

An aerial night view of a busy city intersection. The scene is filled with light trails from cars and trucks, creating a complex pattern of white and orange lines. In the background, there are several large buildings with illuminated signs and windows. A prominent red sign is visible on a building to the right. The overall atmosphere is one of a vibrant, active urban environment.

# Adaptive Traffic Management System

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# ATMS



Total Junctions

125



Project Duration

9 Months Implementation  
and 5 Years O&M Period



Project Cost

Rs 171 Cr.



Project Status

On Going



Date of Completion

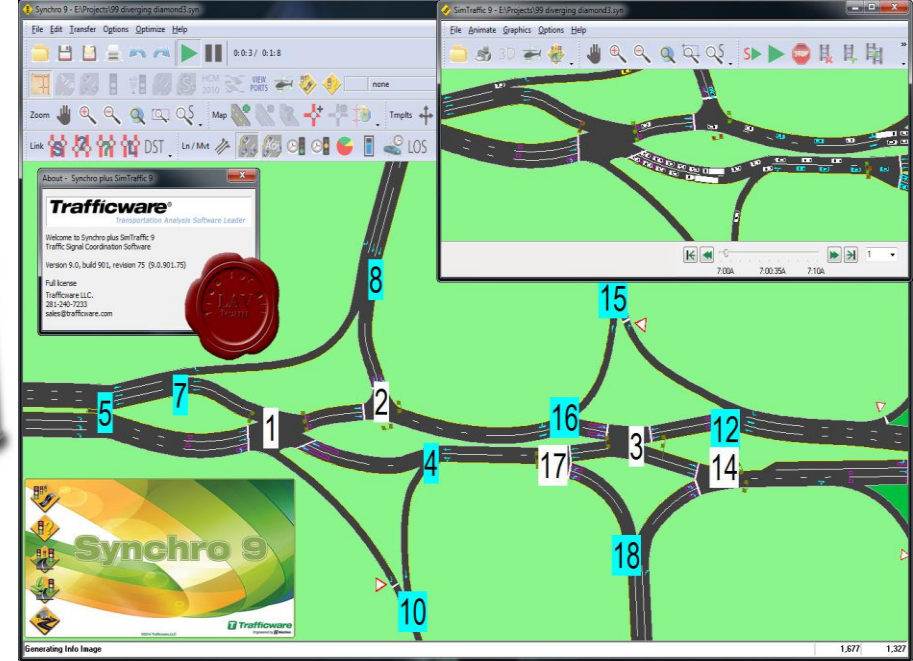
30/06/2023



Vehicle Detector Sensors



Traffic Signal Controller



Communication Network



Traffic Control Center



Traffic Control System

**“The traffic system that adapts to the situation of traffic in real time”**







## Project Overview

The traffic system that adapts to the situation of traffic in real time. Based on feedback system that counts the vehicles (demand) and supply resources (green cycle time for availability of road). Decides best suited model based on

- (1) real time demand at the location
- (2) real time situation in area/ corridor
- (3) historical data based on day, time

*ATMS provides data sources so as to perform traffic modelling for 125 Junctions across city in real time manner*

*Major components of ATMS includes Adaptive traffic controllers at junctions, Traffic lights and traffic sensors, Variable Message sign boards and integration with command control centre.*

					
<b>Vehicle Detectors Camera</b>	<b>Traffic Signal Controller</b>	<b>Communication Network</b>	<b>BlueTOAD Spectra</b>	<b>Traffic Control System Application</b>	<b>Video Message Signboards/Display</b>
Bell Cameras installed on a suitable existing pole close to get the traffic volume. Monitoring and analysing lane depth of 200 meters stretch	Controller installed on-site & takes input from detector and give information to Application/Software installed at ICCC.	Communication network over which sensors share data through controller	BlueTOAD is the most advance traffic-monitoring system directly measuring travel times.	Intelligent application software to operate, Monitor & control signal remotely and get alerts as per configured rules	VMS is used to display information related to traffic condition and public awareness.

**“The traffic system  
enabling intelligent  
informed decision  
making”**

### Current Status:

105 Junctions we finalized in Phase wise manner in 3 PPC meetings held as per below details:

- PPC meeting was held on 3rd March 2022 where 30 Junctions for phase 1 were finalized
- PPC meeting was held on 2nd Aug 2022 where 45 Junctions for Phase 2 were finalized
- PPC meeting was held on 18th Oct 2022 where 30 Junctions for Phase 3 were finalized.

Remaining 20 Junctions out of 125 Junctions shall be planned in next PPC before 31st Jan 2023.

While selecting the junctions in Phase wise manner for implementation of Adaptive Traffic Management System for Phase 1, 2 and 3 (105 Junctions) were finalized by taking into consideration, the views of DCP Traffic, Police department, Pune.

