

Our Footprints in Smart Infra

ASTRIKOS CONSULTING

ICT

SMART CITY

SMART INDUSTRY



ISO/IEC 21823-1:2019

ISO/IEC 20000-1:2011 ISO/IEC 27001-1:2013 ISO 9001:2015

We specialise in the areas of Technology (ICT/IoT) Consulting, Implementation of Technological applicability to Public/Enterprise Policy. Areas of focus are ICT, Smart Healthcare Next Generation Data Centres, Smart Cities, Smart Infrastructure, Smart Industries and Smart Analytics.

Astrikos Consulting provide advisory and implementation efforts to industries on migration/ implementation of Industrial Automation, Industry 5.0 and IIoT by means of cognitive intelligence and data science product lines.

Smart Cities

Namchi Smart City (Sikkim)

Belagavi Smart City

Aligarh Smart City

PCMC Smart City – Pune

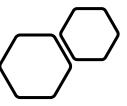
Gangtok Smart City

Smart Industrial Parks

G&B (WIP)

Britannia Industries (WIP)





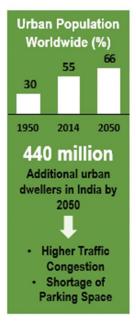


- Overview of Mobility Ecosystem
- Urban Mobility Challenges
- Emphasis on Safety in Urban Mobility
- Key Drivers Need Analysis
- Elucidations and Insights
- Tackling Challenges with Technology
- Emergence of Indian Urban Management for Road Safety
- Summary
- Questions ???



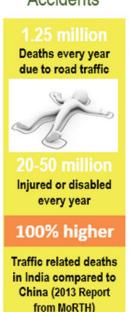


Rising Urbanization





Increase in Accidents





Environmental Concerns





Changing Customer

78%
Millennials prefer spending on experiences over buying goods

30%

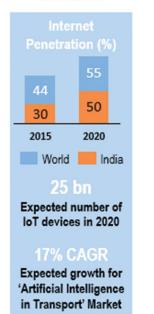
Do not intend to buy a car in near future

Increase in global car sharing members in 2012-14

28 hrs/ week
Avg. time spent by
Indians on mobile



Technological Evolution



Mobility Ecosystem and Evolution

- Urbanization Challenge
- Vehicular Density –
 More Accidents
- Pollutants and Air Quality
- Change in People's Behaviours
- Technological Interventions

Source: https://autotechreview.com/technology/new-trends-in-mobility-and-implications-for-oems

A developed country is not a place where the poor have cars, it's where the rich ride public transportation.

Enrique Peñalosa Mayor of Bogota, 1998–2001

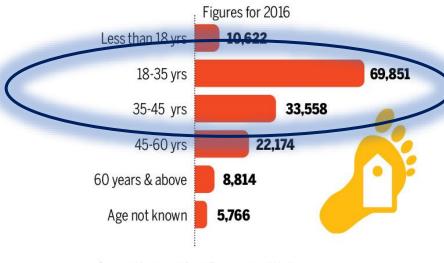
- Maintaining road infrastructure
- Maintaining seamless flow of traffic
- Encouraging citizens to use public transportation services
- Rapid Mobilization of Emergency Response Facilities
- Sustainable and Environment
 Friendliness



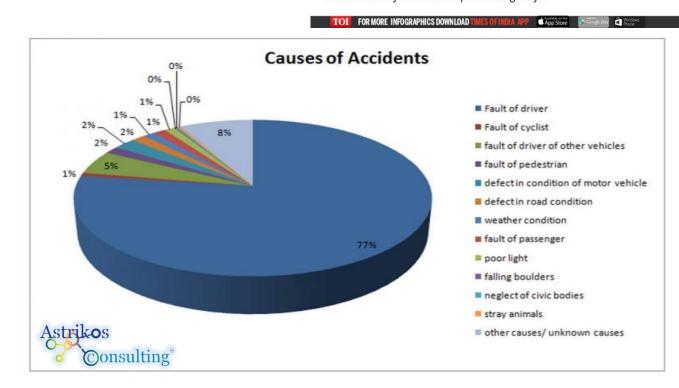
Emphasis on Safety in Urban Mobility

- It is observed that the younger age group is prone to road accidents
- Two-wheelers and Three-wheelers are more prone to accidents
- Top Root causes for accidents are observed as :
 - Negligence of Driver
 - Impatience on the road
 - Collateral damages

