

AUTONOMOUS CAR:

The future of automobile technology.....

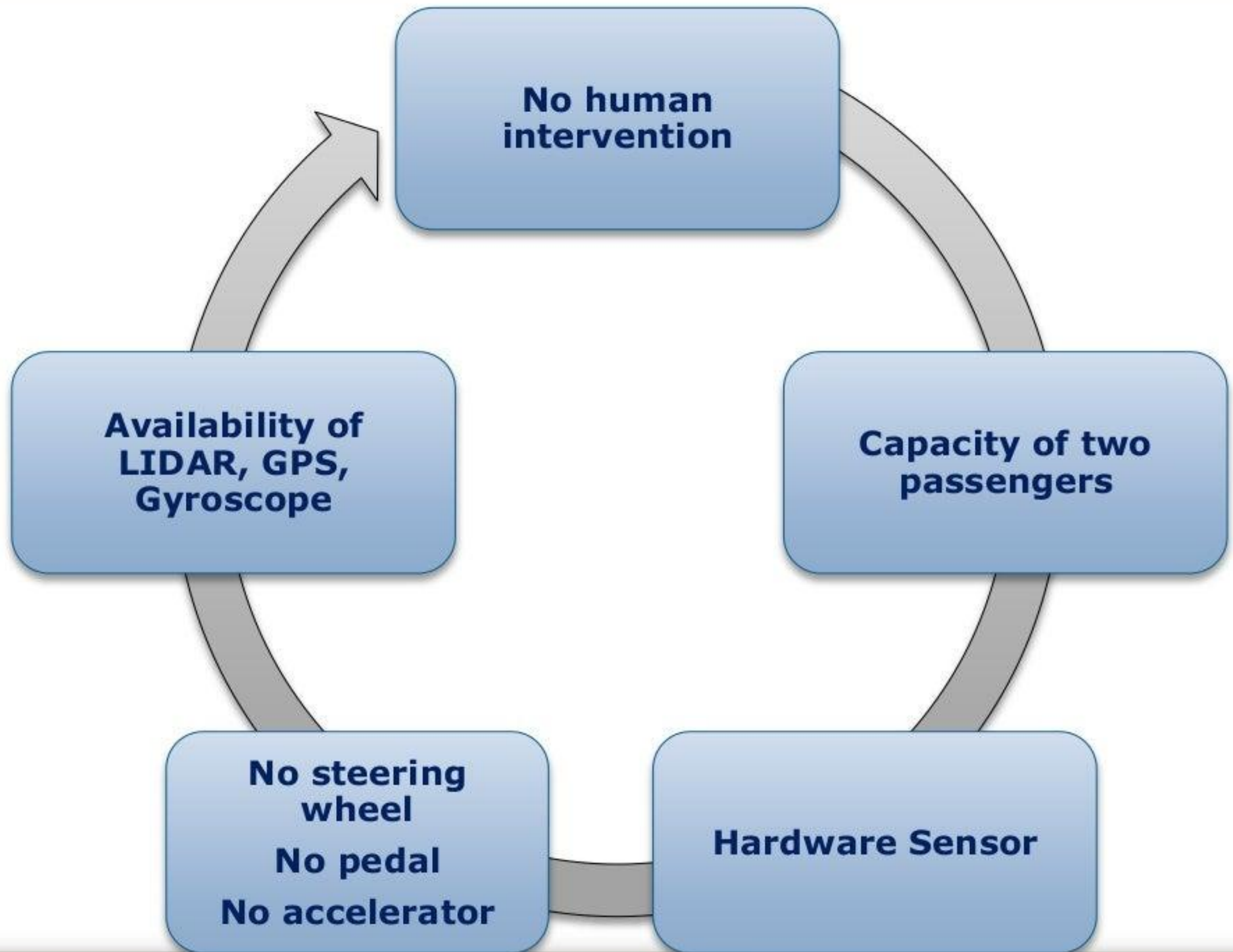


Why it is named as
autonomous car ?



