices which are transforming the way deliveries are expected to be transported in the immediate future. This change has forced service providers to deliver more customized solutions that address larger concerns within the industry. Recently, there has been greater emphasis on last-mile delivery. Research suggests that two-fifths of the overall logistics cost is being spent on the last mile. This has resulted in logistics and transportation firms looking at technology and new business models as means to address the growing issue of the last mile. With end consumers becoming more demanding, user experience and instant deliveries are taking greater precedence and are becoming critical factors. This means that same-day and last-mile deliveries will be key differentiators, as service providers will be obliged to provide more customized solutions to address such concerns.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/311868](http://www.giiresearch.com/ce/311868)

Automotive upholstery is a furnishing covering and is found in many parts of the interiors of the automobile. It is also known as a trimmer, coach trimmer, or motor trimmer. The term coach trimmer was derived during the days when the car frames were produced separately and then delivered to the coachbuilders to add car body and interior trimmings. Earlier, the trimmers (upholsterers) would provide soft furnishings, carpets, soft tops, and roof linings that are made according to the customer specifications. Later, these trim shops became a part of the production line where the production process was broken down into smaller parts, which could be managed by semi-skilled labor.

Technavio's analysts forecast the global automotive upholstery market to grow at a CAGR of 12.10% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of global automotive upholstery market for 2017-2021. To calculate the market size, the report considers the automotive upholsteries installed in factory fitted cars from OEMs and aftermarket upholsteries.

## **Global Automotive Tie Rod Assembly Market 2017-2021**

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Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/595507](http://www.giiresearch.com/ce/595507)

Tie rod is an essential part of a vehicle's steering system. Tie rod's main function is to tie the steering rack to the steering system. It is a thin structural rod used to link and can carry tensile loads only. Tie rod consists of an outer and inner end. It transmits force from the rack gear or steering center to the steering knuckle. This will cause the wheels to turn at a required angle. Inner and outer tie rods are joined using a sleeve joint that allows the adjustment of the steering system when the front wheels are aligned. Steering knuckles are connected to the outer tie rod, which turns the front wheels.

Technavio's analysts forecast the global automotive tie rod assembly market to grow at a CAGR of 3.89% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive tie rod assembly 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 Active Engine Mount Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/595510](http://www.giiresearch.com/ce/595510)

Engine mounts are rigid clamps or brackets using which the engine is mounted on the chassis of a vehicle. They are manufactured in a way to isolate the engine vibrations to the frame and vice-versa. The mounting system is used to mount the engine in place. This provides isolation from engine vibrations. Active engine mounts are tunable and change their dampening characteristics based on the engine's condition. They have the capability to remain soft when idle to absorb the vibrations produced by unevenly spaced cylinder firing.

Technavio's analysts forecast the global automotive active engine mount market to grow at a CAGR of 10.04% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive active engine mount 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 Engine Oil Level Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595518](http://www.giiresearch.com/ce/595518)

A sensor is an electronic device that detects changes in its environment by picking stimulus and updates in the system electronically. Sensors are engineered to detect physical, chemical, and process changes. Engine oil level sensors are used in both industrial and automotive applications to gather information about the oil level inside the engine and ensure that they send information to the driver when the oil level inside the engine is low. The sensor is located inside the oil pan, and its job is to measure the oil inside the pan before the engine gets started.

Technavio's analysts forecast the global automotive engine oil level sensor market to grow at a CAGR of 4.65% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive engine oil level sensor 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 High-efficiency Particulate Air (HEPA) Filter Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/595500](http://www.giiresearch.com/ce/595500)

As per the US Environmental Protection Agency (EPA), the high-efficiency particulate air (HEPA) filter is a porous paper or non-woven fabric filter that uses capture and dispose technology to eliminate pollutants. The pollutants that are captured and disposed by this technology include submicron particulate matter (PM) >0.3  $\mu\text{m}$  in aerodynamic diameter, and PM >0.12  $\mu\text{m}$  for a chemically, biologically, or radioactively toxic; hazardous air pollutants (HAPs), mostly metals. HEPA filters are categorized based on the minimum collection efficiency, that is, 99.97% efficiency for the removal of 0.3- $\mu\text{m}$  diameter or larger PM.

Technavio's analysts forecast the global automotive high-efficiency particulate air (HEPA) filter market to grow at a CAGR of 23.55% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive high-efficiency particulate air (HEPA) filter market for 2017-2021. To calculate the market size, the report considers the revenue generated from the sales of medical devices required for thoracic surgeries.

## **Global Automotive Seals and Gaskets Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/15

Price

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[www.giiresearch.com/ce/595512](http://www.giiresearch.com/ce/595512)

An automotive seal or a mechanical seal helps in joining the two components that could help in preventing leakages. The common applications where these seals are used are fuel injection, pinion oil, transmission, steering, axle, fuel pump, oil pump, brake pump, coolant pump, and washer pump. These seals play a vital role in a vehicle, as their fault may lead to engine misfires and increase in maintenance costs if not frequently checked and replaced. Use of these seals in powertrain is unavoidable and cannot be substituted. Because of their high importance, manufacturers are involved in developing efficient and high-performance seals that can perform at high temperatures and pressures in modern engines. An automotive gasket is a mechanical seal that helps in filling the gaps between the two or more mating surfaces to prevent leakages into or from the joined components during the compression cycle. They are associated with many advantages such as they do not burn through and do not develop leaks and sealing problems. Their prime requirement is that they need smooth surfaces on both the cylinder head and engine block to seal properly.

**Tappet Market for Automotive by Type (Flat, and Roller), End User (Economic, Mid-priced, and Luxury passenger cars), Engine Capacity (<4 cylinders, 4-6 cylinders, and >6 cylinders), Vehicle Type, and Region - Global Forecast to 2025**

Published by MarketsandMarkets

Pub. Date 2017/12/14

Price

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USD 10000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/593776](http://www.giiresearch.com/ce/593776)

The global tappet market for automotive is projected to reach a market size of USD 10.11 billion by 2025, growing at a CAGR of 3.36% from 2017 to 2025. The market growth is primarily driven by the growth of the commercial vehicles segment, which can be attributed to the improving business environment for fleet operators and a rise in demand from the construction and mining sectors. Also, the growth in passenger vehicles production directly impacts the growth of the automotive tappet market. On the other hand, the increasing popularity of electric and hybrid vehicles can hinder the growth of the tappet market for automotive.

"The roller tappets segment is estimated to be the fastest growing segment in the tappets market for automotive, in terms of value"

The roller tappets segment is estimated to be the fastest growing segment of the tappets market for automotive in 2017. The growing trend of engine downsizing without compromising the performance of the engine is driving the market for roller tappets. Roller tappets enhance the performance of the engine by allowing faster as well as smoother opening and closing of the valve.

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**Global Automotive Door Control Unit (DCU) Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/14

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/595494](http://www.giiresearch.com/ce/595494)

An ECU is an embedded system that controls the number of electrical systems associated with an advanced motor vehicle. The ECU which controls the function related to the door is known as a door control unit (DCU). The DCU detects the vehicle condition based on the input from the sensor switch and passed through the microprocessor and thus drives the door lock features or the others feature associated with the door. DCUs are responsible for controlling the various door operations.

Technavio's analysts forecast the global automotive door control unit (DCU) market to grow at a CAGR of 7.53% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive door control unit (DCU) 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 Pump Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/13

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592412](http://www.giiresearch.com/ce/592412)

A pump is a device that helps in moving a matter (liquid or gas) using mechanical action. There are two types of pumps in the market: Reciprocating pumps (with linear motion) and rotary pumps (with rotating motion). Automotive pumps are crucial in vehicles and help in supplying the required amount of fluid or air for the smooth functioning of all systems. Currently, there is no replacement for these pumps. Furthermore, the shifting of the automotive sector from mechanical systems to electrical systems, increasing focus toward developing highly fuel-efficient vehicles, and stringent emission norms would drive the market growth during the forecast period.

Technavio's analysts forecast the global automotive pump market to grow at a CAGR of 4.09% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive pump market for 2017-2021. To calculate the market size, the report considers the volumes only.

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**Strategic Analysis of the Mobility Value Chain, 2017**

Published by Frost & Sullivan

Pub. Date 2017/12/13

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/599171](http://www.giiresearch.com/ce/599171)

This research service analyses the mobility market value chain in detail and discusses the expected trends. The study delves into evolving business models, market consolidations and partnerships, and advanced technology trends shaping the market. It provides the market trends and outlines potential growth avenues for the near future.

