SCENARIO FOR VEHICLE TO INFRASTRUCTURE SUBSYSTEM

- Vehicle movement is initialized.
- Vehicle starts communicating with control unit which is an external system, getting information about the trip (Location, speed, and other important information)
- Upon approaching the road cameras and sensors are activated
- Line detecting sensors are now able to detect the pavement markings and moves into a particular lane.
- Cameras are now on to get the surround view and rear view.
- With Cameras being active it can now also be able to detect the Road Side Unit (RSU).
- The RSU sends signals to inform the car where to negotiate a bend, if there are possible roadblocks ahead, like construction sites and others so the car can change its route, and many more.
- Also, there is the smart Traffic light, that sends information well ahead of time through the cloud to the cars about its current situation, such that Cars

have time between arrival, and stopping especially for a yellow or Red Signal.

➢ Communication between Cars, the Smart Traffic Light and the RSU takes place through the internet.

➢ The car and the Infrastructure communicate with each other from a common server, which provides real time traffic information.