

## Application of Safe Systems Approach using Crash Data Analysis

### Case Study: Himachal Pradesh, India

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#### ABOUT THE TALK :

The “Safe System” approach is a holistic mechanism that recognizes traffic crashes are the result of a complex interaction between the way people behave on road, the types of vehicles in use, travel speeds and the road environment. To translate the policy intentions of the Safe System approach into improved outcomes, monitorable and evidence-led road safety interventions must be supported by effective tools.

An efficient crash data management (recording, analysis, monitoring) system is a fundamental requirement for any country attempting to tackle crashes on a rational basis. HP-RADMS (iMAAP software) is a web-based road accident data management system (RADMS) implemented in 2016 by the state of Himachal Pradesh (HP), India under a World Bank funded project.

This study analyzes extensive HP-RADMS data to identify various crash attributes, predominant collision types and high-risk locations in Himachal Pradesh. The study suggests engineering, enforcement, and emergency response countermeasures to rectify deficiencies in the system. It attempts to formulate a mechanism that efficiently utilizes limited government resources and to enable an effective crash prevention and management strategy.

#### ABOUT THE SPEAKER :

Tony Mathew, from Alappuzha, Kerala, is a civil engineer and a postgraduate in road management and engineering from the University of Birmingham, UK. Tony is a practicing road safety and asset management professional and has more than 20+ years international experience in implementing road safety and asset management projects in various countries including UK, Ireland, Tanzania, Ethiopia, Vietnam, and India.

Currently, Tony is heading the operations and delivery arm of Transport Research Laboratory (TRL) India business and is responsible for delivery of projects in Asia and Africa region. Also, Tony is engaged with various public sector clients in developing solutions for improved road transport management, which includes digital and institutional solutions for better improved road safety and asset management. Earlier, Tony was involved as an advisor to UN-ESCAP (sole road safety expert from India) to develop road safety infrastructure guidelines to be adopted in Asian Highways by all member countries. Tony is a member of IRC H7 Committee and is also an established trainer and noted speaker on road safety issues and has presented technical papers in road safety forums in Australia, Africa, UK, Thailand & India.