Table of Contents

1. EXECUTIVE SUMMARY
  2. RESEARCH SCOPE, OBJECTIVES, BACKGROUND, AND METHODOLOGY
  3. DEFINITIONS AND SEGMENTATION
  4. CARSHARING MARKET
  5. CARSHARING FLEET PROVIDERS
  6. CARSHARING TECHNOLOGY PROVIDERS
  7. CARSHARING OPERATORS
  8. OPERATIONAL AND INFRASTRUCTURE SUPPORT
  9. CARSHARING VALUE CHAIN-EXAMPLES
  10. RIDEHAILING MARKET
  11. RIDEHAILING FLEET PROVIDERS...
-

## **Opportunity Analysis of the OBD II Automotive Aftermarket, Forecast to 2023**

Published by Frost & Sullivan

Pub. Date 2017/12/13

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/599170](http://www.giiresearch.com/ce/599170)

*The global OBD II automotive aftermarket is witnessing rapid growth; original equipment manufacturers (OEMs) are continuously investing in and acquiring dongle suppliers that are relevant to their businesses. Frost & Sullivan segments the ecosystem into dongle suppliers, Internet and connectivity, and service enablers. This study focuses on key sub-segments on the lines of the aftermarket, tier 1s, OEMs, mobile carriers, telecoms, and platform enablers.*

*Start-ups and OEMs wish to enter this market. OEMs are likely to gain higher proliferation from new vehicles enabled with embedded telematics, but OBD dongle-based solutions are expected to record quicker growth in North America due to the older parc. The adoption of OBD II dongles is likely to grow from 5.5 million in 2016 to 27.8 million in 2023 in North America. Europe is likely to adopt a pro-embedded stand post the 2020 mandate, which will dampen OBD dongle penetration. The adoption of dongles in Europe is likely to grow from 0.9 million in 2016 to 4.1 million in 2023.*

*OBD II dongle proliferation is heavily dependent on distribution channels and channel enablers such as garages, mechanics, and retailers. Deploying last-mile services for consumers and providing well-rounded services are the key to overall product success. OBD II-based aftermarket solutions depend on retail and auto repair shops for their market penetration. Government policies, safety regulations, and real-world behavior are likely to create ripples in the overall OBD II dongle aftermarket.*

## **Global Motorcycle Rental Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/13

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/409536](http://www.giiresearch.com/ce/409536)

*Motorcycle rental services operate through a network of pickup or drop-off points and offer a range of two-wheelers that customers can pay, and ride whenever required. Motorcycle rental is a substitute for motorcycle ownership. In this system, motorcycles are owned by a firm that rents them to users on a daily basis, monthly basis, or annually. Over the years, motorcycle rental has evolved from a basic service provided by popular organizations to a widely recognized component of the modern urban transport industry. The automotive rental industry is quickly developing into a globalized industry that can provide many transportation benefits, environmental benefits, and social benefits. The demand for motorcycle rental services has increased significantly over the years because of the cost advantages it offers to users. Motorcycle rentals allow consumers to use vehicles without being burdened by ownership and maintenance costs. Megacities have high environmental pollution and traffic congestions. Thus, there is an increase in the demand for motorcycles rentals.*

## **Global Motorcycle High Performance Braking System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/13

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/592416](http://www.giiresearch.com/ce/592416)

Motorcycle high performance braking system uses performance materials and systems that work together to deliver superior braking performance in varied conditions. The global motorcycle high performance braking system market is segmented by key stakeholders and geography. The high performance braking system used in motorcycles use advanced brake rotors, calipers, and discs made of innovative materials. They increase the braking force tremendously and shorten stopping distances. Carbon ceramic brake is one of the superior braking systems which is commercially available in the market.

Technavio's analysts forecast the global motorcycle high performance braking system market to grow at a CAGR of 9.87% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global motorcycle high performance 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.

## **Global Automotive Keyless Entry System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/13

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592409](http://www.giiresearch.com/ce/592409)

An automotive keyless entry system consists of two types of technologies: RKE system, whose functionality is entry into the vehicle, and PKE system, which operates as an entry-and-go functionality. A keyless entry system provides vehicle access without using the traditional mechanical key, offering better security and convenience. The global automotive keyless entry system market is segmented based on product type as RKE (remote keyless entry) and PKE (passive keyless entry) and by geography as the Americas, EMEA, and APAC.

Technavio's analysts forecast the global automotive keyless entry system market to grow at a CAGR of 7.56% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive keyless entry system market for 2017-2021. To calculate the market size, the report considers the global unit sales of vehicles (passenger cars and commercial vehicles) installed with keyless entry system as well as aftermarket sales of keyless entry systems.

## **Global Automotive Throttle Position Sensor (TPS) Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/13

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592418](http://www.giiresearch.com/ce/592418)

TPS is a crucial category of position sensors, which monitor the position of the valve in the vehicle engine. TPS are most common in ICE-vehicles nowadays. Currently, the global automotive TPS market is at the maturity stage, and their demand is coming from new vehicle productions and aftermarket for replacement parts. Government regulations on vehicle emissions, fuel efficiency, and safety will continue to contribute to the growing number of position sensors per vehicle, and TPS is one of the crucial sensors among them.

Technavio's analysts forecast the global automotive throttle position sensor (TPS) market to grow at a CAGR of 5.70% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive throttle position sensor (TPS) 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 Audio Speakers Market 2017-2021**

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592408](http://www.giiresearch.com/ce/592408)

The audio system installed in the vehicle delivers the high-performance sound experience and provide entertainment and information for the occupants using a number of speakers, woofers, and other components. Earlier, the infotainment system used in the cars were limited to radios and CD players. Since then, a lot of developments has been made including FM radio, Bluetooth telephone integration, navigation systems, and smartphone controllers like CarPlay and Android Auto. This is driving the demand for the automotive audio speakers.

Technavio's analysts forecast the global automotive audio speakers market to grow at a CAGR of 3.61% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive audio speakers 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 Seat Massage System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592395](http://www.giiresearch.com/ce/592395)

The adoption of automotive seat massage systems will be primarily driven by factors such as the comfort offered by such seats, increase in long-distance traveling, and the rising sales of CVs. The global luxury car and light commercial vehicle (LCV) manufacturers are expanding their footprint in developed nations, along with developing nations such as China and India. Many vendors are increasingly launching their products in developing economies, attracted by the higher demand for comfort and increasing economic growth in these regions. Such trends will push the adoption of automotive seat massage systems in these regions.

Technavio's analysts forecast the global automotive seat massage system market to grow at a CAGR of 13.42% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive seat massage system market for 2017-2021. To calculate the market size, the report considers the revenue generated by the automotive seat massage systems across the geographies.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

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[www.giiresearch.com/ce/341727](http://www.giiresearch.com/ce/341727)

Automotive switches are electromechanical devices, which help in the operation of electrical circuits of vehicles. They have a wide range of applications in vehicles, which include infotainment system, HVAC system, and electronic component systems. These are primarily used in direction indicators, infotainment, windows, and headlights and help drivers to avoid distractions while driving. Different configurations of automotive switches are used in passenger cars, commercial vehicles, and other vehicle segments. The different types of automotive switches used in automotive applications are push button, rotary, knob, and toggle switches. The global automotive switches market is mainly dependent on the sales of passenger cars and commercial vehicles. The advancements in the adoption of panel and steering wheel switches are expected to drive the global automotive switches market during the forecast period.

Technavio's analysts forecast the global automotive switches market to grow at a CAGR of 3.02% during the period 2017-2021.



## **Global Automotive Rocker Arm Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

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Rocker arms are engine components which are installed in between the pushrod and the intake valves and exhaust valves. The position of rocker arms depends on the configuration of the engine. So, in different engine designs, such as overhead valve (OHV), single overhead camshaft (SOHC) or double overhead camshaft (DOHC) type, the position of the rocker arms differs. Rocker arms are one of the essential components of the internal combustion (IC) engine. Hence they come pre-fitted in the engines by OEMs.

Technavio's analysts forecast the global automotive rocker arm market to grow at a CAGR of 3.15% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive rocker arm 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 Reefer Container Leasing Market 2017-2021**

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Pub. Date 2017/12/12

Price

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[www.giiresearch.com/ce/592400](http://www.giiresearch.com/ce/592400)

Reefers are refrigerated containers that constantly supply air from the bottom of the container to distribute uniform chillness across the container through specific T-shaped decking. These containers are used to carry food and beverage as well as pharmaceutical products. Depending on the size and volume, reefer containers can be 20ft standard and 20ft high cube, 40ft standard and 40ft high cube, and 45ft wide high cube containers. The lessors purchase the reefer containers from container manufacturers and lease it to cargo players or shippers, container fleet management companies, individual goods manufacturers, and other service sector players, at a particular lease rate and lease volume depending upon the size of the containers. The lease rates of the containers also vary with two other factors, the age of the containers and the duration of the lease period.

Technavio's analysts forecast the global reefer container leasing market to grow at a CAGR of 15.92% during the period 2017-2021.

## **Global Automotive Front-end Module Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

Price

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USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592397](http://www.giiresearch.com/ce/592397)

The automotive FEM market is growing at a rapid pace across the world. FEMs are effective for vehicles with unibody frame. However, presently, manufacturers are producing FEMs for body-on-frame type vehicles. This type of frame or chassis is mostly used in SUVs and trucks. The markets for SUVs and pick-up trucks are growing at a rapid rate, which will improve the sales of FEMs that are specific for body-on-frame type vehicles. The increasing demand for safety and comfort of vehicles and the rising number of government regulations are intensifying the cost pressure on OEMs.

