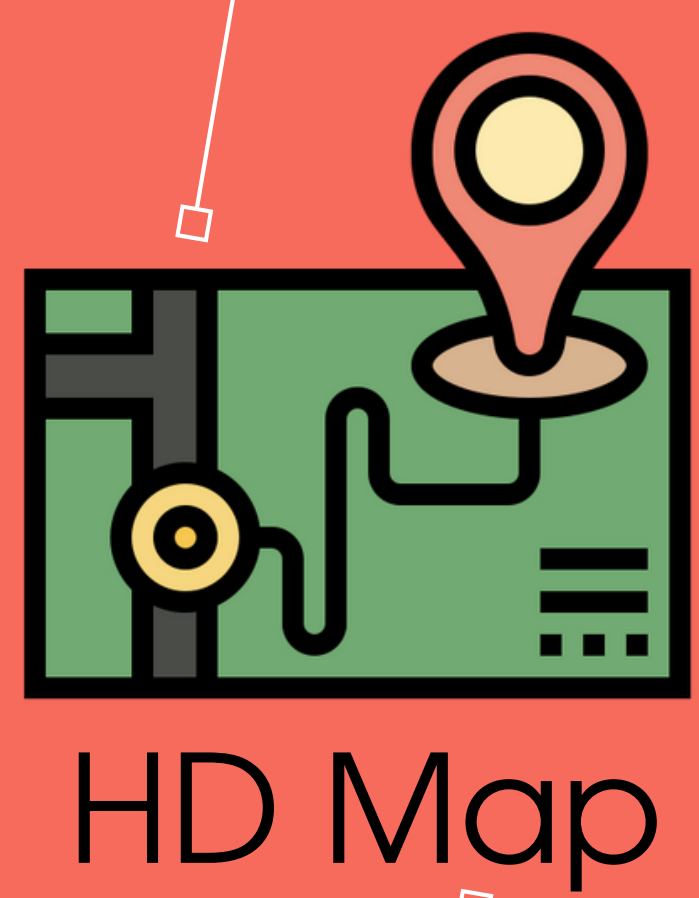# RUO

Research on

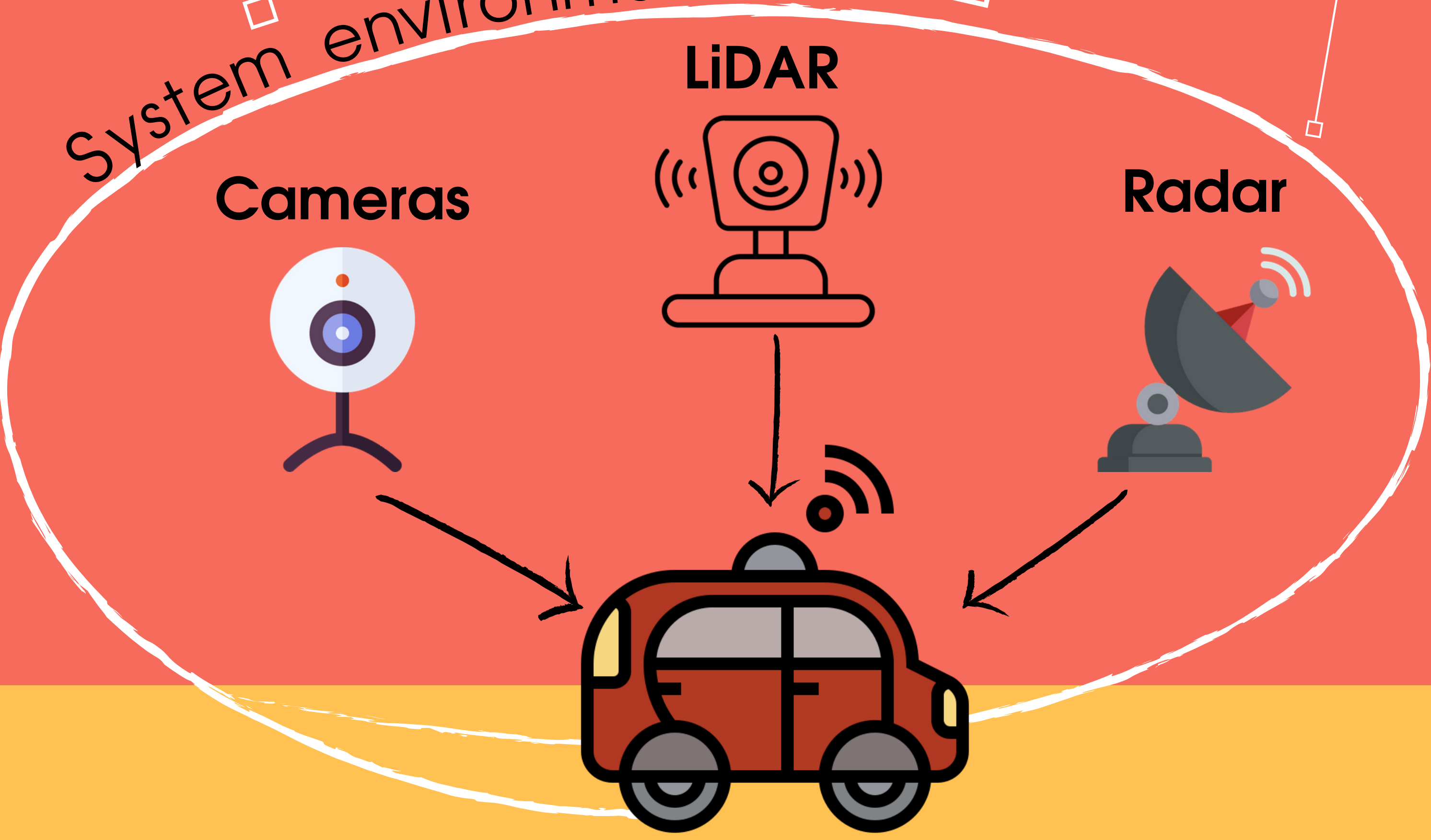# AUTONOMOUS CARS

and its effects on society, infrastructure and social behaviour

ONE WAY

Other autonomous cars

Cloud platform

HOW DOES IT WORK?

