



## Intelligent Traffic Management System (ITMS)

Technology has been advancing for ages, and there is development in almost every domain. There is, however, one commonly seen pain point that everyone goes through every day, the traffic. In present-day times, the number of vehicles has increased drastically. However, in contrast, the capabilities of roads and transportation ecosystems remain underdeveloped and, as a result, causing traffic congestions and jams, road accidents, increase in pollution levels in new age metro cities and towns.

**An Intelligent Traffic Management System (ITMS)** enables users to be better informed and to make safer, more efficient, coordinated, and smarter use of transport networks. It is defined as an advanced application that aims to provide innovative solutions related to different modes of transportation and traffic management.

**EFKON's innovative and intelligent traffic management systems** make road management significantly less manual, reduce human-interventions, and more accurate. Our significant know-how on all traffic and transport technologies for building smarter, safer, and more efficient solutions has helped us deliver outstanding business value for our clients on service, security, reliability, and accuracy parameters. EFKON's ITMS creates a perfect platform for addressing traffic-related issues faced by traffic management authorities, in terms of predicting an optimum route, reducing average waiting time, traffic congestion, travel cost, and the extent of air pollution. The system aims at using artificial intelligence algorithms for predicting optimum routes based upon traffic mobilization patterns, vehicle categorization, accident occurrences, and levels of precipitation.

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## Our ITMS product portfolio includes

**Automatic Number Plate Recognition (ANPR)** system is based on artificial intelligence, providing a robust and ready-to-integrate system, capturing diverse types of license plates. It's usage ranges from monitoring traffic activities such as red-light adherence and speed enforcement, detection of theft, hot listed/wanted/stolen vehicles, electronic toll collection to various other traffic enforcement applications

**Electronic Enforcement Systems (EES)** suite incorporates traffic surveillance and enforcement products that provide valuable insights to stakeholders, contribute to improving safety and security on roads, thereby saving lives and property and enhancing ease of commute. Its key components are:

**Red Light Violation Detection (RLVD)** system is a fully automated electronic monitoring system identifying vehicles jumping the red light, stopping after the stop line, and over the zebra-crossing. This system is easy to integrate with e-Challan solutions.

**Speed Violation Detection (SVD)** system is a robust and ready-to-integrate system for identifying vehicles not adhering to the permissible speed limits on the roads.

Easy integration with e-challan systems enables automated processing of violations without the need for manual intervention. Our EES can also detect commuters who are riding two-wheelers without helmets. Violations like triple-and quadruple riding are also offenses which can be identified by our systems and make the violator liable for penalty and fine.

**Adaptive Traffic Control System (ATCS)** enables traffic signals to work in adaptive (fully synchronized), vehicle actuated (local optimization), and fixed timing modes to maximize vehicular throughput and reduce congestion.

Other systems such as Emergency Call Box (ECB) and Public Address Systems (PAS), City ERP, Video Management Systems (VMS), etc. complement the core solutions outlined above to provide a comprehensive and robust ITMS solution

**Video Incident Detection System (VIDS)** helps to ensure safety on highways and generate e-Challans for violators on roads. Some of the violation the system can detect includes no-helmet riding, triple riding, reverse movement, blocking left free lane, stopped vehicle, etc.

### Advantage of using ITMS



Route Optimization



Traffic Monitoring



Accident Detection



Vehicle Tracking



Capacity Management



Reduction in Stop and Delays at Intersections



Speed Detection and Control



Travel Time Improvement



Incident Management

### Why EFKON?

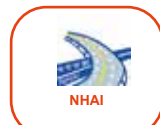
18 years of domain expertise and seasoned cross-functional teams

Strong presence in the growth markets (highways and smart cities)

End-to-end traffic management system products

Track record of award-winning successful project executions

### Our key clients include



#### EFKON – A Global Leader in Intelligent Traffic Management Systems

EFKON India is a pioneer in bringing innovative products for Intelligent Traffic Management system in India since 2001. It is a wholly-owned subsidiary of STRABAG, a leading infrastructure company with revenue of € 15.67 Billion (2019). EFKON India help clients with end-to-end solutions for:

- Advanced Traffic Management System for Smart Highways and Smart Cities
- Intelligent Revenue Collection and Assurance Systems for Smart Highways and Smart Cities
- Intelligent Transport Management Systems for Logistics and Fleet Operations

For more information, please visit [www.efkonindia.com](http://www.efkonindia.com).



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