Technavio's analysts forecast the global automotive front-end module market to grow at a CAGR of 14.93% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive front-end module 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 Commercial Vehicle Thermal Management Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592398](http://www.giiresearch.com/ce/592398)

Automotive thermal management systems can be classified based on their applications in powertrain systems and passenger comfort systems. In powertrain systems, they can be mainly profiled under engine and transmission cooling, and in alternative fuel propulsion vehicles, they form a part of battery and power electronics thermal management. The components of thermal management system in alternative fuel propulsion vehicles mainly include coolant systems, lubrication systems, electric devices, and hardware and software subsystems to regulate powertrain-related thermal management.

Technavio's analysts forecast the global commercial vehicle thermal management systems market to grow at a CAGR of 2.21% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicle thermal management systems 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 ECU Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/592406](http://www.giiresearch.com/ce/592406)

An electric vehicle (EV) is powered by an electric motor for propulsion. An electric vehicle uses a battery to store energy, which is supplied to the electric motor through a controller. The controller regulates the energy flow from the battery to electric motor based on the power requirement. EVs first appeared in the market during the 19th century. However, they have high cost and short range compared with internal combustion engine (ICE) vehicles and limited proliferation of the EV market. As it moved into the 20th century, increased greenhouse gases (GHG) emissions from vehicles and environmental issues compelled countries to adopt alternative fuel vehicles (AFVs), which had lower or near-to-zero emissions. This has led the automakers to switch to hybrid and electric powertrain technology.

Technavio's analysts forecast the global electric vehicle ECU market to grow at a CAGR of 46.26% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global electric vehicle ECU market for 2017-2021. To calculate the market size, the report considers the revenue generated by the sales of electric vehicle ECUs across the geographies.

## **Global Automotive Throttle Body Assembly Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/12

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592405](http://www.giiresearch.com/ce/592405)

The throttle body is the part of the air intake system that controls the amount of air, which flow into an engine's combustion chamber. It consists of a housing unit that contains a throttle plate or butterfly valve, which rotates on a shaft.

Technavio's analysts forecast the global automotive throttle body assembly market to grow at a CAGR of 2.97% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive throttle body assembly market for 2017-2021. To calculate the market size, the report considers the average selling price of a throttle body.

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

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Pub. Date 2017/12/12

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/354845](http://www.giiresearch.com/ce/354845)

A sensor is an electronic device that can detect changes in an environment and sending updates to the system electronically. It can identify chemical, physical, and process-based changes. Corrective action is taken based on the information send by the sensor. The number of sensors that monitor the onboard conditions in a vehicle has increased rapidly over the years. These sensors can measure many parameters such as temperature, pressure, fluid levels, speed, acceleration, and oxygen flow.

Technavio's analysts forecast the global automotive sensors market to grow at a CAGR of 7.08% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive 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.

## **Vehicle Grid Integration - Managing Plug-In EVs in Grid Services: Global Market Analysis and Forecasts**

Published by Navigant Research

Pub. Date 2017/12/11

Price

USD 3800 PDF & Excel by E-mail (Basic License) ~

USD 5700 PDF & Excel by E-mail (Enterprise License)

[www.giiresearch.com/ce/325539](http://www.giiresearch.com/ce/325539)

With range issues overcome and low costs for energy and maintenance, plug-in EVs (PEVs) are likely to steadily become the leading powertrain in light duty vehicle (LDV) transport by 2050 and in medium and heavy vehicle (MHDV) transport not long after. The electrification of transportation will increase load significantly. While basic load growth is good for the electric power sector, the uneven distribution of that growth within a focused location or at a specific time of day could prove burdensome for utilities. Actively managing and spreading the load across infrastructure assets and time via vehicle grid integration (VGI) technologies will prevent infrastructure upgrade costs and may also decrease grid balancing costs.

Though this may seem like a win-win for the electric power sector, VGI is still a fledgling solution with significant hurdles to overcome. Opportunities for deployment vary significantly by location depending on the confluence of a growing PEV population, an advanced grid, penetration of renewable resources, and encouraging grid regulatory structures. Such confluences are yet rare, but they will grow in number as PEV populations increase, grid operators adapt to new distributed energy resources (DER) technologies, and grid services become increasingly important to grid operation. According to Navigant Research, the global grid services market is expected to grow in capacity from nearly 198 GW in 2017 to more than 516 GW in 2026.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/11

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592384](http://www.giiresearch.com/ce/592384)

### About Commercial Vehicle Connectors

The connectors are used to connect subsections of circuits together. Generally, they are used when there is a requirement to disconnect the subsections like power inputs, peripheral connections, or boards. The connectors in automotive applications come in a variety of sizes, shapes, complexities, and quality levels. The market encompasses the connectors fitted in the commercial vehicles for various applications. The global commercial vehicle connectors market is competitive with the presence of several players in the market. However, top firms account for the maximum share of the global market owing to innovation in connectors. In addition, the global automotive connectors market is at the growth stage, and the demand for connectors from the mass segment is becoming crucial for their adoption. The growing electrification of commercial vehicles in terms of powertrain applications, chassis, and connectivity is increasing the demand for connectors in commercial vehicles.

Technavio's analysts forecast the global commercial vehicle connectors market to grow at a CAGR of 7.33% during the period 2017-2021.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592367](http://www.giiresearch.com/ce/592367)

The automotive piston mostly functions by transferring force from the expanding gas in the cylinder to the crankshaft via the piston rod or with the help of connecting rod, which produces the required power to drive the shaft and consequently the automobile. The automotive piston consists of piston rings which restrict the leakage of gas. The piston also acts as a valve in some engines for ports in the cylinder wall. A piston facilitates the intake, compression, combustion, and exhaust stroke of an IC engine. The piston moves in upward and downward motion inside an engine cylinder. The motion transmits the energy into the camshaft connected between cam and the piston. The power is transferred from the engine cylinder causing the movement of the vehicle.

Technavio's analysts forecast the global automotive piston market to grow at a CAGR of 2.06% during the period 2017-2021.

### Covered in this report

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

## **Global Automotive Oxygen Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

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[www.giiresearch.com/ce/592381](http://www.giiresearch.com/ce/592381)

Automotive oxygen sensors are mainly used for determining the amount of unburnt oxygen in the exhaust gas after combustion. Modern vehicles following emission regulations equivalent to Euro 5 or USEPA emission standards are equipped with oxygen sensors in the exhaust tailpipes to determine the amount of air of fuel required for the next combustion cycle and for determining the effectiveness of the exhaust system of the vehicle. Automotive oxygen sensors detect whether the air-fuel mixture after combustion is lean or rich. If more fuel is used for a combustion cycle over the optimal mixture ratio of 14.7:1, then it results in high pollution and is called a rich mixture. Low amount of fuel and more amount of air result in a lean mixture, which forms harmful nitrogen oxide pollutants and undermines the engine's performance.

Technavio's analysts forecast the global automotive oxygen sensor market to grow at a CAGR of 2.46% during the period 2017-2021.

## **ASEAN Logistics Market - Disruptive Innovations, Forecast to 2025**

Published by Frost & Sullivan

Pub. Date 2017/12/08

Price

USD 3000 Web Access (Regional License)

[www.giiresearch.com/ce/599160](http://www.giiresearch.com/ce/599160)

By 2025, the Association of Southeast Asian Nations (ASEAN) region is expected to be the next destination for global participants, replacing China, with its geographic proximity, large consumer base, and low costs attracting traders. Cambodia, Myanmar, Laos, and Vietnam (the CLMV countries of the Greater Mekong Subregion) are emerging as an attractive destination for investors. The ASEAN marked its 50th anniversary in 2017, striving to move forward as a single market and production base. Implementation of the ASEAN Economic Community (AEC) will unify ASEAN members under a single cluster, making it an attractive hub for investors. An integrated transport and mobility infrastructure in the region offers a new dimension for the growth of the ASEAN. Trade activities are expected to record tangible advances with the support of participating governments. A growing consumer base, due to urbanization in ASEAN and enhanced by digital penetration, drives online business model adoption by industry players, encouraging the integration of both local and international logistics providers. The top 10 disruptive trends identified in the field of logistics in the region are expected to enhance ASEAN's position as an international leading business hub. The innovative trends are expected to be interrelated, boosting the growth of the logistics industry in ASEAN. Significant growth is forecast in the logistics industry across ASEAN during the next decade driven by the logistics trends.

## **Global Automated Parking Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592356](http://www.giiresearch.com/ce/592356)

The global parking systems market comprises robotic (AGV-based system), semi-automated, as well as fully-automated parking systems that are used in residential, commercial, and other end-user segments. Vendors in this market are introducing new products that are cost-efficient for larger systems. While the market is dominated by automated and semi-automated parking systems that use mechanical systems to move cars into parking spaces, there has been an upsurge in the adoption rate of robotic parking systems based on automated guided vehicles (AGVs) in the last five years.