- ❑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.**



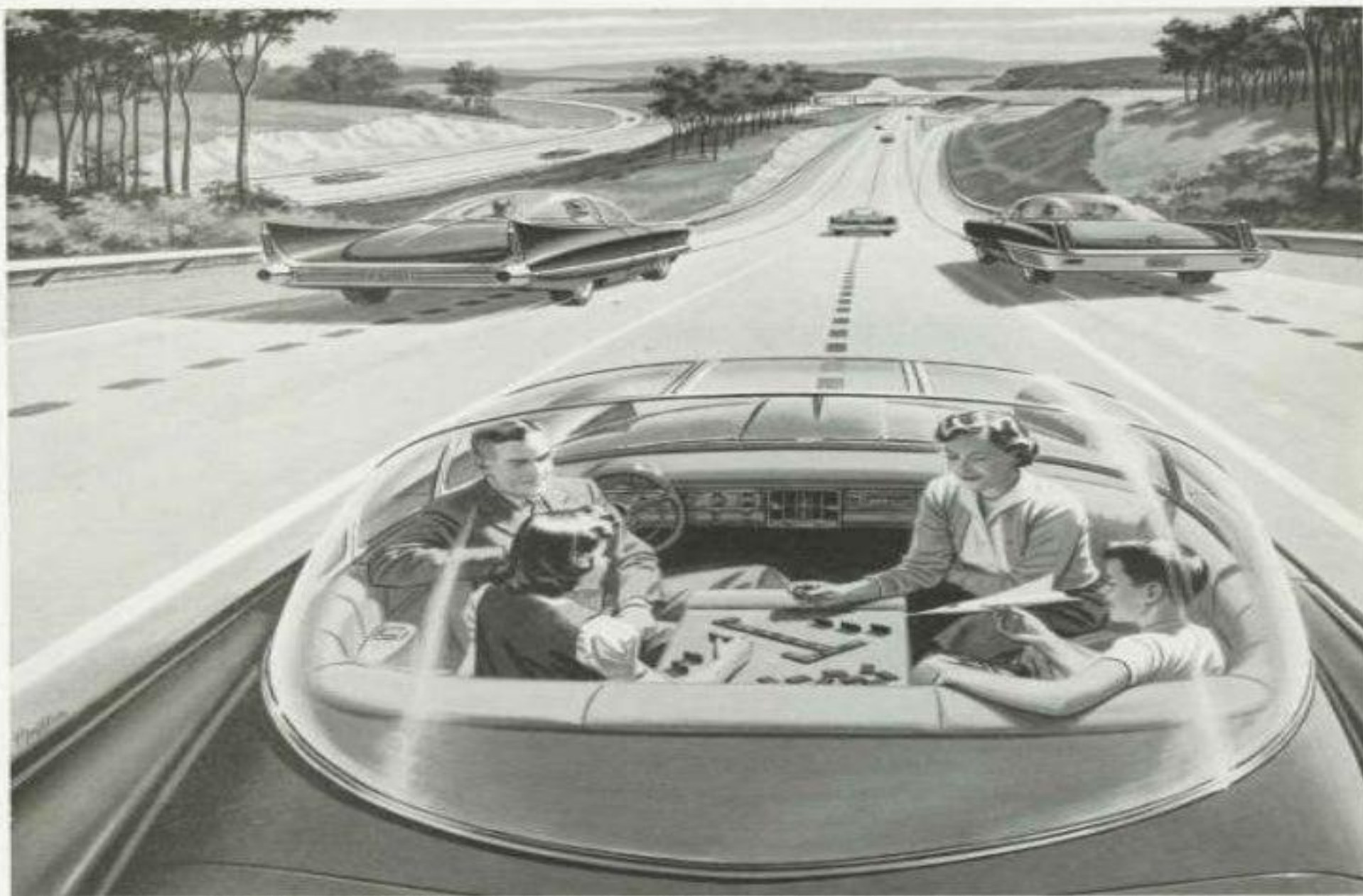


The HISTORY of autonomous vehicles:

