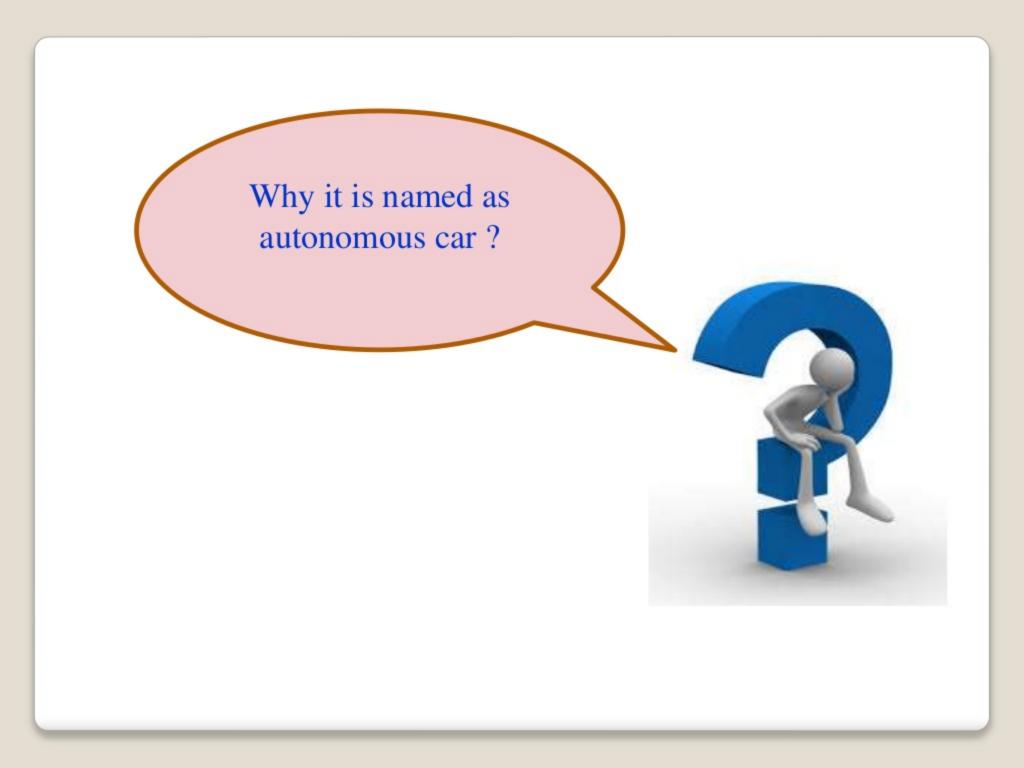
AUTONOMOUS CAR:

The future of automobile technology.....





- □It can drive itself with out assistance from a driver
- ☐It can steer itself while looking out for obstacles.
- ☐It can accelerate itself to the correct speed limit.
- ☐ It can obey the traffic rules by itself ☐ It can take its passengers automatically wherever it wants.



No human intervention **Availability of Capacity of two** LIDAR, GPS, passengers **Gyroscope** No steering wheel **Hardware Sensor** No pedal No accelerator

The HISTORY of autonomous vehicles.

Self-propelled torpedo in the 1860s



Flying Carpet, by Viktor M. Vasnetsov, 1880. By 130 BC, a magic carpet supposedly flew King Phraates II of Parthia to battle. Flying carpets have graced folktales from Russia to Iraq. They combine two once-fantastic dreams: autonomous vehicles, and flight. Credit: Wikimedia Commons



EECTRICITY MAY BE THE DRIVER. One day your car may speed along an electric super-highway, its speed and steering automatically controlled by electronic decises embedded in the cond. Travel will be more enjoyable. Highways will be made safe—by electricity! No traffic jame... no collisions... no driver latigue.

Driverless Car of the Future, advertisement for "America's Electric Light and Power Companies," Saturday Evening Post, 1950s. Credit: The Everett Collection.

SELF-DRIVING CARS TODAY



The Navia may be the first commercially available self-driving car. Designed to shuttle passengers around a closed campus, its low 12mph top speed lets it make a full stop for unexpected obstacles. Credit: Induct Technology



