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. 1/10\textsuperscript{th} 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.
(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.
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