HD Map
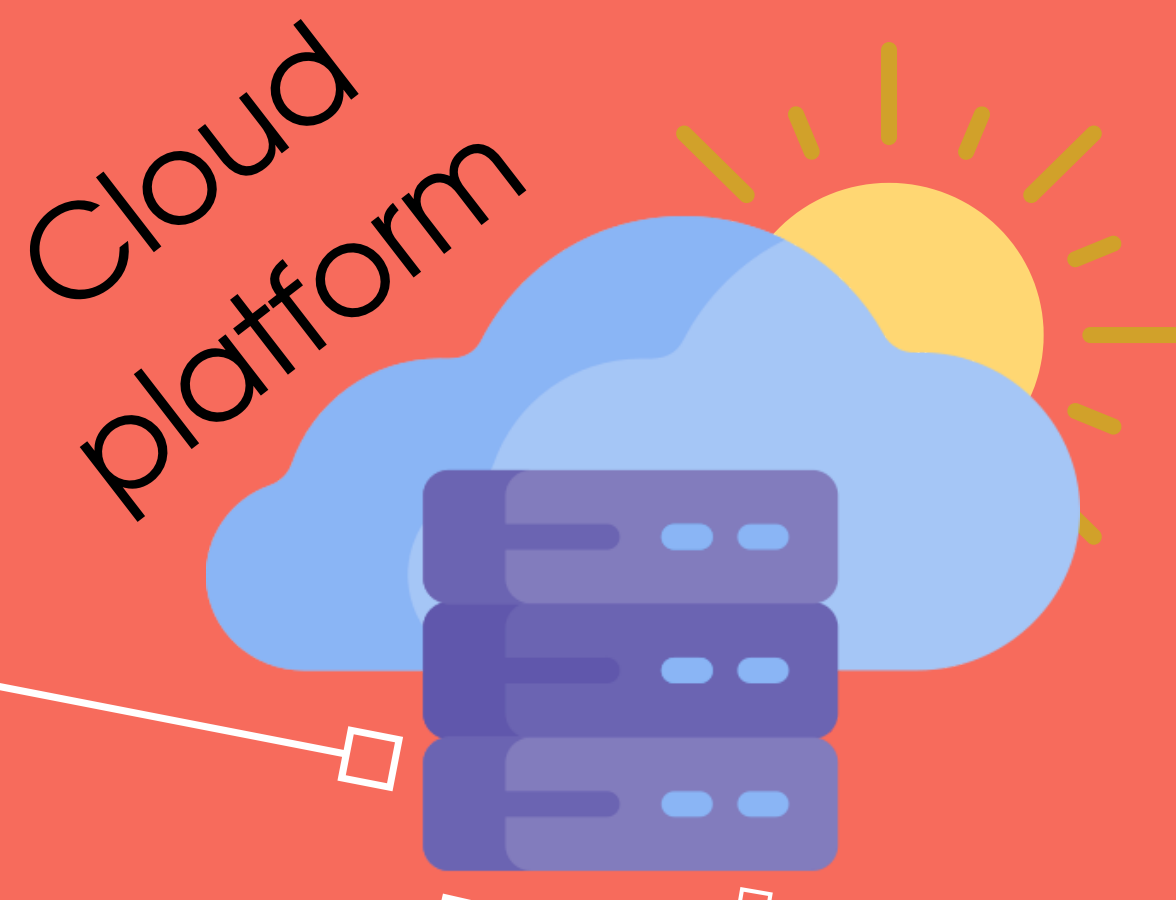