Intelligent Intersections Reduce Crashes and Support the Safe Introduction of Autonomous Vehicles

Presented By Pravin Varaiya

Many cities in California have developed Vision Zero plans, seeking to eliminate traffic injuries and deaths through physical modifications to the road infrastructure. However, these modifications can be expensive and have mixed safety results. Crashes in intersections occur because vehicles, pedestrians, and bicyclists are missing critical information. Intelligent intersections report the traffic signal from all approaches, predict when the signal phase will change, relay information on blind spots, and predict red light violations before they occur.

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40% of all crashes, 50% of serious collisions and 20% of fatalities occur in intersections

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