

Autonomous Vehicle Market by Autonomy Level, Powertrain Type, Components, and Supporting Technologies including 5G, AI, and Edge Computing 2021 - 2026

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Abstracts

Overview:

This report assesses the autonomous vehicle market including leading vendors, strategies, product and service offerings. The report evaluates autonomous vehicles by autonomy level, powertrain type, components, and supporting technologies. It also evaluates the impact of major technologies on autonomous vehicle markets such as 5G, AI, edge computing, IoT, data analytics, and smart building integration.

Select Report Findings:

Key technology areas to leverage for service provider solutions include AI, 5G, and IoT

5G related software expenditures in support of autonomous vehicle solutions will reach \$12.9 billion by 2026

Edge computing infrastructure and services in support of autonomous vehicles will reach \$39 billion by 2026

Dedicated infrastructure for autonomous vehicles will serve as a proving ground for economic justification for autonomous vehicle ride-share and other green tech solutions

Smart city market growth and innovation will be highly correlated with autonomous and connected vehicle technology funding, R&D and developments

Driven by private and sovereign investment, certain countries outside the United States will witness surprisingly robust growth in autonomous vehicle deployments

The report provides global and regional forecasts for the autonomous vehicle market including hardware, software, and services along with emerging technologies from 2021 to 2026. The report covers major consumer and commercial categories including personal vehicles, shared vehicles (ride sharing and shared vehicles/partial ownership) and rentals. The report also evaluates autonomous control in ICE vehicles, EV, and ICE/EV hybrids.

Autonomous Vehicle Disruption of the Automotive Industry Ecosystem

Autonomous vehicles are poised to invoke a revolution in the automobile industry including public transportation systems, car rental and sharing systems, vehicle leasing and ownership, industrial transportation, and automotive insurance practices and systems.

The extent of disruption will increase with the degree of vehicle autonomy, which is measured in levels from zero (fully human operated) to five (fully automated system) with evolution from levels 1 through 4 consisting of an autopilot system combined with some level of human control or intervention capability. Autonomous vehicles are anticipated to become the foundation of transportation as a service globally.

The automotive ecosystem is also faced with disruption from electric vehicles (EV), which has transformed supply chain economics at the vehicle component level as well as consumer value perception and lifecycle management. Improvements in battery cost/performance and reduction in cost of power train components for EV will lead to lower overall purchase cost that is more comparable with traditional internal combustion engine (ICE) vehicles.

The autonomous vehicle ecosystem will also be highly disruptive with respect to the consumer segment regarding the traditional production and sales cycle. This will be due largely to the vast amount of data produced by self-driving cars, vans, and trucks. The use of AI and big data analytics will allow both real-time decision-making as well as post

event analytics.

Autonomous Vehicle Growth Factors and Constraints

The autonomous vehicle market will grow rapidly during the 2020s and will transform many industries including consumer mobility, commercial transport, industrial automation, smart cities, and transportation systems as a whole. There are many factors that will drive growth and adoption of autonomous vehicles including cost reduction, safety improvements, and incremental advances in consumer perception.

For example, the U.S. Department of Transportation has moved forward with an Automated Vehicles Comprehensive Plan with the intention of establishing policies and regulations to ensure the safe and full integration of automated driving systems into the surface transportation system. The plan includes real-world examples of how policies and regulations will relate to emerging automated driving systems applications.

The United States is not alone in the push for a robust autonomous vehicle market. China and South Korea are two leading companies in the Asia Pac region. For example, South Korea invested \$1 billion in autonomous vehicle technology with a focus on technology and infrastructure development. Companies such as Hyundai and Samsung allow South Korea to implement vehicles more seamlessly with autonomous capabilities. South Korea desires to achieve commercialization of level 4 autonomous vehicles by 2027.

In addition to overcoming public trust factors relative to safety, the autonomous vehicle market is also focused on the major consumer upsides to self-driving vehicles, which include less expensive transport, opportunities for ride sharing and fractional ownership, and ultimately reduced outright leasing and ownership of cars, vans, and trucks. This is anticipated to have a major impact on OEMs and traditional automakers, despite the fact that market leading automobile manufacturers are aggressively pursuing autonomous vehicle product offerings.

