



Smart Cities

Cities are turning smart, and smart transportation is an essential element in realizing their vision. It is one of the main ways Smart Cities can enhance the daily lives of citizens and improve sustainability. However, lack of quality and safe transportation, road safety concerns, overcrowded road network, poor traffic management, parking issues, thefts, and terrible road conditions remains the critical issues in most of the cities. To overcome these challenges, Smart Cities are adopting technologies that help citizens with hassle-free road and highway experiences.

At **EFKON India**, we believe we can help the government to manifest their Smart City dreams and ambitions by designing and deploying wide-ranging intelligent systems for transport management and law enforcement. Our Smart City solutions help with better traffic management, reduced polluting emissions and consumption of vehicular fuel and oil, smart electronic toll solutions, automated traffic signals, and better electronic enforcement systems. Thereby improving the way people use roads and enhance their quality of lives – in the city of today and tomorrow. We use technology to manage and improve city infrastructure, increase safety, accessibility of citizen services, and improved administration with better governance.

Our Smart Cities product portfolio includes

Intelligent Traffic Management System (ITMS) aims at using artificial intelligence algorithms for predicting optimum routes based upon traffic mobilization patterns, vehicle categorization, accident occurrences, and levels of precipitation. It 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.

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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. Its 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 the ease of commute. Its key components are:

Red Light Violation Detection (RLVD) system is a fully automated electronic monitoring system identifying vehicles jumping a 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.

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. It can also detect weather conditions like smoke, fire, fog, etc.

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.

Additionally, our Smart Cities also includes solutions for Emergency Call Box, Variable Message Displays (VMD), Surveillance Camera, Smart Parking, Environmental Sensors, Traffic Command, and Control Center, Video Message Systems, and Environmental Systems.

Advantage of using EFKON's Smart Cities portfolio



Reduced traffic congestion



Accident detection and incident management



Speed detection and control



24/7 real-time intelligent monitoring and enforcement



Better accessibility through route optimization



Reduced energy consumption



Make informed decisions based on real-time data available

Why EFKON?

19 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

Aligarh Smart City Project – Case Study

Implementation of Integrated Command and Control Center (ICCC) and e-Governance based Smart City solutions at Aligarh, Uttar Pradesh, India

EFKON India was selected to be the Master System Integrator (MSI) for developing, implementing, and regulating several projects in Aligarh city such as Smart Governance (portal and mobile application), Utility Management Systems, Intelligent Transport Management Systems, Surveillance System, Data Centers, and the Smart Network. The project is being executed to transform the city of Aligarh into a smart city by:

- Establishing a unified Command and Control Centre to view and assess various city parameters
- Enabling city administrators to make informed decisions based on real-time data available

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

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