



Highway Traffic Management System (HTMS)

The background of the slide is a photograph of a multi-lane highway with traffic, viewed from an elevated perspective. The image is framed by large, overlapping circular and curved shapes in shades of orange and dark grey. A large black circle with an orange border is centered over the highway, containing the title text.

The number of vehicles on highways is ever increasing and managing them has become a significant concern. It is of the prime importance of road authorities to provide real-time and precise information to road users about the road and traffic conditions, toll management, incidents, and weather updates. This will ensure a smooth, safe, and efficient traffic movement on highways.


A **Highway Traffic Management System (HTMS)** helps to intelligently integrate multiple technologies to improve highway tolling needs, safe and secure flow of vehicle traffic, and continuous updates on untoward situations and weather conditions.

EFKON's advanced HTMS solutions provide an effective and secure road management system for collecting and delivering data concerning road status, toll management, accidents, congestions as well as environmental information like weather updates, road temperature, or wind speed. We offer products that are based on our own-developed technologies and solutions portfolio for electronic enforcement, toll collection, and traffic telematics.

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Our HTMS product portfolio includes

Toll Management Systems (TMS) helps in all electronic toll collection in free-flow traffic or automated payments at conventional toll plazas, high-occupancy vehicles (HOV) lanes, toll bridges, tunnels, etc. We design, implement and maintain an optimal solution to meet our clients' tolling needs with support of Smart cards and FASTag.

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 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 highways, thereby saving lives and property and enhancing the ease of commute. Its key components are:

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 highways.

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, etc.

Automated Vehicle Classifier (AVC) a profiler-based system that ensures accurate vehicle detection and classification offering outstanding performance. Our solution helps in accurately identifying and classifying vehicles to collect the appropriate toll amount.

Additionally, our HTMS also includes solutions for Emergency Call Box, integration with Command and Control Centre, Video Message Systems, and Environmental Systems.

Advantage of using EFKON's HTMS



Efficient toll management



Accurate vehicle detection and classification



Improved highway road safety



Accident detection and incident management



Speed detection and control



Improved flow of vehicle traffic

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

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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