The above-mentioned market forces, availability of cost-effective and safe technology, and appropriate governmental oversight are all key factors coming together to enable a robust autonomous vehicle ecosystem. Accordingly, the autonomous vehicle market is beginning to move into the next market cycle beyond the early-adopter phase. Mind Commerce estimates indicate end-users will not fully embrace self-driving vehicles until the 2027 time-frame.

Juxtaposition of Fully Autonomous Vehicles, Connected Drivers and Passengers

Paradoxically, automotive vendors are also continuously upgrading their fleets to offer more connected vehicles, which provide drivers with a substantially more safe, enjoyable, and informative driving experience. However, autonomous vehicles are also connected via IoT technologies and various broadband and narrowband wireless solutions.

In the near future, Mind Commerce anticipates that automobile vendors will offer next generation connected vehicle apps to human occupants within autonomous vehicles that capitalize upon hands-free operation, and in some cases, offer fully immersive experiences for longer trips.

Autonomous Vehicles for Commercial Fleets and other Business Operations

The evolution of self-driving vehicles for the fleet market will be human controlled fleets to machine/human-controlled fleets to completely autonomous (e.g. machine-driven) vehicles that leverage various technologies including sensors, AI, cognitive computing, geo-fencing, GIS/mapping, and more. Ultimately, the market will achieve level 4 autonomy, which is similar to level 3, but the human behind the wheel is considered to be a “passenger” rather than a “driver.”

Market leading autonomous vehicle use cases will be found primarily within the business realm with an emphasis on shipping and commercial fleets. Important within this segment is heavy haul trucking, which refers to the transport of oversize or overweight freight equipped with specialized trailers and transporting heavy equipment.

Target Audience:

AI Companies

Automobile Industry

Application Developers

Big Data and Analytics Companies

Communication Service Providers

Cloud and IoT Product and Service Providers

Consultant and System Integration Companies

Report Benefits:

Understand the autonomous vehicle ecosystem and identify emerging opportunities

Identify how rob-taxis and shared-ride services will be transformed by self-driving vehicles

Evaluation of consumer, enterprise, industrial and government sectors for self-driving vehicles

Identify major vendors, strategies, and solutions for autonomous vehicle solutions, products, and services

Forecasts for autonomous vehicle market (global and regionally) including hardware, software, and services 2021 – 2026

Understand how technologies such as AI, and Smart Building Integration will accelerate the adoption of autonomous vehicle

Understand how autonomous vehicles evolve from level 3 type conditional automation to level 5 type fully automated system

Companies in Report:

Almotive

Alibaba (SAIC Motors)

Alphabet Inc. (Waymo)

Amazon.com Inc.

Apple Inc.

APTIV

Arbe Robotics

Audi AG

Aurora

Autoliv Inc.

Autotalks Ltd.

Baidu Inc. (NIO)

Beijing Trunk Tech Co. Ltd.

Blackberry QNX

BMW AG

Cisco System Inc.

Cognata

Cohda Wireless

Commsignia

Continental AG

Cruise LLC

DAF Trucks

Daimler AG (Mercedes Benz)

Deep Vision

Deepmap

Deepscale

DENSO Corporation

Didi Chuxing Technology Co. Ltd.

Fiat Chrysler Automobiles

Ford Motor Company

General Motors

GrabTaxi Holdings Pte. Ltd.

Groupe PSA

Groupe Renault

Hitachi

Honda Motor Company Ltd.

Huawei Technology Co. Ltd.

Hyundai

Idriverplus

Innoviz Technologies

Innovusion

Intel Corporation (Mobileye)

IVECO

Jaguar Land Rover

LeddarTech

Lyft Inc.

Magna International Inc.

Metawave

Microsoft Corporation

Mighty AI

Mitsubishi Motors Corporation

Nikola Corporation

Nissan Motor Corporation

Nuro

NVidia Corporation

NXP Semiconductors NV

PACCAR

Panasonic Corporation

Porsche AG

Prophesee

Robert Bosch GmbH

Robosense

Samsung Electronics Co. Ltd.

Scania AB

Telefonaktiebolaget LM Ericsson

Tencent

Tesla Inc.

Toshiba

Toyota Motor Corporation

Uber Technologies Inc.

Valeo

Velodyne Lidar, Inc.

Visteon

Volkswagen AG

Volvo Car Corporation

Voyage

WeRide

Zenuity

ZF Friedrichshafen

Zhejiang Geely Holding Group

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