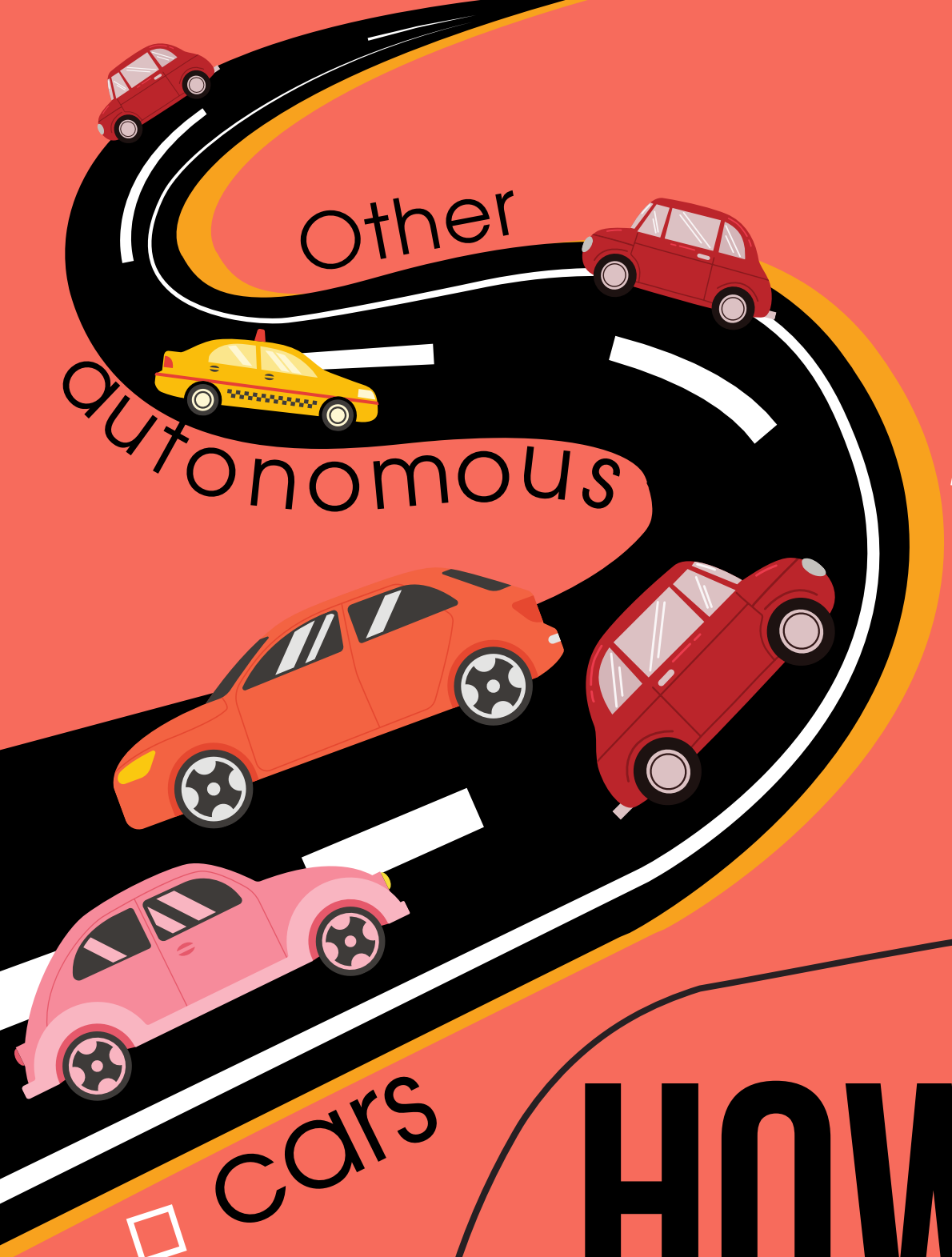
System environment

