# Future Transportation Prospect :

Vehicle-to-Vehicle (V2V) communication technology

US officials are close to approving new requirements for enabling vehicles to communicate with each other. Officials hope the new technology will reduce the number of traffic accidents. Automobile manufactures may be required to equip all new cars with what are being called 'vehicle-to-vehicle' communication devices within the next 3 years.

## What is V2V?

Vehicle-to-Vehicle, is a communication technology. It enables vehicles to share information about their speed and movement at a rate of 10 times a second. Cars will be able to identify possible dangers within about 300 meters. The cars will then warn their drivers or even take action to avoid in accident.

The drivers will be able to see, hear and even feel the warning signals through shaking of the seat. Researches expect the new system to reduce the number of car accidents by as much as 80 percent. V2V communications will enable active safety systems that can assist drivers in preventing 76 percent of the crashes on the roadway, thereby reducing fatalities and injuries that occur each year.

By exchanging anonymous, vehicle-based data regarding position, speed, and location, V2V communications enables a vehicle to:

1. sense threats and hazards with a 360 degree awareness of the position of other vehicles and the threat or hazard they present
2. calculate risk
3. issue driver advisories or warnings
4. take pre-emptive actions to avoid and mitigate crashes

Research And Difficult

Auto makers and researchers have been working for years to develop crash-avoidance systems based on vehicle-to-vehicle communications. Such systems eventually could work in collaboration with technology designed to automate various driving tasks, including braking and steering.

The hardware and software for vehicle-to-vehicle communications is nearly ready for mass deployment. But auto makers have other hurdles to overcome, including establishing a big enough network of equipped vehicles for the system to work.

U.S. officials expect the new technology will be required in American vehicles by early 2017. They believe it is the first step toward a better and safer transportation system.

Thank you.