

Accolades Galore IT Kerala
It's E World Jury Choice Award now,
for Kerala State IT Mission

Intelligent Enforcement Automation System for Kerala, a project of the Kerala State IT Mission developed for the Motor Vehicles Department for enhancing the road safety and for detecting and booking the traffic rule violators automatically, has been adjudged as the best project by E-World Jury Choice Awards for 'Best Initiative for Use of ICT in Public Safety, Security and Disaster Management' category.

“Intelligent” Enforcement Automation System for Kerala aims at enhancing road safety by ensuring that the rules and regulations mentioned in the Motor Vehicles Act, 1988 are strictly being adhered to by the drivers and vehicles on road.

If a citizen is found offending any traffic rule like driving without license/ permit or breaking traffic rules, applicable penalty is enforced on the driver of the vehicle. The Enforcement Automation project enables the enforcement of road rules by means of automatic capture of traffic offences like red light violation, over speeding and wrong direction driving in addition to the 24X7 surveillance using “virtual loop” - a Video Analytics solution with Automatic Number Plate Recognition and utilizing mobile-wireless technologies, Geographical Information Systems (GIS) and Global Positioning System (GPS) technologies.

The solution consists of three core components, viz an outdoor solution which uses IP cameras; offence detection by means of virtual non intrusive loops configured for each location utilizing a video analytics application with Automatic Number Plate recognition and a GIS and GPS based PDA solution for broadcasting the location of the field officers. A PDA based “e-challan” mobile application which enables the enforcement officers to collect fines and record them digitally on the move – on a real time basis.

The video captured at the junction by the IP Cameras are streamed to the Control room setup and attached to three regional offices to monitor the junctions within its jurisdictional perimeter.

The video analytics system automatically detects traffic violations and the number plate of the offending vehicle; the registration details of the violating vehicles are extracted automatically from the “Smart-Move” database of the Kerala State Transport Department. Incident log along with a Picture and a video clip of the violation is automatically recorded on a server without any human intervention. The project also equips the field officers with intelligent GPS enabled PDA devices which can book electronic challans and also equips them to verify the authenticity of records produced on field by comparing the details

available in the “Smart Move” Database maintained at the Motor Vehicles Department, Government of Kerala .

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MVD control room is notified of all the offences booked automatically by the system are saved as a record to the Smart Move database. The offence history will be shared with Traffic Police as well. The Motor Vehicles Department has booked several offences, by now. This facility could inculcate a new driving culture amongst the drivers, in addition to fetching more revenue to the Government.

Kerala targets encouraging continued use of technology for solving the problems of governance, and for making governments more responsive, effective and citizen oriented. This will help identify habitual offenders and may help in implementing a compounding based fine imposing system, and even cancel the license in due course.

The e World Awards 2012 were presented during the e World Forum 2012 held at New Delhi during 15-16 June 2012. Mr. Sabarish. K., Mission Coordinator received the award, on behalf of the Kerala IT Mission.

Director

About e world Awards 2012

The Award recognizes excellence in adoption of technology in the processes of governance and also showcasing noteworthy innovations towards this end.

Launched by Mr. Kapil Sibal, Union Minister of Human Resource Development, Communications and IT, Government of India in 2011, the e-World Forum is a premier global conference organized annually.