ROAD DEATHS BY AGE-GROUP

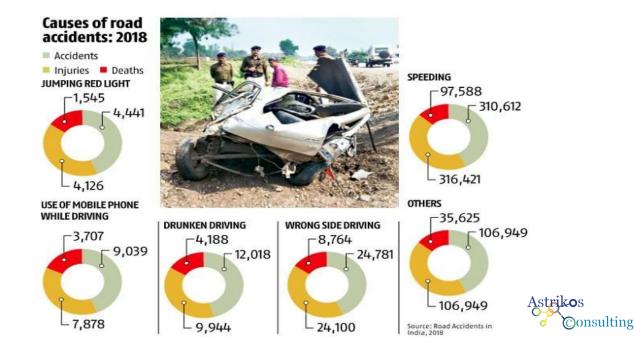


Source: Ministry of Road Transport and Highways



Insights & Key Drivers

- Most of the issues indicate "Bigger the City, Bigger the Problem!"
- High Need of Urban Mobility Management and **Technological Interventions**



17 deaths on India's roads every hour, **Chennai and Delhi most dangerous**

Official data show more people died on Indian roads in 2016 than in 2015; UP and Tamil Nadu accounted for the largest numbers of fatalities

nodal officers - DCP/ADGP, Crime: ADGP, Traffic: Director, State Crime Records Bureau -- in the 17-item

DEATHS

17

DELHI, CHENNAI

LARGEST NUMBER OF

ROAD ACCIDENTS,

7.486

LARGEST NUMBER OF

ROAD ACCIDENT DEATHS

1.591

CHENNAL: LARGEST NUMBER OF

INJURED PERSONS,

LUDHIANA:

69.9

Mumbai

No. of accidents

7,486

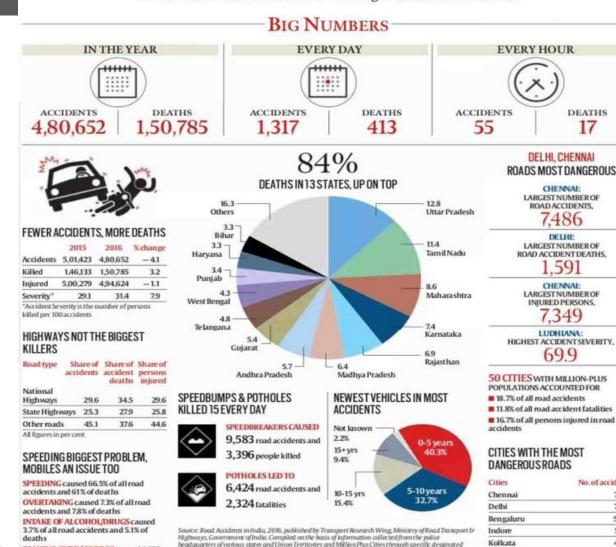
7,375

5,323

5,143

4,104

3,379



Asia Pacific Road Accident Data (APARD) format

TALKING OVER MOBILES caused 4,976

accidents, 2,138 deaths and 4,746 injuries

ICT Intervention and Indian Smart Cities

space is occupied or

vacant

server

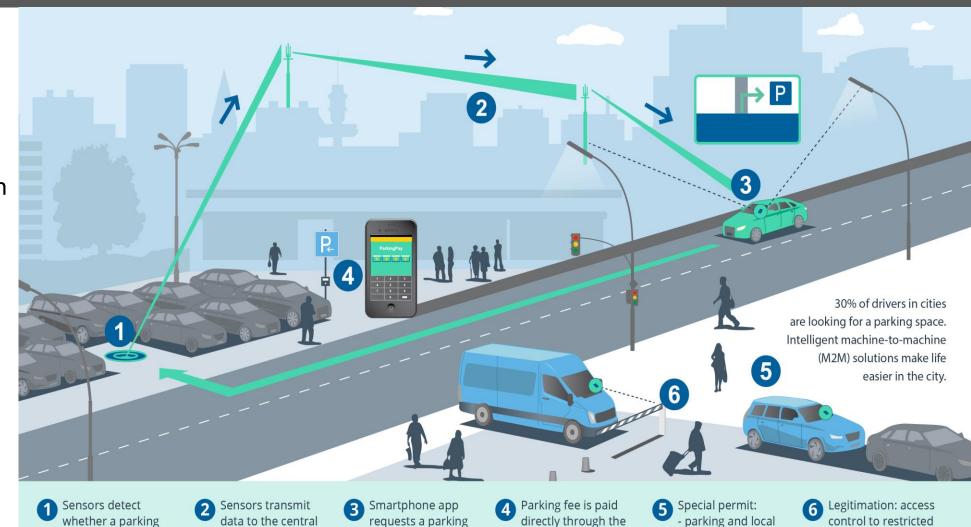


traffic areas such as

residential parking

loading zones,

- Adaptive Traffic Control
- Smart Transport and Virtual Boundaries
- GIS Enablement for Urban
 Administration
- Traffic Enforcement
 - RLVD and SVD
 - E-Challans
- Rapid Emergency
 Response Mobility
 - Ambulance
 - Fire Engines



app

resident IDs

- permits for taxis,

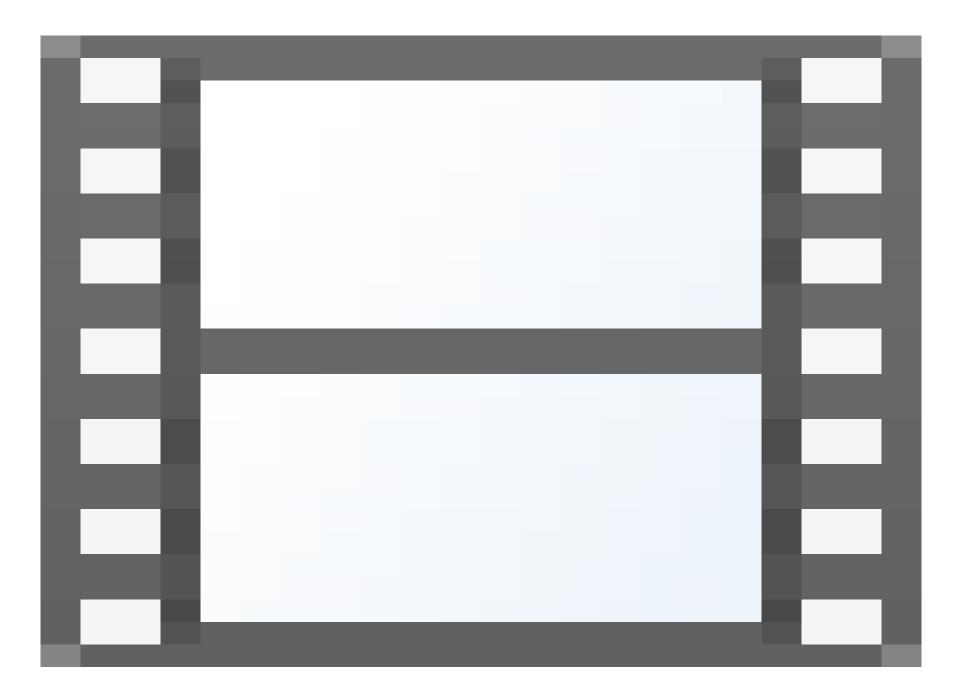
coaches, deliveries

space and guides

drivers to the free

space

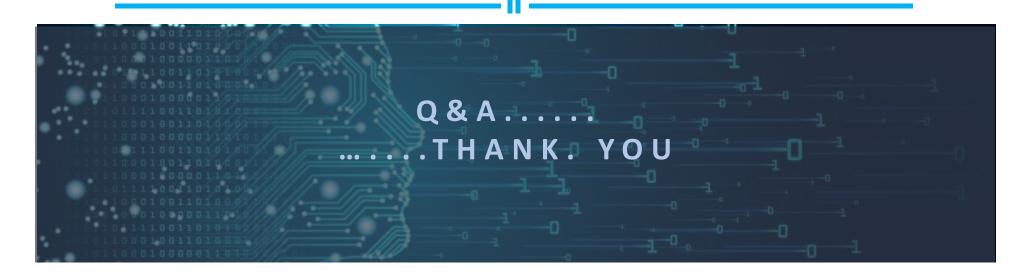












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