LiDAR

Cameras

Radar

INTERNAL PROCESSES:

- Self-driving vehicle collects information using cameras, LiDAR and radar.

- Self-driving cars use cloud platforming to unite several aspects.

- The cloud platform can easily and quickly update HD-map.

- HD-map is used by self-driving cars to manoeuvre.

- Your self-driving car communicates with other autonomous cars to avoid dangerous situations.

Possibility for carsharing
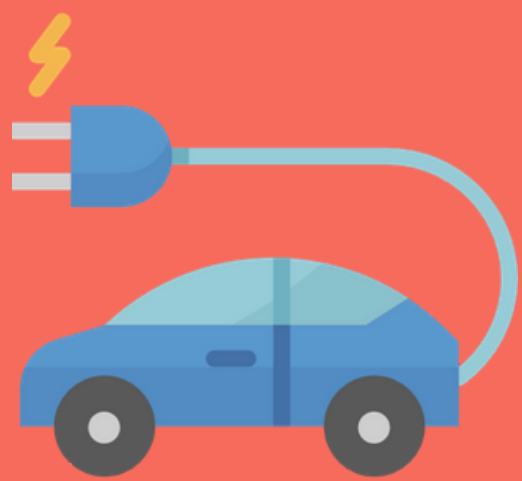
Improved safety on roads

Ethical discussions on decision making
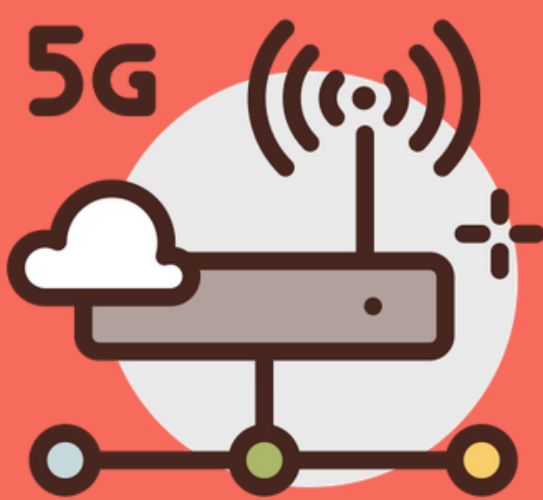
Infrastructure optimization

High probability of electric-powered self-driving cars

UX and UI design are important for autonomous vehicles

CHANGES CAUSED BY THE

TECHNOLOGY

Implementation of 5G

Regulatory changes that allow the use of autonomous cars

Modification of transport patterns