Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable Materials and Policy Guidelines *February 29th - March 1st, 2024, Manekshaw Centre, New Delhi*

eDAR/iRAD: Towards Better Accident Reporting and Management Joydeep Shome, DDG, NIC



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Road Safety: Numbers at a Glance





Major Reasons for Road Accidents and its Contributing Factors

Major Reasons of Road Accident

- Over speeding
- Dangerous/ drunken/ careless driving
- Wrong-side driving
- Use of mobile phones
- Non-compliance of traffic rules

01

Major Contributing Factors

- Inadequate enforcement
- Bad road conditions/ Engineering defects
- Poor signalling/ signages
- Bad lighting/ weather condition
- Untrained/ignorant drivers
- Unsafe vehicles
- Non-use of safety devices

02

Reasons for High / Fatality

- Inadequate Trauma Care
 Facilities
- Limited ambulance service
- Delayed reporting
- Missing the golden hour
- Medico-legal issues

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03

iRAD/ eDAR: Basic Concept

9 Work-flow based data entry and AD processing by users Project funded by iRAD (Integrated Road Accident Database MoRTH. Solution GPS Location, Timestamp from Created a Centralized provided by NIC/NICSI accident site Database of Accidents and IITM. Monitored and related details Captures images, video as by Hon'ble Supreme evidence Court Fetches data from Vahan, Sarathi for vehicle/ driver info **Data Capture Mode Stakeholders** Links with CCTNS and helps in Vahan generating FIR, investigations MoRTH, Police, Sarath Available as Mobile Helps detailed analysis of data to app (both IOS and Transport, Health, identify root cause Highways, Insurance, Android) and Web application modes MACT, NALSA etc. eDAR further integrates Insurance Cos, CLSAs, MACT Initiated in 2021 in 6 pilot states **1** Million+ Accidents details captured iRAD – Implemented in all states iRAD – Implemented in all states 60% with fatalities or grievous injuries eDAR – Under Implementation eDAR – Under Implementation 40-50 thousand entries per Month Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable International Road Federation - India Chapter

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iRAD/eDAR: Objectives

- Collect detailed accident data from the spot
- Gather digital evidences for legal and analytical needs
- Facilitate detailed analysis for identifying root cause
- Help identify black spots, road engineering defects etc.
- Facilitate timely help to accident victims
- Bring all stakeholders in a single platform
- Enable real-time sharing of data among stakeholders
- Enrich data with linkages from Vahan, Sarathi, CCTNS, NHA
- Facilitate investigation, FIR generation, Legal proceedings
- Help time-bound claim settlement process for accident victims
- Link Police, claimants, Insurance Cos., Courts, SLSA etc

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iRAD/ eDAR: Achievements

- iRAD Implemented in all 36 States/ UTs across the country
- Started in 2021 in select districts in 6 states, extended in phases
- More than 1 Million accident cases recorded in last 3 years
- Detailed data collected through Police, Transport, Road and Health
- Developed and implemented by NIC/ NICSI, Data Analysis by IIT Madras
- Data-based identification of accident-prone black spots/ black stretches
- Grid Analysis facility to analyse focussed analysis of accidents and trends
- Integrated with CCTNS in many states, facilitates investigation, FIR, Reporting
- eDAR developed to facilitate management of compensation to accident victims
- Hon'ble Supreme Court Division Bench viewed and appreciated eDAR system
- Implementation of integrated eDAR solution under way in states



Thank You



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