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# Autonomous Vehicles... the Future of Transportation



## Autonomous Vehicles (AV)

**Autonomous Vehicles (AV)** use advanced technology such as sensors cameras and Artificial Intelligence (AI) to navigate roads without human input.

## How Autonomous Vehicle Technology Works

To navigate roads and make decisions based on their surroundings AV relies on:

- Laser Imaging Detection and Ranging (LiDAR)
- Global Positioning System (GPS)
- machine learning algorithms.

# The Benefits of AV

Autonomous vehicles offer numerous benefits to society, including:

- fewer accidents caused by human error
- reduced traffic congestion
- increased accessibility for people who cannot drive.

**ACTIVITY:** What, if any additional benefits to AV's can you think of?

1. Go to the DISCUSSION BOARD and post your thoughts.
2. Comment on someone else's post.

## Cruise

**Cruise**, the product of collaboration with parent company GM and investor Honda is designed for a ride-sharing service. The shuttle-like vehicle with Cruise's trademark orange and black colors has no steering wheel or pedals and travels at highway speeds. Commercial services are expected to open to the public late 2023. Get ready to Cruise!

### READING:

Go to <https://getcruise.com/about/> to learn more about Cruise.



## Practice

AV

Autonomous Vehicle

## Benefits of AV

- fewer accidents caused by human error
- reduced traffic congestion
- increased accessibility for people who cannot drive.

## Cruise

Ride-sharing service  
Autonomous Vehicle

LiDAR

Laser, Imaging, Detection and  
Ranging

## Knowledge Check

Answer the following question to assess your understanding on this section of the course.

Which of the following are benefits of Autonomous Vehicles?

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☐

fewer accidents caused by human error

☐

increased accessibility for people who cannot drive

☐

moral machine dilemma

☐

reduced traffic congestion

SUBMIT

## Key Words

- AI - Artificial Intelligence
- AV - Autonomous Vehicle
- Cruise - Share-riding Autonomous Vehicle
- LiDAR - Laser, Imaging, Detection and Ranging

## Resources

1. GetCruise. <https://getcruise.com/about/>
2. National Highway Traffic Safety Administration (.gov).  
<https://www.nhtsa.gov/technology-innovation> › auto

CONTINUE