Technavio's analysts forecast the global automated parking systems market to grow at a CAGR of 11.42% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automated parking systems 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 Seat Actuation System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592376](http://www.giiresearch.com/ce/592376)

An actuator is responsible for moving or controlling a mechanism or a system. It is a type of motor that helps in converting energy into torque. It requires a control signal and a source of energy to complete its function. The control signal can be an electric voltage, pneumatic or hydraulic pressure, or human power. An automotive seat actuation system helps in the adjustment of the seat according to the occupant's convenience. Previously, vehicles seats were adjusted manually by the occupant of the seat. Later, with the advancements in technology, electric seat came into existence, wherein by pressing a button, the seat gets adjusted automatically.

Technavio's analysts forecast the global automotive seat actuation system market to grow at a CAGR of 3.85% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive seat actuation 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 Connecting Rod Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592375](http://www.giiresearch.com/ce/592375)

Connecting rods are commonly known as con rod. In the reciprocating piston engine, connecting rod connects the piston to the crankshaft. It converts the reciprocating motion into rotating motion. In a reciprocating piston engine, connecting rods are mostly made of steel or aluminum. For light weight and the ability to absorb high impact at the expense of durability, aluminum is preferred. The connecting rod manufacturers are dependent on the number of vehicles produced and the number of cylinders used in a vehicle's engine.

Technavio's analysts forecast the global automotive connecting rod market to grow at a CAGR of 3.16% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive connecting rod 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 Driver State Monitoring System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592349](http://www.giiresearch.com/ce/592349)

The driver state monitoring system is an advanced driver assistance system tool adopted to analyze the state of a driver while driving, thereby, preventing fatalities or injuries that can be caused due to distractions. The market encompasses the device which captures the driver's eye movement using infrared, camera, and other sensors. The driving behavior can be monitored by other methods like using sensors in seats and steering and by using biometrics. Driver state monitoring system detects drowsiness by eyeball movement and the stability of steer by measuring the steering angle. The market includes both passenger vehicles and commercial vehicles segments in APAC, EMEA, and the Americas.

Technavio's analysts forecast the global automotive driver state monitoring system market to grow at a CAGR of 10.77% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive driver state monitoring system market for 2017-2021. To calculate the market size, the report considers the new installations of driver state monitoring system and exclude the aftermarket or replacement market of the system.



## **Future Trends in Luxury Electric Vehicle Market in North America and Europe, 2016-2025**

Published by Frost & Sullivan

Pub. Date 2017/12/08

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/599161](http://www.giiresearch.com/ce/599161)

*The global OBD II automotive aftermarket is witnessing rapid growth; original equipment manufacturers (OEMs) are continuously investing in and acquiring dongle suppliers that are relevant to their businesses. Frost & Sullivan segments the ecosystem into dongle suppliers, Internet and connectivity, and service enablers. This study focuses on key sub-segments on the lines of the aftermarket, tier 1s, OEMs, mobile carriers, telecoms, and platform enablers.*

*Start-ups and OEMs wish to enter this market. OEMs are likely to gain higher proliferation from new vehicles enabled with embedded telematics, but OBD dongle-based solutions are expected to record quicker growth in North America due to the older parc. The adoption of OBD II dongles is likely to grow from 5.5 million in 2016 to 27.8 million in 2023 in North America. Europe is likely to adopt a pro-embedded stand post the 2020 mandate, which will dampen OBD dongle penetration. The adoption of dongles in Europe is likely to grow from 0.9 million in 2016 to 4.1 million in 2023.*

*OBD II dongle proliferation is heavily dependent on distribution channels and channel enablers such as garages, mechanics, and retailers. Deploying last-mile services for consumers and providing well-rounded services are the key to overall product success. OBD II-based aftermarket solutions depend on retail and auto repair shops for their market penetration. Government policies, safety regulations, and real-world behavior are likely to create ripples in the overall OBD II dongle aftermarket.*

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## **Market Data - EV Market Forecasts: Global Forecasts for Light Duty Plug-In Hybrid and Battery EV Sales and Populations 2017-2026**

Published by Navigant Research

Pub. Date 2017/12/08

Price

USD 3800 PDF & Excel by E-mail (Basic License) ~

USD 5700 PDF & Excel by E-mail (Enterprise License)

[www.giiresearch.com/ce/209206](http://www.giiresearch.com/ce/209206)

*The market for light duty vehicles (LDVs) is changing rapidly due to innovations in autonomous and connected vehicle systems and advances in battery energy density and cost. Autonomous and connected vehicle technologies will likely encourage greater use of shared vehicles and increased use of LDVs. Meanwhile, the transition from liquid fuels to electricity is expected to transform the retail fuel sector as well as utility roles in transportation energy supply. These technologies are in their infancy and will take decades to mature. Yet, as they do, LDV travel and the pool of industries that support it will change dramatically.*

*Declining costs have positioned the battery EV (BEV) for market success in the years to come. Long-range BEVs are now competitive in price among economy brands after subsidies. This milestone marks a threshold likely to move BEVs from a niche vehicle option to the next vehicle option for many consumers. Additionally, the over 400,000 preorders of Tesla's Model 3 indicate that the affordable 200-plus mile BEV will have a big impact on the vehicle market. Tesla's massive preorder numbers may indicate initial reactions to the upcoming long-range BEVs will beat industry expectations. Alternatively, these numbers could be a response to the company's hype machine-and they may overstate the long-range BEV opportunity.*

## **Global Automotive Belt Tensioner Pulleys Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592379](http://www.giiresearch.com/ce/592379)

The timing belt manufacturers have been using advanced materials for manufacturing the timing belt. These materials make timing belts thermal-resistant, corrosion-resistant, and less frictional and increase their lifespan. As the replacement of every timing belt was accompanied by the replacement of the belt tensioner pulley, use of advanced materials has caused a decline in the growth of the global automotive belt tensioner pulleys market by increasing the replacement time of timing belts.

Technavio's analysts forecast the global automotive belt tensioner pulleys market to grow at a CAGR of 3.03% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive belt tensioner pulleys 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 Push Rods Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592366](http://www.giiresearch.com/ce/592366)

A push rod is a metal rod that transmits the reciprocating motion of the camshaft to rocker arms that operate valves of an internal combustion (IC) engine. Push rods are found in overhead valve (OHV) engines or push rod engines. An OHV engine consists of the following parts.

Technavio's analysts forecast the global automotive push rods market to grow at a CAGR of (24.32)% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive push rods market for 2017-2021. To calculate the market size, the report considers the values.

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

- Americas
- APAC
- EMEA

**Global Automotive Seat Recliners Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592348](http://www.giiresearch.com/ce/592348)

An automotive seat consists of a large number of parts and mechanisms. Major parts of the seat are frame, padding, seat pan, head restraints system, reclining mechanism with lever, trim (seat cover), and suspension. Automotive seat recliner is a key component in automotive seating systems. It provides comfort for neck, spine, and foot while driving. High-quality steel or magnesium is used for producing recliners so that they can withstand strong forces during accidents.

Technavio's analysts forecast the global automotive seat recliners market to grow at a CAGR of 3.85% during the period 2017-2021.

Covered in this report

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

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**Market Data - Low Voltage Vehicle Electrification - 12 V and 48 V Stop-Start Vehicles, Micro- and Mild-Hybrids, and Related Technologies: Global Market Analysis and Forecasts**

Published by Navigant Research

Pub. Date 2017/12/08

Price

USD 3800 PDF & Excel by E-mail (Basic License) ~

USD 5700 PDF & Excel by E-mail (Enterprise License)

[www.giiresearch.com/ce/372570](http://www.giiresearch.com/ce/372570)

Many regions around the world will implement higher fuel efficiency standards in 2020 and beyond. As a result, vehicle manufacturers are investing in new technology now so that their fleet will be compliant and they will avoid punitive fines. Yet, only the smallest vehicles will be able to meet the new standards through incremental improvements. Implementing a full hybrid drive system would be one solution for larger vehicles, but the incremental costs necessary would be prohibitive. Low voltage electrification offers a practical alternative.

Basic stop-start vehicles (SSVs) have made progress in reducing fuel consumption, but systems have reached the limit of practical electrical power availability at 12V. Greater fuel efficiency as well as increasing levels of automation can be realized only by increasing the operating voltage, and 48V is the practical limit to avoid the need for additional safety protection. 48V stop-start systems will combine with other technologies, including micro and mild hybrid capabilities and electric turbochargers, to increase efficiency without the adoption of full hybrid or plug-in electric capability. According to Navigant Research, global sales of light duty SSVs will exceed 61 million by 2025, accounting for 59% of all light duty vehicle sales. Of these, about 15% will feature 48V components.

