"Fast tracking Road Safety Through 5 Es"

Ashish Chutani Maruti Suzuki India

"We are not safe on Indian roads and we need to do something about it"





High road accidents, high fatalities

NEARLY A FLAT LINE FOR OVER A DECADE

5E: Pillars of Road Safety



...need comprehensive solution with EQUAL participation of all

Vehicle Engineering

Crash Test	Test Pattern	Regulation	
Crash lest		India	Europe
Full Frontal Impact		AIS: 096	ECE R 12
Offset Frontal Impact		AIS:98	ECE R 94
Side Impact	50km/h	AIS:99	ECE R 95
Pedestrian Protection		AIS:100	GTR 9

India's Crash Safety Norms at Par with Europe

Vehicle Engineering





Critical Statistics on Fatalities



In metropolitan cities, the Vulnerable Road Users (VRUs) accounts for as high as 89%

- In ~87% of fatalities in 4wheelers, Seat-Belts were not worn.
- In **70%** of fatalities in 2-wheelers, Helmets were not worn.
- ~68% of the fatalities are due to over-speeding.

Enforcement Rating for Road Safety Laws (out of 10)



ENFORCEMENT: Not just Government's Responsibility

It is a shared responsibility of we all



Enforcement drunk driving

Source: Global Status Report on Road Safety, 2018



Enforcement of use of seat belts

THE ECONOMIC TIMES

30% driving licences in India are fake: Nitin Gadkari

Nitin Gadkari minced no words in criticising the current system of licensing and penalty system for traffic violations as he introduced the bill.



Technology Based Enforcement: An Example



Delhi's Fully Automated Driving Test Centre

Technology Based Enforcement

DRIVING TEST RESULTS

Pass Percentage	Before Automation	86%
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Technology Based Enforcement: An Example

Camera-Radar Systems to Capture Traffic Violations At key Junctions with High Vehicular Density



10 lacs Challans per year. No human intervention.

DELHI



We are not SAFE on Indian roads and we all together can make a difference

Research Demonstration of Vehicle-to-Everything (V2X) Communication Technology