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



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

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**

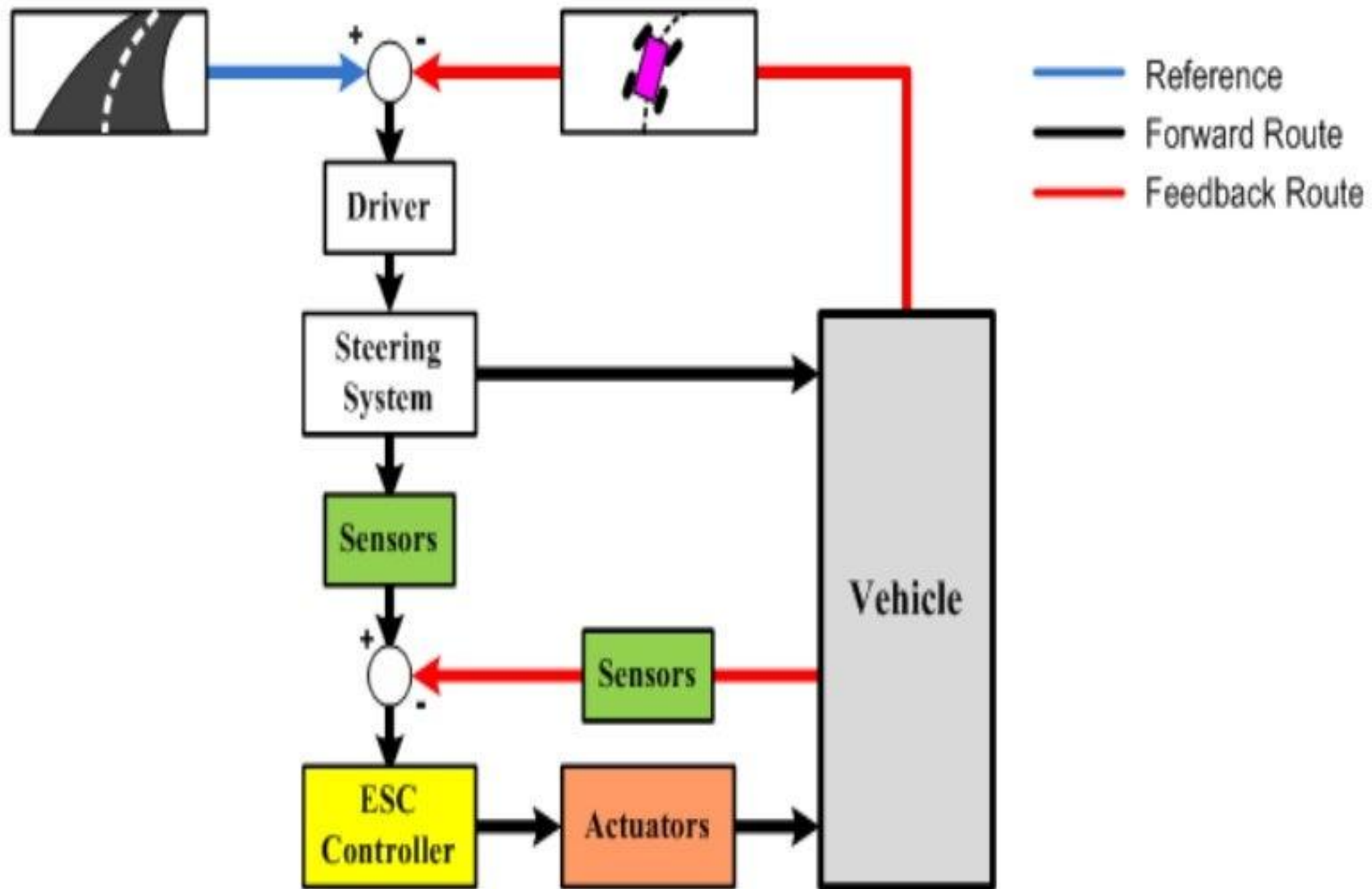
