

UNDERSTANDING THE SAFE
MOBILITY CONUNDRUM :
ROAD SAFETY, AIR POLLUTION,
TRANSPORT PLANNING AND DESIGN

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Safety on Roads

- 1.3 Million people killed every year globally.
- Third most common reason for premature deaths.
- 80% death occur in Low and Middle Income countries.
- 1.5 Lakh deaths are in India. 1/10th of the Global road crash death.

Decade Road Safety Action Plan 2011-2020

- Reduction of death and crashes by 50% by 2020
- Road safety authority
- Enforcement ,education and Engineering.
- KRSA 2008.

KRSA Members

- (a) The Minister for Transport-Chairman of the Authority
- (b) The Minister for Works-Vice Chairman of the Authority
- (c) The Chief Secretary
- (d) The Principal Secretary, Transport Department
- (e) The Law Secretary
- (f) The Principal Secretary, Home Department
- (g) The Principal Secretary, Finance Department
- (h) The Principal Secretary, Public Works Department
- (i) The Principal Secretary, H&FWD
- (j) The Principal Secretary, GED
- (k) The Principal Secretary, LSGD
- (l) The Road Safety Commissioner – Chief Executive Officer of the Authority
- (m) The Director General of Police
- (n) The Director, Health Service Department
- (o) The Inspector General of Police (Traffic)
- (p) The Chief Engineer (Roads & Bridges)
- (q) The Chief Engineer (NH)
- (r) The Director, NATPAC
- (s) The Secretary, State Transport Authority
- (t) 3 persons who are experts in the field of Road Safety nominated by the Government.

WHO Report

- 92 % of the World population lives in areas where air quality levels exceed WHO levels.
- 6.2 Million people die every year.
- Nearly 90% of air-pollution-related deaths occur in low- and middle-income countries.
- One of the major sources of air pollution is inefficient modes of transport.



A more inclusive idea of road safety

Air Pollution

- Smog
- Fatigue
- Impaired vision
- Induces wrong driving choices
- Hyper Tension and Diabetes (Cardiometabolic diseases, Persistent organic pollutant)

Motor Vehicles Department

- Road safety primary role
- Enforcement of Pollution standards in in-use Vehicles.
- Central Motor Vehicles Act, S 115,116
- Penal Provisions S 190(2) of MV Act.
- Grants license to PUC Centres.

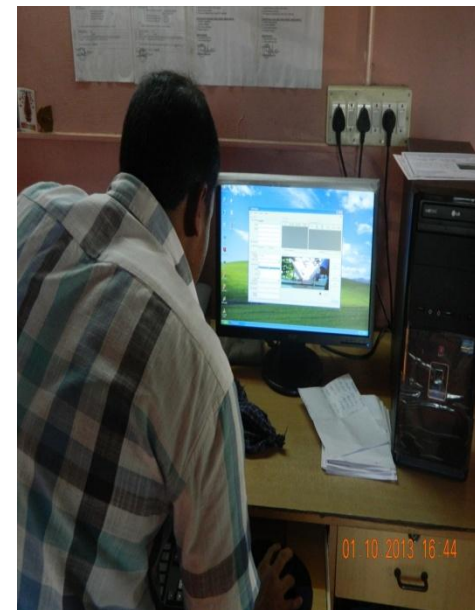
Smoke Meters

4+6 Method.

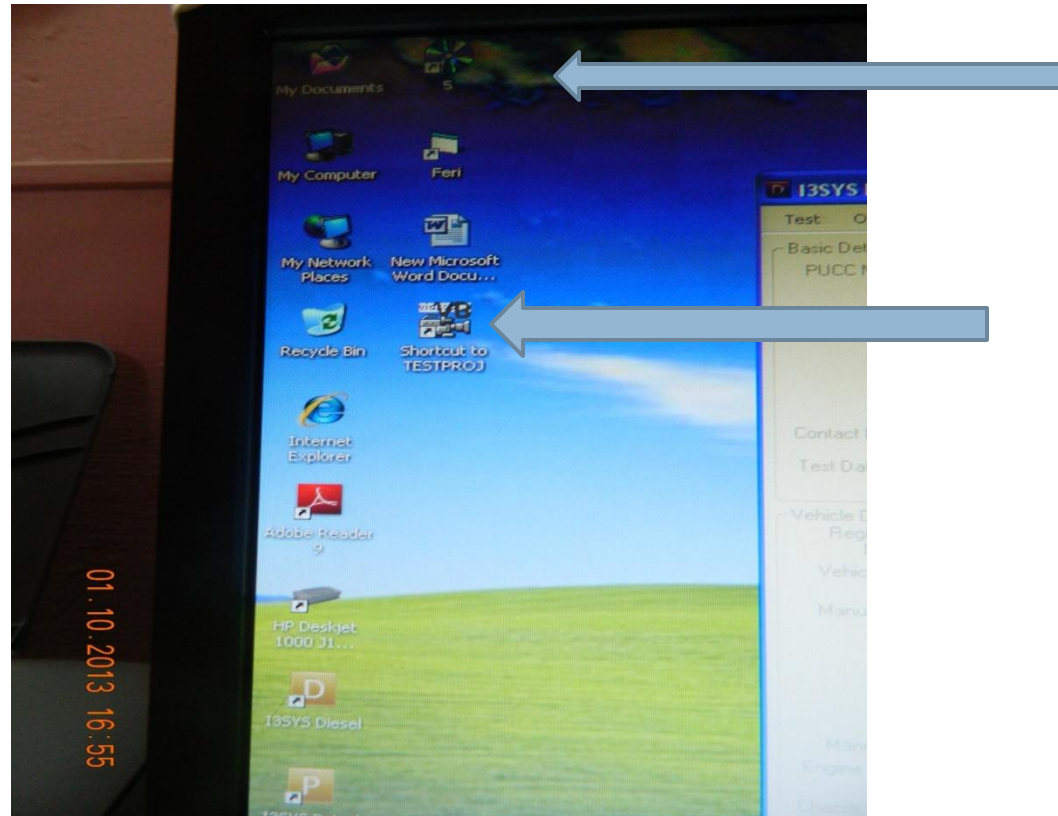
More rigorous

Malpractices abound.





Use of Bogus software




3+3 Method (2016 Jan)



Easier

Less Rigorous

Transition stage



Centralised, Online Pollution Certification system

Public Transport Decline

Stage Carriages

- 2005- 32000
- 2013- 13000

80% of vehicle population comprises of two wheelers

2015-16 – 6 lakh M/Cy registered in Kerala

Taxation



- Impaired logic
- Need to encourage public transport



Green Tribunal ruling

BS IV Implementation

- Wef 01/04/2016
- Pending court cases
- Availability of Urea

Developing Inland Water Ways

National water way 3

168 Km – Kollam to Kottapuram

Now extended to Kozhikode

How People Move



- Fields of Vision
- Simulation and Gaming
- Mobility data