## **Global Automotive Holographic Display Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592380](http://www.giiresearch.com/ce/592380)

*Automotive holographic display is a three-dimensional image of the object created by light diffraction. It is a full-color display generated by reflections on the vehicle's dashboard. It is completely different from the conventional displays that use projection to display information and images on the screen. The display appears like a free-floating form, which is only visible to the driver and not the co-passenger or the other occupants. The technology is very advanced, and the leading automotive OEMs are working on the future of display technology.*

*Technavio's analysts forecast the global automotive holographic display market to grow at a CAGR of 188.68% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive holographic display market for 2017-2021. To calculate the market size, the report considers the OEM fitment of holographic display in vehicles.*

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/373399](http://www.giiresearch.com/ce/373399)

*Automotive RBS is a mechanism using which the vehicle's energy lost during braking can be harvested and reused when required. In actual sense, the kinetic energy of the vehicle is recovered used immediately or stored in the vehicle's battery until needed. The origins of RBS for automotive applications dates to the early 19th century. It is believed that RBS was first used in 1908 in a smartcar. C.J. Paulson patented his smartcar design, wherein the additional power generated by the vehicle and the energy generated by vehicle's momentum could be stored in a spring to propel the vehicle. The vehicle never went into production officially.*

*Technavio's analysts forecast the global automotive regenerative braking system market to grow at a CAGR of 36.47% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive regenerative braking system market for 2017-2021. To calculate the market size, the report considers the RBS penetration rate in passenger vehicles.*

## **Global Automotive Suspension System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/08

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/592364](http://www.giiresearch.com/ce/592364)

An automotive suspension system is a combination of springs, shock absorbers, and linkages that enable the relative motion between the vehicle and wheels. Horsepower, torque, and acceleration are important factors that affect the performance of an automobile. However, for all these factors to drive the performance of an automobile, wheels of the vehicle should be in contact with the ground or road, which is enabled by the suspension system of the automobile.

Technavio's analysts forecast the global automotive suspension system market to grow at a CAGR of 4.03% during the period 2017-2021.

Covered in this report

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

## **Global Small Electric Vehicle Market By Vehicle Type (Passenger Car Vs. Commercial Vehicle), By Technology Type (Battery Electric Vehicle Vs. Plug-in Electric Vehicle), By Battery Type, By Region, Competition Forecast & Opportunities, 2016 - 2022**

Published by TechSci Research

Pub. Date 2017/12/07

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[www.giiresearch.com/ce/588899](http://www.giiresearch.com/ce/588899)

According to "Global Small Electric Vehicle Market By Vehicle Type, By Technology Type, By Battery Type, By Region, Competition Forecast & Opportunities, 2016 - 2022", Global small electric vehicle market is forecast to grow at a CAGR of 23% during 2017 - 2022, on account of increasing consumer inclination towards electric passenger cars coupled with declining prices of electric vehicles. Moreover, the boost in demand for small electric vehicles can be attributed to favorable government policies and continuing surge in R&D investments by several OEMs to develop premium quality and affordable small electric vehicles. All the above stated factors along with growing penetration of small electric vehicles in developing economies are anticipated to positively impact the market over the course of next five years. Few of the major companies operating in the global small electric vehicle market are Nissan, BMW AG, Toyota Motor Corporation, Ford Motor Company, Zhengzhou Yutong Bus Co. Ltd., Audi AG, Hyundai Motor Company, BYD Company Limited, Renault, etc. All these companies are well assisted by their key development teams and supported by strong sales and distribution networks across the globe. "Global Small Electric Vehicle Market By Vehicle Type, By Technology Type, By Battery Type, By Region, Competition Forecast & Opportunities, 2016 - 2022" discusses the following aspects of small electric vehicle in global market:

**India Passenger Car Market By Vehicle Type (Hatchback, Sedan, SUV & MUV), By Segment Type (Mini, Compact, Micro, C1, C2, D, E, & F), By Fuel Type (Petrol, Diesel & CNG), By Engine Capacity, Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2017/12/07

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[www.giiresearch.com/ce/588904](http://www.giiresearch.com/ce/588904)

According to "India Passenger Car Market By Vehicle Type, By Segment Type, By Fuel Type, By Engine Capacity, Competition Forecast & Opportunities, 2012 - 2022", India passenger car market is projected to reach \$ 64.3 billion by 2022, on the back of growing disposable income, rising urban population, launch of several low-cost car models, and rapid development of road infrastructure across the country. Growth is also expected to be driven by surging number of Completely Knock Down (CKD) plants, availability of simple and effortless financing options and increasing demand for SUVs for off-road activities. Some of the major players operating in India passenger car include Maruti Suzuki India Limited, Hyundai Motor India Limited, Honda Cars India Ltd., Mahindra & Mahindra Ltd, Tata Motors Limited, Toyota Kirloskar Motor Pvt Ltd., Volkswagen India Private Limited, Ford India Private Limited, Nissan Motor India Private Limited, and Skoda Auto India Private Limited, among others.

**India Solid Waste Management Vehicles Market By Vehicle Type (Auto Tipper, Compactor Truck, Dumper Placer & Earth Moving Equipment), Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2017/12/07

Price

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[www.giiresearch.com/ce/588907](http://www.giiresearch.com/ce/588907)

Increasing popularity of public private partnerships between municipalities and private companies, coupled with growing preference for LCV auto tippers and MCV tippers incorporated with compaction technology that can load more solid waste as compared to conventional tippers, is expected to boost demand for solid waste management vehicles in India in the coming years.

According to "India Solid Waste Management Vehicles Market By Vehicle Type, Competition Forecast & Opportunities, 2012 - 2022", India solid waste management vehicles market is projected to grow at a CAGR of 9.8% through 2022. Growth in the market is anticipated on account of government initiatives aimed at increasing cleanliness across cities and metros covered by small as well as large municipal corporations. Some of the key players operating in India solid waste management vehicles market are Anthony Motors Pvt. Ltd., CEBCO, TPS Infrastructure Limited, Kam-Avida Enviro Engineers Pvt. Ltd., IPWT Engineering Pvt. Ltd., Kailash Vahan Udyog Limited, Mahabull Infra Engineers Pvt. Ltd, Narmada Offshore & Technical Services Pvt. Ltd, Maniar & Company, and Durga Tractors Private Limited. "India Solid Waste Management Vehicles Market By Vehicle Type, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of solid waste management vehicles market in India:

## **Global Three Wheeler Market By Vehicle Type (Passenger Carrier Vs. Load Carrier), By Region (Asia-Pacific, Africa, South America & Rest of World), Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2017/12/07

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[www.giiresearch.com/ce/588901](http://www.giiresearch.com/ce/588901)

According to "Global Three Wheeler Market By Vehicle Type, By Region, Competition Forecast & Opportunities, 2012 - 2022", Global three-wheeler market is forecast to surpass \$ 6 billion by 2022, on the back of rising population, growing requirement for last mile connectivity and surging passenger transportation needs, especially in the developing economies. In 2016, passenger carrier segment dominated the global three-wheeler market with more than three-fourth of the volume share, and the segment is expected to continue its dominance during the forecast period. Some of the major players operating in the global three wheeler market include Bajaj Auto Limited, Mahindra & Mahindra Limited, TVS Motor Company Limited, Scooters India Limited, Atul Auto Limited, etc. "Global Three Wheeler Market By Vehicle Type, By Region, Competition Forecast & Opportunities, 2012 - 2022" discusses the following aspects of three wheeler in global market:

- Three Wheeler Market Size, Share & Forecast
- Segmental Analysis - By Vehicle Type (Passenger Carrier and Load Carrier), By Region
- Pricing & Competitive Analysis
- Changing Market Trends & Emerging Opportunities

## **Global Automotive Wiper Motors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/07

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/592340](http://www.giiresearch.com/ce/592340)

A wiper motor is an essential part of a wiper system, which is an electromechanical component. The windshield wiper is the most widely and commonly used accessory used in the automotive industry. It is used to clean vehicle windshields for the driver to have a clear, unobstructed view of the road. The electric wiper motor moves back and forth and sweeps debris, water, and snow from the windshield. The windshield wiper motor powers the wipers that clean the windshield. A linkage is used to convert the rotational output of the windshield wiper motor into the to-and-fro motion of the wiper blades.

Technavio's analysts forecast the global automotive wiper motors market to grow at a CAGR of 3.13% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive wiper motors 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 Motorcycle Braking System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/592339](http://www.giiresearch.com/ce/592339)

Brake is a mechanical device that stops a moving system. It works based on the first law of thermodynamics. Braking system plays a prime role in motorcycles in terms of safety, and each motorcycle has a braking system each in front and rear wheel. The market for braking systems has evolved significantly in the past decades. Motorcycle braking system is categorized into two types: disc brake and drum brake. The motorcycle braking system market has been segmented based on the type of motorcycles such as commuter, mid-weight, and heavy weight motorcycles.

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

Covered in this report

The report covers the present scenario and the growth prospects of the global motorcycle braking system 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.