Self Parking

**Anti-lock
Brakes**

Cruise control

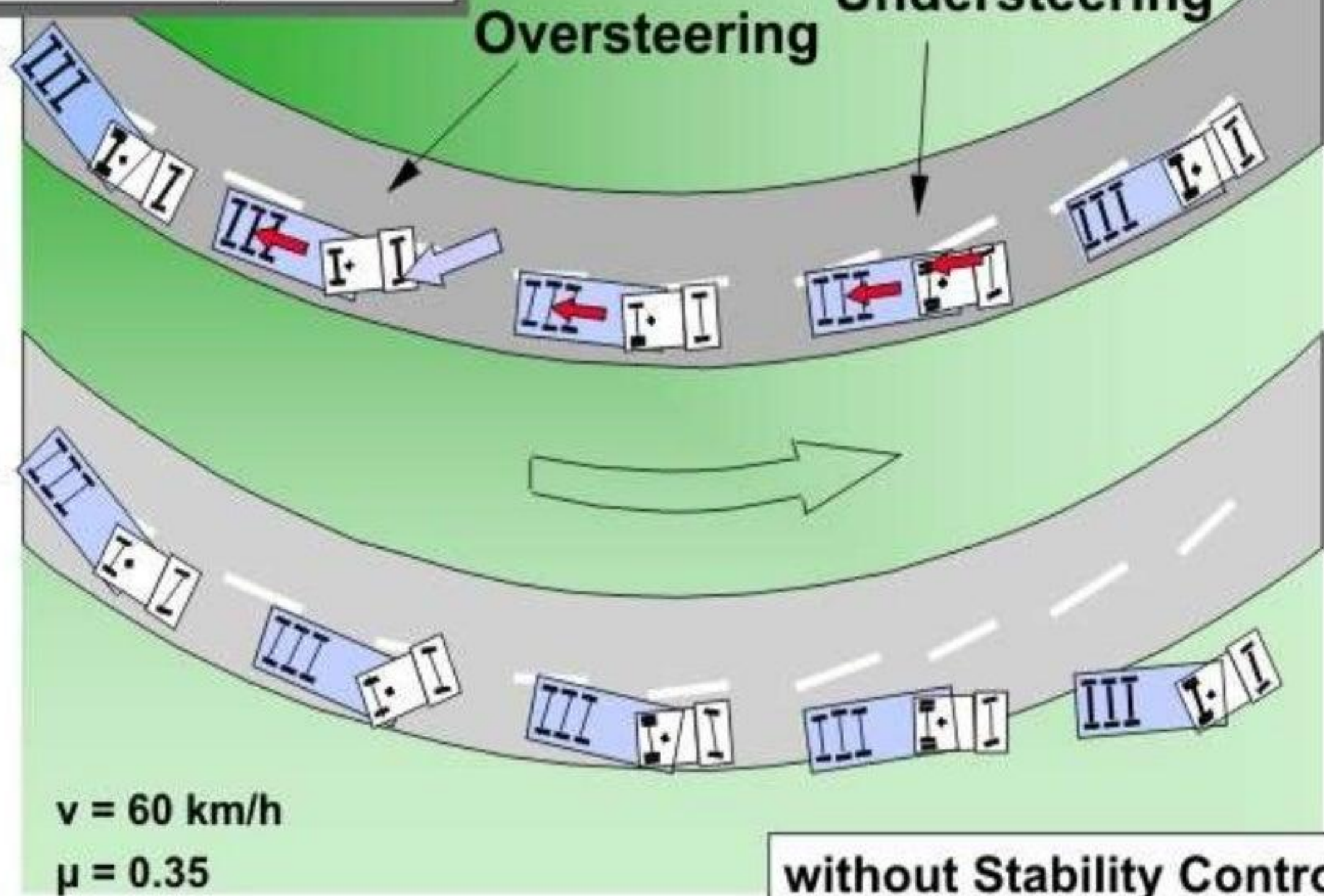


ELECTRONIC STABILITY CONTROL
(ESC)



- 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.