GOOGLE HITS THE ROAD



Technologies USED IN Autonomous CAR

Electronic stability control

Lane departure warning system

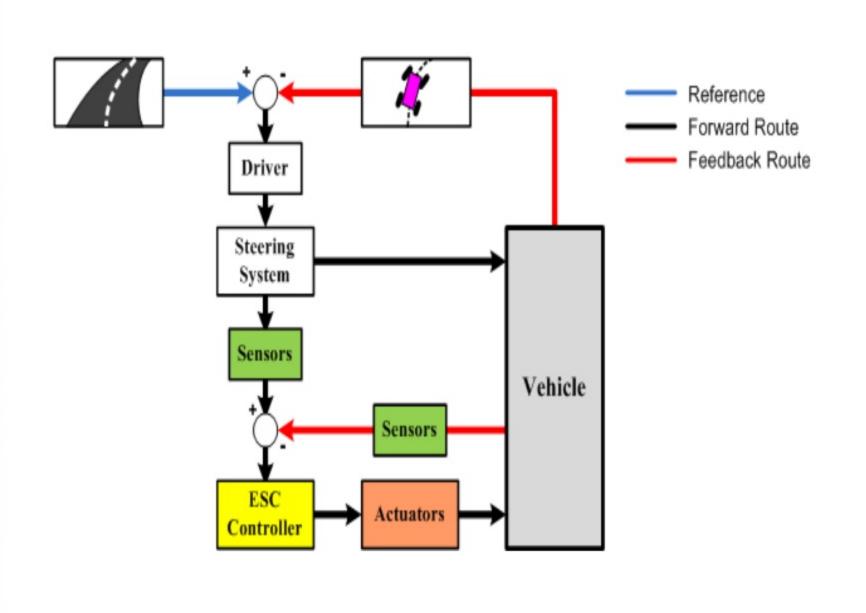
Hardware sensors

Self Parking

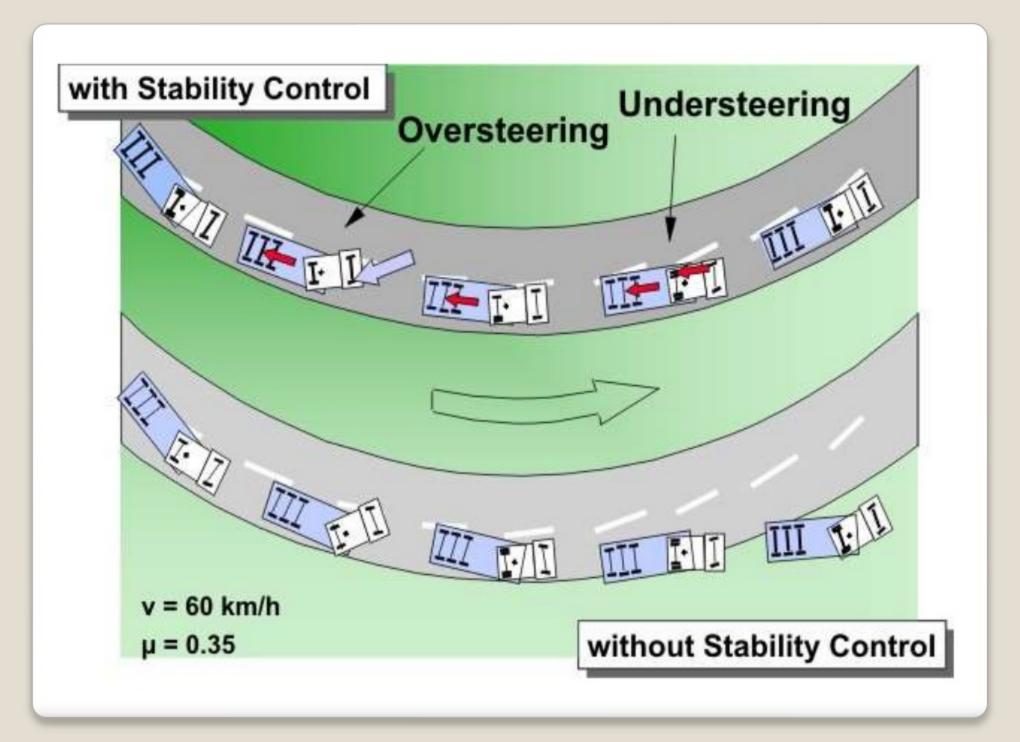
Anti-lock Brakes

Cruise control

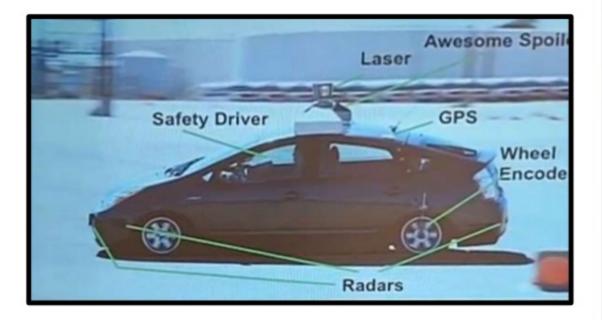
ELECTRONIC STABILITY CONTROL (ESC)



- ➤ It is a computerized technology that improves the safety of a vehicle's stability by detecting and reducing loss of traction.
- During normal driving ,ESC works in the background and continuously monitors steering and vehicle direction.
- >It compares the driver's intended direction to the vehicle's actual direction .
- ➤ESC can work on any surface, from dry pavement to frozen lakes.



Hardware sensors



ECONOMIST VIEW

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