## **Electric Vehicles and Fuel Cell Vehicles: Global Markets to 2022**

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Pub. Date 2017/12/07

Price

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USD 9504 PDF by E-mail (Enterprise License)

[www.giiresearch.com/ce/321811](http://www.giiresearch.com/ce/321811)

After decades of expensive development and false starts, the world is finally ready for EVs. For the purpose of this report, the term "electric vehicles" includes commercial approaches such as pure battery-powered, plug-in hybrid, hybrid internal combustion/battery, range extended, and FCVs, as well as vehicles powered by developmental power sources such as supercapacitors and flywheel. In addition to cars and trucks, this report considers motorcycles, scooters, buses, neighborhood EVs, self-driving carts, military vehicles, and locomotives.

This report details actual figures for 2013 and 2016 and compound annual growth rate (CAGR) projections for 2017 through 2022 for the global and four regional markets. Power source sales and values are provided under consensus, optimistic and pessimistic scenarios. A patent analysis and discussion of power sources and vehicle components describes the areas in which research is being performed and emphasizes intellectual property issues.



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

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Pub. Date 2017/12/06

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A sensor is a device that detects changes in its environment by picking stimulus changes and sending this data to the system electronically. It is designed to detect physical, chemical, and process changes in an environment. A chassis sensor is ideally used to detect the wheel position to enable closed-loop chassis control. The chassis sensor is mounted between the chassis and the sprung components to measure the vehicle suspension travel. Other applications of chassis sensors include the pedal position, transmission gear selection, and adaptive headlight aiming systems.

Technavio's analysts forecast the global automotive chassis sensors market to grow at a CAGR of 2.85% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive chassis 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.

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**Automotive Motors Market, by Product Type (Direct Current Brushed/Brushless Motors, Stepper Motors), Application (Performance/Comfort/ Motors, Safety Motors), Vehicle Type, Commercial Vehicles, Electric Vehicle Type & Geography - Global Forecast to 2025**

Published by Coherent Market Insights

Pub. Date 2017/12/06

Price

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[www.giiresearch.com/ce/593086](http://www.giiresearch.com/ce/593086)

The automotive motors are electric systems integrated in various automotive components such as airbags, ABS, and power windows, which help enhance vehicle performance, improve safety and increase comfort of occupants. Rampant growth of the global automotive sector, especially the electric vehicle segment, along with stringent government regulations pertaining to vehicle safety are in turn, augmenting market growth.

Market Dynamics

The recent past has witnessed rising adoption of electric vehicles due to various advantages such as eco-friendly, less noise pollution, cost effective, cheaper to run and maintain. Such vehicles integrate a higher number of automotive motors and thus, growth of this segment fuels growth of the automotive motors market. According to Coherent Market Insights, around 565,668 units of electric vehicles were sold in 2015, globally up from 315,519 in 2014. China, the U.S., and Japan are some of the major countries that account for high market share in electric vehicles sales. In 2015, volume sales of electric vehicles was pegged at 214,283, 115,262 and 46,339 in China, the U.S., and Japan, respectively.

## **Global Commercial Vehicle Keyless Entry Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/06

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588976](http://www.giiresearch.com/ce/588976)

A commercial vehicle keyless entry system (CVKES) provides vehicle access without the use of the traditional mechanical key. It allows higher security and convenience by allowing the driver to unlock the vehicle while standing at a distance from it. There are two technologies involved in the system: remote keyless entry systems (RKES) and passive keyless entry systems (PKES). RKES allows the driver to lock and unlock vehicle doors by remote control. PKES is a security system that operates automatically when the user is in proximity of the vehicle.

Technavio's analysts forecast the global commercial vehicle keyless entry systems market to grow at a CAGR of 5.40% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicle keyless entry systems 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 Brake Components Aftermarket 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/06

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588979](http://www.giiresearch.com/ce/588979)

Automotive brake system helps in stopping or slowing down a vehicle. The automotive brake system is actuated by a group of hydraulic, electronic, or mechanical components. When engaged, the brake pads or shoes that are made of a friction material convert the kinetic energy produced by the wheels of the vehicle into thermal energy, which helps in stopping the vehicle. This occurs due to the transfer of a small amount of the friction material from the brake pad or shoes onto the disc, thereby leaving a dull grey coating on it.

Technavio's analysts forecast the global automotive brake components aftermarket to grow at a CAGR of 6.35% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive brake components aftermarket 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 Elastomers Market by Type (Natural Rubber, SBR, Nitrile Elastomer, EPDM, Silicone Rubber, Fluoroelastomer, Styrene Block Copolymers, TPU, TPO, TPV, TPC), Application (Tire and Non-Tire), and Region - Global Forecast to 2022**

Published by MarketsandMarkets

Pub. Date 2017/12/06

Price

USD 5650 PDF by E-mail (Single User License) ~

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[www.giiresearch.com/ce/590158](http://www.giiresearch.com/ce/590158)

The global automotive elastomers market is projected to reach USD 58.82 billion by 2022, at a CAGR of 5.0% from 2017 to 2022. The rapid growth of the automotive and transportation industry, coupled with the increasing demand for high efficiency vehicles, is the key factor driving the demand for automotive elastomers. Moreover, stringent emission regulations and the superior properties of automotive elastomers over traditional rubber, such as heat resistance, weathering and ozone resistance, flexibility, durability, aging resistance, variety, chemical resistance, and oil & gas resistance, are driving the demand for automotive elastomers. However, the high manufacturing cost of high temperature elastomers is the key challenge faced by manufacturers of automotive elastomers.

The silicone elastomers segment of the automotive elastomers market is expected to grow at the highest CAGR during the forecast period

Among various types of elastomers, the silicone elastomers segment of the automotive elastomers market is expected to grow at the highest CAGR, during the forecast period. Silicone elastomers are being rapidly adopted in various applications due to outstanding resistance to weathering and ozone, high compression set, high physiological inertness, resistance to bacteria and fungi, and high temperature stability. The main areas of application of silicone elastomers in the automotive industry are the under-the-hood components, exterior body parts such as headlamp gaskets, wiper blades, bellows, and brake protection caps, interior applications including viscous dampers, airbags, coolant and heater hoses.

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## **Global Hybrid Electric Vehicle Conversion Kit Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/06

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/588985](http://www.giiresearch.com/ce/588985)

The HEV conversion kit allows conventional vehicle to be converted into hybrid electric vehicle (HEV) or plug-in HEV (PHEV). The conversion kit allows conventional vehicles to be converted into HEVs or PHEVs. The conversion kit provides options beyond what is available from the automotive original equipment manufacturers (OEMs). The development of the conversion kit is allowing the conversion of light and heavy-duty vehicles into hybrid vehicles in an economical and reliable manner. However, conversion kits are not limited to hybrid alone; they are scalable to convert a conventional vehicle to complete EV.

Technavio's analysts forecast the global hybrid electric vehicle conversion kit market to grow at a CAGR of 20.52% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global hybrid electric vehicle conversion kit 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 Adventure Motorcycles Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/06

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588998](http://www.giiresearch.com/ce/588998)

Motorcycles vary according to design and serve various purposes such as cruising, long-distance travel, commuting, sport or racing, and off-road riding. Hildebrand & Wolfmuller became the first series of motorcycles produced in 1894. In most developing countries, motorcycles are preferred as they provide fuel economy and cost-effectiveness. Globally, APAC is the largest market for motorcycles and accounts for a market share of more than 90% of the global motorcycle market. Adventure motorcycles are a subset of dual sports motorcycles. Both these are designed to be ridden off-road as well as on asphalt. Adventure motorcycles fall more toward the street bikes segment but, the significance of long ride comfort can also be used for light trail off-roading. Dual sports motorcycles incline more toward the motocross segment with off-roading features.

Technavio's analysts forecast the global adventure motorcycles market to grow at a CAGR of 10.08% during the period 2017-2021.

**Global Automotive Camera Module Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/06

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/260012](http://www.giiresearch.com/ce/260012)

ACMs are devices that are installed in the front, rear, and sides of vehicles to provide maximum information to the driver about the surroundings to prevent accidents. Types of dash cameras: Basic dash cameras, Advanced dash cameras, and Dual cameras. Basic dash cameras are hard-wired into a vehicle's electrical system and are used to record the driving sessions. Advanced dash cameras help in locating vehicles and in maintaining recommended speed limits. Dual cameras have a typical setup in which one camera faces outward, and the other records the interior of the vehicle.

Technavio's analysts forecast the global automotive camera module market to grow at a CAGR of 21.54% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive camera module market for 2017-2021. To calculate the market size, the report considers camera module installed in new shipments of passenger and commercial vehicles.

