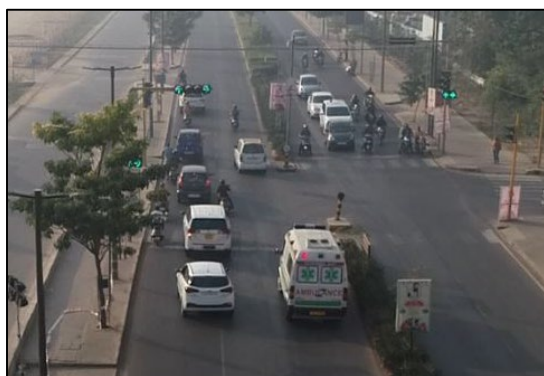


Introduction

ZERO-SUM, LTD., with support from the Ministry of Internal Affairs and Communication, JAPAN and in collaboration with Connected Solutions Company, Panasonic Corporation and with approval from the Ahmedabad Municipal Corporation (AMC) in INDIA, is planning to conduct a demonstration experiment showcasing an emergency vehicle priority system that uses a UHF band based Japanese originated international standard V2X (Vehicle to Everything) communication technology to utilize traffic information display board and traffic signal.

Background

- INDIA is forecasted to become the world's third largest automobile market. Various traffic issues such as traffic congestion and traffic accidents are also predicted to increase further.
- JAPAN is at the forefront in the field of safe driving support systems and technologies. Through localization and using V2X technology, these systems could contribute to solving traffic problems that are relevant to India.
- Using V2X systems, our project primarily aims at shortening the arrival time of emergency vehicles in picking up patients and bring them to hospitals within the golden time which is low fatal rate.



Overview of the experiment

Demonstration Experiment in Ahmedabad

- Emergency Vehicle transmits the approaching emergency vehicle information including its position to the roadside equipment such as VMS board and traffic signal through V2X system with permission of experimental license from the Wireless Planning and Coordination (WPC) Wing of the Ministry of Communications, Department of Telecommunications, INDIA and AMC.
- VMS board will inform the motorists to change their lane and make way for the emergency vehicle. The traffic signal enroute the path of the emergency vehicle will turn green thereby improving the average speed of the emergency vehicle, so emergency vehicle can shorten its arrival time.
- Result of traffic survey of the experiment is that the emergency vehicle reported to the destination early with a reduction in travel time. Integration with both VMS and Signal system results average 15.4% reduction in travel time.

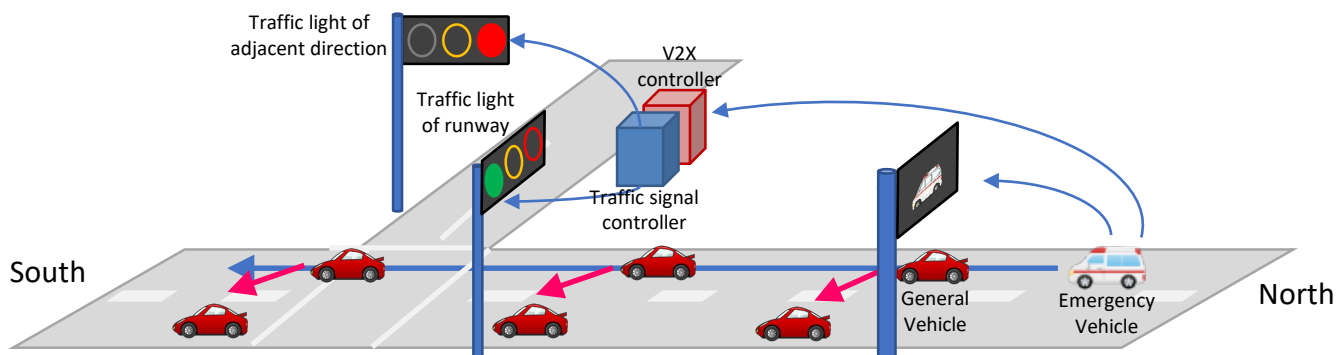


Image of V2X Demonstration Experiment at Riverfront Road in Ahmedabad