



Intersection Management System

Connected everything



Introduction

Wipro's Intersection Management Solution addresses safety at intersections through monitoring and surveillance, integration with public traffic control systems and reporting of any incidents, with algorithms capable of managing traffic flow towards uncontrolled intersections and connected Vehicle-to- Infrastructure (V2I) communication.

As intersections are highly accident prone, proactive traffic monitoring solutions along with connected infrastructure is the key

Key takeaways



On-the-edge surveillance of intersections with optimum number of video cameras leaves no blind spots. An anomaly is detected, and alarms are raised



Any vehicle-pedestrian, vehicle-bicyclist, vehicle-vehicle proximities resulting in accidents are reported, ensuring emergency response from city transportation authorities



Algorithms capable of computing the speed of incoming vehicles to manage the traffic influx to intersections



Key benefits



Timely and automatically triggered emergency response to incidents, reducing fatalities in accidents

Speed regulation of vehicles approaching an intersection to minimize braking and help reduce fuel consumption

Integration of connected infrastructure V2I communication to this solution offers additional benefits like eliminating chances of accidents altogether, giving free passage to emergency vehicles and stopping at blind corners

Features



2D / 3D map of the intersection with real time depiction of moving objects



Checking behavior of pedestrians, vehicles and bicyclists for any anomalies which may lead to losses or traffic violation as per TAA (Traffic Adjudication Act) in different geographies

The solution including the sensors and compute platform is compliant with the standard regulations on Intelligent Transportation Systems (ITS)





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