

Webinar Series

India Chapter

Enforcement Innovations for Road Safety

Modulation

Dr. Rohit Baluja

Institute of Road Traffic Education

Rohitbaluja@irte.com www.irte.com



Topic-1: Adoption of Smart Technologies for Successful Enforcement

Topic-2: Highway Police Patrol System for Safety on NH & SH Network

Topic-3: Enforcement Laws & Policies aiming for Road Safety

Topic-4: Traffic Enforcement through Public-Private-Partnership (PPP)





Interceptors are an Innovation & Registered Trade Mark of IRTE

INTERCEPTOR (



Interceptor is a visioned creation of Dr. Rohit Baluja . Interceptors are now operating in 25 States and UT's across India

It is not merely a Hardware, but a comprehensive methodology integrating traffic engineering, traffic enforcement ,data management through visual and software systems on a mobile platform





IRTE's Interceptor 1 took part in the National Republic Day Parade as a constituent of the Delhi Police Contingent in 1996. Opened an ear of enforcement technology for India

Participation of IRTE's 3 Interceptors in the India's National Republic Day Parade 2001























Traffic Enforcement Laboratory

• Traffic Enforcement laboratory at IRTE's College of Traffic Management has over 50,000 Hours of footage of traffic movement, violations, and issues regarding road environment



Registered Vehicles in India

RICE



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Smart Cities Mission

"The main objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions".



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Status of BRTS projects in India

S. No.	СІТҮ	STATUS	S. No.	СІТҮ	STATUS	
1	Pune & Pimpri- Chinchwad	Operational	12	Amritsar	Operational	
2	Ahmedabad	Operational	13	Bhopal	Operational	
3	Delhi	Scrapped	14	Hubli-Dharwad	Operational	
4	Jaipur	Operational	15	Kolkata	Under Construction	
5	Vijaywada	Operational	16	Mumbai	Under Construction	Bandha
6	Rajkot	Operational	17	Jodhpur	Under Construction	
7	Surat	Operational	18	Chennai	Planning Phase	
8	Indore	Operational	19	Coimbatore	Planning Phase	
9	Bhubaneshwar	Operational	20	Hyderabad	Planning Phase	
10	Raipur & Naya Raipur	Operational	21	Madurai	Planning Phase	
11	Vishakhapatnam	Operational	22	Tiruchirapalli	Planning Phase	



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LEGE OF TRAFFIC MANAGEMENT



WHERE WE WENT WRONG

Crores went down the BRT drain, but the result could have been different had authorities taken cue from success stories elsewhere. Here's how it could have been done

DEDICATED RIGHT OF WAY

IDEAL Dedicated BRT lanes ensure buses bypass traffic jam; can be enforced through use of delineators, coloured pavement or camera enforcement

REALITY BRT had a dedicated bus lane, but is now open to all vehicles

BUS BAY ALIGNMENT

IDEAL Median-aligned bus bays as they minimise risk of delays caused by turning movements and parked vehicles

REALITY Only thing that Delhi BRT got right, as bus bay is in the centre

OFF-BOARD FARE COLLECTION

IDEAL Off-board fare collection reduces boarding time and prevents revenue leakage

REALITY Delhi is yet to automate its fare collection in the bus system

INTERSECTION TREATMENT

IDEAL Forbidding turns across bus lanes and simplifying signal cycles reduce delays. Give traffic signal priority to BRT vehicle to increase speed

REALITY Traffic signals were longer for certain directions, but had no impact. Jams went on till 2km beyond the intersection

PLATFORM-LEVEL BOARDING

IDEAL| Bus floor and station platform should be at same height

REALITY Levels are same, but passengers had no connection to sidewalks, running across traffic to get to the bus stop

LESSONS LEARNT

Before embarking upon the ambitious plan, government could have considered the following points:

Choosing the right corridor: Dependent on demand for a bus service at the location

Start early: Put BRT in place when you plan a new road

If road is narrow: Ban use of cars

 Have a single lane, but with double lane at bus stops, for passing over

....

A large network

of bus-stops

brings flexibility

to system

designated on-street parking

 Last-mile connectivity makes BRT more robust

 Provide continuous, unhindered walking spaces

- Include expanded footpaths, safe pedestrian
 - crossings, protected cycle tracks, properly scaled carriageways, conveniently placed bus stops,



COLLEGE OF TRAFFIC MANAGEMENT

СТМ





Road Traffic Violations by Motorized TrafficOn One Single Day in NCT Delhi:2007







Source: IRTE Study on Road Traffic Violations 2007









75% (1098)

are Not Meeting

IRC Codes of

Practice



सल्यमेव जयते

SUPREME COURT COMMITTEE ON ROAD SAFETY

Chairman : Justice K.S. RADHARISHNAN Members : S. Sundar Dr. Nishi Mittal Secretary : S.D. Banga Tel. No. : +91-11-23060597 Email : roadsafetysc@gmail.com

No.10/2019/CoRS

Dated : 19th June, 2019

To

The Additional Chief Secretary (Transport), Government of Chhattisgarh Raipur Email : <u>ps.home.cg@gov.in</u>

Bub: Enforcement of traffic laws in the State

Sir,

The Committee has been informed by the Institute of Road Traffic Education (IRTE) that over the last years, they have conducted workshops in road safety for traffic police in the cities of Raipur and Bhilai. The deliberations included the standard installation of traffic control devices, type of road traffic violations and identification of black-spots.

2. In order to conduct these workshops, a primary study in the above mentioned

Enforcement of traffic laws & regulations

- AIM :
- Moderate road user behaviour by: Preventive, Persuasive and Punitive measures
- In order to:
- Effect the safe, disciplined and efficient movement of traffic

•

- Behaviour modification by making them fearful of consequences
- Education & Awareness,

Road Traffic Violation: Digression form desired behaviour











Road Traffic Violations











Sench REMAN GO

Palaor alas






Construction Zone Management





For successful implementation of technology: Necessary network infrastructure is in place.











On a 4 Lane Carriageway



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City	Average Marks in Pre Test (%age)	Average Marks in Post Test (%age)	
Total	26	74	



Are these Traffic Personnel Aware of Driving Regulations, Basics of Traffic Control Devices ?







What is the knowledge of **Road Engineers responsible** for installation of Traffic Control Devices ? Is Traffic Engineering a Science Practiced by the **Road Authorities in** India?





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ANPR stretches into the last century as it was invented in 1976 in the UK at what was then know as the Police Scientific Development Branch (PSDB)

DL 3C BP 2331







Technology is the answer for tomorrow:

Not to Replace the Real intelligence

but as an

Enabler and Catalyst



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Enforcement of Traffic Violations

- Traffic Control Devices & Road Geometrics should meet the needs of Motor Vehicles Driving Regulations
- (Important to Build Capacity of Roadway Engineers in Traffic Engineering)
- Traffic Police must be trained and examined to ensure they have adequate knowledge of Driving Regulations, TCD's and Important Provisions of the Motor Vehicles Act & Rules
- Motor Licensing Officers, RTO's need training to ensure that each license awarded is deserving based upon the knowledge of the applicant