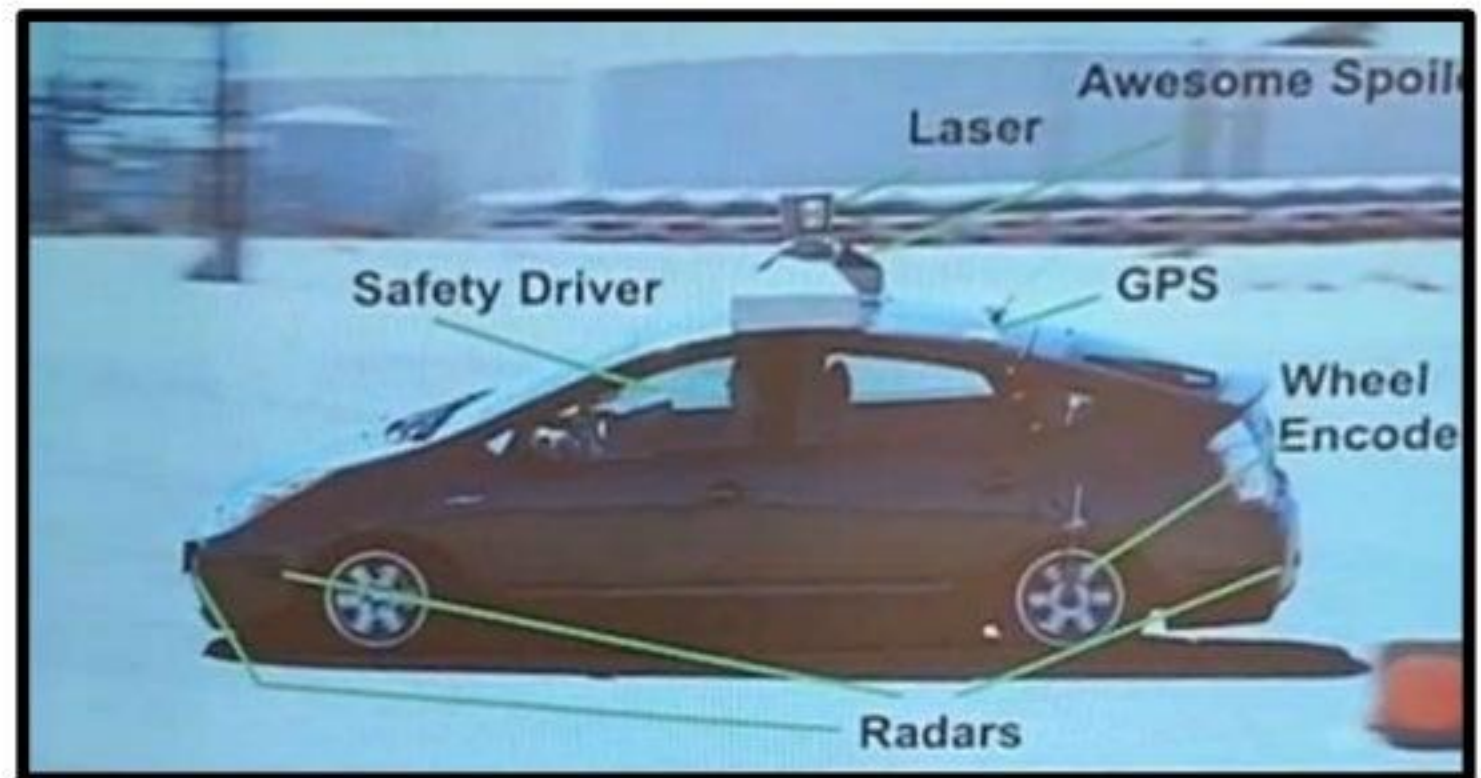
with Stability Control



without Stability Control

Hardware sensors

- ❖ LIDAR
- ❖ GPS
- ❖ GYROSCOPE
- ❖ VIDEO CAMERA
- ❖ POSITION ESTIMATOR
- ❖ DISTANCE SENSOR



ECONOMIST VIEW

commerce planning communication energy trade policy business
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banking region