**VANET-** Vehicular Ad-hoc network, enables exchange of information from vehicle –to-vehicle and vehicle to rode side unit(RSU).Information is conveyed to the destination through single or multi hops(router).It uses a routing protocol to forward the packet with maximum lifetime and less delay.

It also describes project for implementing major application of VANET-Smartphone integrated driving safety application along with a traffic signal priority control method also to clear the path for emergency vehicle is modeled. Driving changes location constantly, means a constant demand for information on current location and especially for data surrounding traffic, router. ITS (Intelligent transport system provides wireless communication among the vehicle-to-vehicle and RSU.

VANET mainly provides the wide range of safety application such as safety of passenger, free flow of traffic by broadcasting the information to the vehicular network. System consists of an On Board Unit, an android application in the Smartphone, a server and Road Side Unit. The RSU is designed to place at the road intersection OBU (On Board Unit) is placed inside the vehicle. A server constitute the database and the web application to access smart application developed by android it’s titled as Smart DRIVE. Which is integrated into navigation system that route map, current location by Global Positioning system (GPS). Communication is between vehicles are through Wi-Fi directly.

Adhisoochan includes the purpose of theft identification, congestion notification and information about surrounding vehicles. All these are carried out by using a car with the smart device. Smart device includes GPS (Geographical position system), Acceleration Unit and the Speed Detector. RSU (Road Side Unit) the device that is installed beside the roads, it includes the all information like vehicle travelling, congestion within the precise range. Base station is the database of all these information. Information is received through notification, by communication through vehicle and RSU (Road Side Unit).

The communication may be from vehicle to vehicle, vehicle to RSU (Road Side Unit). Vehicle-to-vehicle is to know about speed of vehicle, acceleration in which vehicle is moving, brake applied position of vehicle. Vehicle to RSU communication is to identify the congestion upcoming and any accident that has happened. All the communication happens within the transmission range.

The above project is carried out through a network NS-2 and NS-3. Network Routing Protocols are used to simulate for the communication to happen.