## **OEM Strategies for Particulate Matter (PM) Emission Reduction in Direct Injection Gasoline Engines, 2017-2022**

Published by Frost & Sullivan

Pub. Date 2017/12/05

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/594930](http://www.giiresearch.com/ce/594930)

*In-cylinder Optimizations With Gasoline Particulate Filter (GPF) to Play a Key Role for OEMs to Achieve the Long-term Goal of PM Reduction*

*The aim of this study is to research, analyze, and represent the particulate emission control strategies of key global OEMs for powertrain technologies in vehicles with direct injected gasoline engines. The prime objectives of this study are:*

- *Providing a strategic overview of the European and North American powertrain approaches for PM emission reduction;*
  - *Discussing the role of combustion optimization technologies, fuel system changes, particulate filters, and other technologies for PM reduction and their relative significance at different OEMs;*
  - *Listing key technology trends, market drivers, restraints, and challenges for PM reduction systems covered as part of this study; emphasizing the effectiveness of these systems as an emission reduction technology, discussing the suitability of these under different applications;*
  - *Profiling OEMs, including their PM control approaches for GDI engines in the current and future portfolio, technology preferences, technology, and development strategies.*
-

## **Strategic Analysis of Global Market for Electric Motors for xEVs, Forecast to 2025**

Published by Frost & Sullivan

Pub. Date 2017/12/05

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/599155](http://www.giiresearch.com/ce/599155)

*This research service focuses on the market sizing and the regional analysis of adopting electric motors for electric/hybrid vehicles. Research Scope (Base year 2016, Study period 2013-2025, Forecast period 2017-2030) Geographical Scope (Europe: Denmark, France, Germany, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, and the United Kingdom, China, South Korea, North America: The United States & Japan).*

### Table of Contents

1. EXECUTIVE SUMMARY
  2. RESEARCH SCOPE, OBJECTIVES, BACKGROUND, AND METHODOLOGY
  3. GLOBAL MARKET SIZING OF ELECTRIC VEHICLES (XEVS)
  4. MARKET SIZING AND TRENDS IN ELECTRIC MOTORS FOR XEVs
  5. REGIONAL ANALYSIS
  6. EMOTOR SOURCING TRENDS
  7. OEM PROFILE-GENERAL MOTORS
  8. OEM PROFILE-BMW
  9. OEM PROFILE-DAIMLER
  10. OEM PROFILE-RENAULT NISSAN
  11. OEM PROFILE-FORD
  12. OEM PROFILE-VOLKSWAGEN
  13. OEM PROFILE-TOYOTA
  14. OEM PROFILE-TESLA
  15. GROWTH OPPORTUNITIES AND COMPANIES TO ACTION
  16. KEY CONCLUSIONS AND FUTURE OUTLOOK
  17. APPENDIX
-

**Automotive Pressure Sensors Market by Application (ABS, Airbag, TPMS, Engine, HVAC, & Transmission), Technology (MEMS, Strain Gauge, & Ceramic), Transduction (Piezoresistive, Capacitive, Optical, Resonant), Vehicle, EV, Region - Global Forecast to 2025**

Published by MarketsandMarkets

Pub. Date 2017/12/05

Price

USD 5650 PDF by E-mail (Single User License) ~

USD 10000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/590152](http://www.giiresearch.com/ce/590152)

The global automotive pressure sensors market is estimated to be USD 4.21 billion in 2017 and is projected to reach USD 8.84 billion by 2025, at a CAGR of 9.70%. MEMS-based sensors have proved to be the perfect solution in the field of automotive, where there is a growing need for smaller form factor for sensors with improved performance. Hence, the MEMS technology plays a pivotal role in downsizing the structure of automotive pressure sensors. Today's top-end vehicles constitute up to 100 different types of sensors, of which 30 would be MEMS sensors. Pressure sensors acquire the largest part of MEMS sensors for automotive applications. A complex manufacturing process and reliability of the product can hinder the growth of the market.

"Piezoresistive pressure sensors is estimated to hold the largest market share in terms of transduction type in 2017"

The technological evolution of the automotive semiconductor industry is revolving around piezoelectric automotive applications. The demand for higher fuel efficiency and better safety features with tech-savvy semiconductor components would, in turn, increase the demand for piezoresistive materials and components. Hence, technological advancement would create a plethora of opportunities for manufacturers of components like pressure sensors to attain a high level of efficiency and robustness.

**Global Container Stacking Cranes Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/05

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588971](http://www.giiresearch.com/ce/588971)

Container stacking cranes are used in port and warehouses, and container terminals for handling all kinds of containers (for loading and unloading intermodal containers). Container stacking cranes have maneuverability and can turn in tight spaces while traveling inside warehouses, under awnings and up to docks. Compared with the conventional container equipment, cranes have lower capital, operating, and maintenance costs, and lower tire wear and fuel consumption. The units' low ground pressure further reduces tire wear. In addition, the units do not require specialized paving or flooring.

Technavio's analysts forecast the global container stacking cranes market to grow at a CAGR of 4.60% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global container stacking cranes 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 Speed Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/04

Price

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USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588958](http://www.giiresearch.com/ce/588958)

A sensor is a device that detects the changes occurring in the immediate environment by sensing the stimulus change and updates the system electronically. Sensors are used in various industries such as chemical and automotive. A sensor sends electronic signals that are measured and recorded. Based on the given information, a corrective change is executed. There are various types of automotive sensors, such as pressure sensors, wheel speed sensors, temperature sensors, fluid level sensors, and emission sensors. The global automotive industry consists of passenger cars, which are mainly used for personal mobility. The commercial vehicles segment is further classified into light commercial vehicles (LCV) and heavy commercial vehicles (HCV), which are primarily used for commercial purposes. There has been a sharp rise in the production of passenger cars due to rise in population, along with changing lifestyle and growing income of the people in developing countries, such as India, China, and other APAC countries. With the increase in disposable income and changing lifestyle in developing countries, passenger cars have become a necessity for mobility and no longer a status symbol.

Technavio's analysts forecast the global automotive speed sensor market to grow at a CAGR of 2.98% during the period 2017-2021.

**Advanced Driver Assistance Systems (ADAS) Market (By Type: By Technology; By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015 - 2024**

Published by Variant Market Research LLP

Pub. Date 2017/12/04

Price

USD 3195 Data Pack ~

USD 7695 PDF by E-mail (Global License)

[www.giiresearch.com/ce/599383](http://www.giiresearch.com/ce/599383)

As per the latest report published by Variant Market Research, Global Advanced Driver Assistance Systems (ADAS) Market is estimated to reach \$62.7 billion by 2024; growing at a CAGR of 10.8% from 2016 to 2024. Advanced driver assistance systems, or ADAS, are systems to assist the driver in the driving procedure. ADAS are developed to automate, adapt, and enhance vehicle systems for safety & improved driving. Key factors accountable for the growth of ADAS market comprise the introduction of driver support technologies in mid segment cars, and the rising awareness regarding vehicle & pedestrian safety. ADAS technologies assist everyday driving tasks by reducing the demands on the driver and adding comfort, which helps enhance luxury and comfort, complementing safety with these benefits.

Some of the factors driving the growth of global advanced driver assistance systems market are strict government protocols, and consumer preferences shifting towards active safety features & advanced technology. However, pricing pressure, inflation, and complexity in testing systems are the factors hampering the market growth. Furthermore, deployment of ADAS in low-cost cars, and improved socio-economic conditions resulting in an increasing demand for luxury cars is expected to pose numerous growth opportunities for the market in the forthcoming years.



## **Global Automotive Adhesive Tapes Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/04

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588953](http://www.giiresearch.com/ce/588953)

An automotive adhesive tape refers to a backing or a support material that is coated with an adhesive and is used to bind two different components of an automobile. They are used for wire harnessing, surface protection, electrical insulation, and device shielding. Automotive adhesive tapes are divided into four different product types such as PVC tapes, polyester tapes, polypropylene tapes, and other products. PVC tapes hold the maximum share of the market as their applications and use are higher compared with other types of automotive tapes.

Technavio's analysts forecast the global automotive adhesive tapes market to grow at a CAGR of 5.92% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive adhesive tapes 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 Displacement Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/04

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/588955](http://www.giiresearch.com/ce/588955)

A sensor is a device that detects an input and responds accordingly. It is designed to identify changes in the external environment, which can be chemical, physical, or any other process changes. The working principle of automotive sensors is that they send out electronic signals, which are measured, recorded, and responded to accordingly. Different types of sensors such as pressure, wheel speed, temperature, position, displacement, fluid level, and emission sensors are used in automotive applications.

Technavio's analysts forecast the global automotive displacement sensor market to grow at a CAGR of 6.46% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive displacement sensor 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.

## **Growth Opportunities in the Global Automotive Electronic Control Unit Market**

Published by Lucintel

Pub. Date 2017/12/02

Price

USD 4850 Web Access (Single user license) ~

USD 8850 Web Access (Corporate License)

[www.giiresearch.com/ce/594913](http://www.giiresearch.com/ce/594913)

The future of the global automotive ECU market looks promising with opportunities in the passenger car, light commercial vehicle, and heavy commercial vehicle segments. The global automotive ECU market is expected to reach an estimated \$58.4 billion by 2023 and it is forecast to grow at a CAGR of 6.0% from 2018 to 2023. The major drivers of growth for this market are increasing electronic content per vehicle, increasing vehicle production, and increased stringent government regulations for passenger safety.

Emerging trends, which have a direct impact on the dynamics of the automotive electronic control unit industry, include the integration of multiple ECUs to reduce cost, and the development of ECUs for autonomous driving.

A total of 128 figures / charts and 100 tables are provided in this 194 -page report to help in your business decisions.

