



Autonomous transport devices

Road, air or other vehicles that sense their environment and navigate without human input



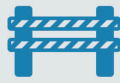
Trends shaping the landscape

- Different levels of automation already exist in a variety of transportation modes; fully autonomous vehicles are not expected to be deployed until the mid-2030s, though forecasts vary.
- There has been an increased market interest and activity in autonomous vehicles since 2013.



Drivers

- Improved safety
- Fuel efficiency
- Commuter productivity
- Reallocation of land



Barriers

- Low consumer trust
- Cybersecurity, privacy risks
- Increased urban congestion
- Regulatory and infrastructure constraints



Sectors impacted

- Transport and logistics
- Insurance
- Real estate and hospitality
- Public services (including emergency services)



Socio-economic implications

- The potential for job losses is a common fear. However, experts argue that while professional drivers' tasks may change, there will still be a role for humans in transport in the near future.
New jobs requiring technical skills may be created and may have some additional benefits over existing transport sector jobs, though training, re-skilling or upskilling would be required.
- Autonomous transport devices promise better safety for drivers and passengers.
- Technical and natural challenges could prevent passengers from accomplishing other tasks.
- Some ethical issues could arise due to the algorithms used for autonomous transport.