**Problem:**

Road crashes are a leading cause of the deaths in many developing countries. Intersections are recognised as being among the most hazardous locations on the roads. They account to more than 35% of the major road fatalities. So, Intelligent transport management is one among the remedies that could better the roads to be more safe. Intelligent transport system is an advanced application which, without embodying intelligence as such, aims to provide innovative services relating to different modes of transport and traffic management and enable various users to be better informed and make safer and smarter.

**Intelligent transportation system** (ITS) is the application of sensing, analysis, control and communications technologies to ground **transportation** in order to improve safety, mobility and efficiency.

Here, we majorly concentrate to manage intersections where the majority of road accidents occur. So the Automation in managing intersection here turns to be necessary.

**Intersection Management** exploits autonomous vehicles' extraordinary capabilities of control, sensing, and communication to make traffic management at intersections much more efficient than traditional control mechanisms such as traffic signals and stop. A **collision avoidance** is an [automobile safety](https://en.wikipedia.org/wiki/Automobile_safety) system designed to reduce the severity of a collision. It is also known as a **pre-crash system**, **forward collision warning system**, or **collision mitigating system**.

**Approach Taken:**

**Detection:**

So we can Achieve collision avoidance at Intersections only if we could we could predict the collision. So, to achieve this we need to know certain parameters like speed, path taken, location, acceleration. This leads to predicting the path taken by the car, if not may lead to a potential collision

**Implementation:**

We can achieve collision avoidance we need to establish communication between vehicles. There are many ways to communicate between the vehicles like DSRC (direct short range communication), Wave, and V2V (vehicle to vehicle).

**Action:**

After detecting potential collision, we need use certain measure like. 1) Notifying the driver.

2) Make use traffic lights 3) Intelligent breaking systems.