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

Published by Information Network

Pub. Date 2017/12/01

Price

USD 2495 PDF by E-mail ~

USD 2595 PDF by E-mail & Hard Copy

[www.giiresearch.com/ce/421956](http://www.giiresearch.com/ce/421956)

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.

Battery pack prices are expected to halve to \$215 per kilowatt hour by 2020 from \$400/kWh now. Due to the rapid decline in this cost Exane BNP Paribas predicted that by 2025 automakers will generate bigger profit margins from EVs than from cars with internal combustion engines. As EV growth escalates, the industry would need a global battery production capacity of 600 gigawatt hours, enough to build 8.6 million cars with an average battery size of 70kWh.

## **Global Analysis of Infotainment and HMI Strategy for Mass Market OEMs, 2017**

Published by Frost & Sullivan

Pub. Date 2017/12/01

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/596069](http://www.giiresearch.com/ce/596069)

*The automotive industry is reliant on the infotainment market, as HMI plays a key role in the interaction between users and the vehicle. Key HMI technologies that dominate the mass market include large touchscreen interfaces with touch gestures, hybrid instrument clusters and connected navigation to name a few. Although availability of advanced HMI solutions such as air gestures and HUDs are restricted to luxury OEMs, mass market OEMs are offering value for money solutions to entice customers. The study includes OEM's current infotainment; multimedia features, output and input HMI are benchmarked across selected models in their range. The flagship from each OEM's portfolio is analysed and their features are listed out. Major HMI trends are analysed along with their advantages, suppliers and OEM adopting the specific technology. Highlights of the market participant's connected services are discussed along with the services offered by each OEM.*

## **Impact of Autonomous Driving on Steering Development Technology in Europe and North America, 2017**

Published by Frost & Sullivan

Pub. Date 2017/12/01

Price

USD 4950 Web Access (Regional License)

[www.giiresearch.com/ce/596068](http://www.giiresearch.com/ce/596068)

*Electric power steering (EPS) is more or less a standard fitment across most of the vehicle models. However, autonomous driving poses several interesting challenges to the steering technology community. First, once vehicles start to operate by themselves, steering systems will expect to cater to loss-of-assist mitigation in order to provide a safety net as and when the EPS powerpack fails to provide assist for steering the vehicle. This will therefore force steering suppliers to migrate from fail safe systems to fail operational systems for steering.*

*Second, autonomous driving does not require humans to drive the vehicle, in which case the use of steering wheel is made redundant. This then allows OEMs and steering suppliers to concentrate on technologies that will help either eliminate the steering wheel or allow the steering to retract to the dashboard if not required. Keeping these in mind OEMs have showcased future cockpit concepts, but to realize such concepts steer-by-wire must be the system of choice for OEMs.*

## **Automotive Lightweight Materials Market (By Material Type: Metals, Plastics, and Composite; By Application, By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015 - 2024**

Published by Variant Market Research LLP

Pub. Date 2017/12/01

Price

USD 3195 Data Pack ~

USD 7695 PDF by E-mail (Global License)

[www.giiresearch.com/ce/587091](http://www.giiresearch.com/ce/587091)

As per the latest report published by Variant Market Research, Global Automotive Lightweight Materials Market is estimated to reach \$169.6 billion by 2024; growing at a CAGR of 12.5% from 2016 to 2024. The automotive lightweight materials are used to decrease the weight of automotive, and are mixture of metal alloys and composites. These automotive lightweight materials have many applications in several industries such as automobile, wind, aerospace, and others. Growing demand for fuel efficient vehicles due to strict emission regulations, high demand for lightweight materials in automotive industry, technological advancements globally are the factors driving the global automotive lightweight materials market growth during the future years.

Major factors driving the global automotive lightweight materials market are growing penetration of lightweight components, high production of aircraft modules, and stringent emission and fuel economy guidelines to increase the demand for lightweight materials in automotive industry. However, high cost of carbon fiber, and instabilities in raw material prices may hamper the market growth. Furthermore, growing demand for lightweight vehicles across the globe, and current R&D in lightweight materials used in automotive would unfold with numerous growth opportunities in the forecasted years.

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

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/348212](http://www.giiresearch.com/ce/348212)

An automotive instrument panel is present in front of the driver or operator and co-passenger in the automobile. It has the controls and instruments for the operation of the vehicle. The instrument panel has engine temperature gauge, fuel gauge, tachometer, speedometer, fuel economy gauges, odometer, and various other indicators, such as seat belt warning, parking brake engagement, tire-pressure monitoring system (TPMS), and an engine malfunction indicator. It also includes the storage spaces, which owners use to store some everyday needs.

Technavio's analysts forecast the global automotive instrument panel market to grow at a CAGR of 3.02% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive instrument panel 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 Belt Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588937](http://www.giiresearch.com/ce/588937)

A belt is a loop of flexible material used to link two or more power transmitting shafts mechanically. It has multiple applications as a part of power generation and transmission in the vehicle. There are various dynamics used to manufacture automotive belts, such as two pulley systems or parallel shafts. The belt can either drive the pulley in a single direction, or the belts are crossed to achieve the reverse direction of rotation. Belts are a simple, inexpensive mode of power transmission between two shafts that are not axially aligned. Specially designed belts with specific materials aid in power transmission depending on their application.

Technavio's analysts forecast the global automotive belt market to grow at a CAGR of 3.87% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive belt 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 Telematics Control Unit Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588951](http://www.giiresearch.com/ce/588951)

TCU is an electronic device used in vehicles, which receives communication from other electronic devices, and then, interprets and disperses the data. This communication is done through CAN, the most common network found in all the cars. CAN acts as a bridge for communication between TCU and other electronic devices. TCU focuses on driver and passenger safety, provides real-time direction, gives traffic status, and supports emergency call facility in case of any accidents. TCUs are connected wirelessly with its surrounding and beyond. Generally, via a cellular modem, TCU exchange information with its surrounding.

Technavio's analysts forecast the global automotive telematics control unit market to grow at a CAGR of 10.57% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive telematics control unit market for 2017-2021. To calculate the market size, the report considers the retail selling price as the average selling price of the product.

## **Global Motorcycle Engine Management Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588927](http://www.giiresearch.com/ce/588927)

Motorcycle engine management systems consist of a set of sensors that record the state of different components of the engine and send the data to the electronic control unit, which then prioritizes the tasks for optimal engine performance. The EMS comprises ECU, electronic fuel injection, throttle control, air control, ignition control, speed sensors, and temperature sensors. An EMS unit improves fuel efficiency and reduces emissions.

Technavio's analysts forecast the global motorcycle engine management systems market to grow at a CAGR of 14.62% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global motorcycle engine management systems 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 HVAC Ducts Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588947](http://www.giiresearch.com/ce/588947)

Heating, ventilation, and air conditioning (HVAC) is a technology that is incorporated in automobiles. The HVAC system regulates the internal temperature of the vehicle cabin. Automotive HVAC systems comprise refrigeration units, blower motors, actuators, and ducts. HVAC ducts supply air to vehicle-cabin interiors via panel ducts and console-duct systems. The geometry of HVAC ducts is flexible. They are circular, rectangular, or square-shaped and are characterized by complex curves all over their length. HVAC ducts are incorporated with air quality sensors. Once the carbon monoxide and nitrogen dioxide levels in a vehicle reach the threshold value, the air quality sensors transfer the information to the HVAC system. This is followed by the initiation of the air circulation mode.

Technavio's analysts forecast the global automotive HVAC ducts market to grow at a CAGR of 5.01% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive HVAC ducts market for 2017-2021. To calculate the market size, the report considers the sales volume of automotive HVAC in OEM market.

## **Global Automotive Curtain Airbags Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/12/01

Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/357355](http://www.giiresearch.com/ce/357355)

Curtain airbags are manufactured like other airbags. The major differences between them are in terms of structure, size, and surface area. The curtain airbags usually have a larger surface area. The main components of the curtain airbags are fabric coated with lubricating powder, the sensor module, and the gas inflator. The frontal airbag mechanism functions through communication between deceleration sensors placed near the vehicle headlight, an ECU (electronic control unit), and the airbag deployment system mounted on the steering wheel.

Technavio's analysts forecast the global automotive curtain airbags market to grow at a CAGR of 6.60% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive curtain airbags 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 Airbag ECU Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Price

USD 2500 PDF by E-mail (Single user license) ~

USD 5000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/588931](http://www.giiresearch.com/ce/588931)

The electronic control unit (ECU) in automobiles (also referred to as the brain of a vehicle) refers to an embedded system that monitors and controls more than one electrical component or system present in a vehicle. The ECU receives input data from automotive sensors. With the growth in the percentage of electrification of vehicles, the number of sensors used has increased considerably. There has been a simultaneous increase in the number of ECUs installed in vehicles. A modern vehicle, of late, is equipped with about 70 ECUs.

Technavio's analysts forecast the global automotive airbag ECU market to grow at a CAGR of 6.49% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive airbag ECU 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.