

ITS Applications in Smart Cities

We help people move

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ITS and Smart cities- Key Application Areas

Key Application Areas



Typical Benefits of ITS

Improved Service Quality

- On time departures, even headways, better reliability
- Improved productivity and resource allocation
 - Achieve more with the available bus and crew resource
 - Less slack time in schedules, less overtime needed, less lost-kms
 - Reassign dispatchers etc. to where they are more effective
- Improved operational discipline
 - Better driving, less accidents, better customer perception
- Accurate and extensive information for passengers
 - Waiting times reduced, passenger will wait for a good service
- Extensive information for planning and management
 - Improved corporate management, ability to track
- Complete, timely and error-free data to support administrative systems, reduced processing costs
 - Reliable means to implement contract monitoring and payments

ITS in Smart Cities- Recent Govt. Intervention

- Around 15 cities out of first 20 have major ITS intervention at PAN City level.
- 80% of cities have Intelligent Transport(Mobility components)



Pan City Solutions identified by the 20 Smart Cities

ITS Implementations in India

Transit Based ITS in Indian Cities

ITS already implemented

- Delhi (Cluster buses)
- Bangalore
- Ahmedabad (Janmarg BRT)
- Mysore
- Bhopal
- Mumbai
- Naya Raipur (BRT)
- UPSRTC
- RSRTC
- Himachal roadways

IN Process of Implementation/ Partial

- Chandigarh
- Jaipur
- Bhopal
- Mira Bhayandar
- Hubli Dharwad (BRT)
- Indore (BRT)
- Naya Raipur (BRT)
- Kolkata (CSTC



Traffic Implementations

Notable ITS implementations in Traffic:

- Bangalore, Mumbai, Hyderabad have traffic (as well as transit) implementation of ITS
- Mumbai, Pune, Kolkata and Chennai have made significant ITS applications for traffic



Potential Application Areas

Smart City - ITS Platform for Public Transport



Smart City – Unified Transport Example



Govt. Guidelines

- MoUD National Urban Transport helpline framework published.
 - Enables framework for Passenger information via various modes phone (155220), Mobile app, web sites.
- MoRTH guideline for eTolling, Vehicle Tracking devices.
- MHA 102 emergency helpline.
- Govt. Digital Payment infrastructure push BHIM, UPI payment interface, NPCI common card specifications.



NATIONAL URBAN TRANSPORT HELPLINE (NUTH) OPERATIONS DOCUMENT





Application Areas in ITS



leaders.
Key application : Shared Mobility, road safety, road charging

artificial entry barriers by technology

transparent data platforms, breaking the

Application Areas in ITS

Framework for collaborative Telematics Applications

- Govt. regulations making it mandatory to Adopt Technology platform
 - Eg. Etolling, emergency Buttons
- Need to integrate multiple data sources and share data for multiple uses..
 - MHA mandate for 102 emergency services.
 - MoUD National Urban Transport helpline
 - MoRTH mandate for Vehicle tracking

The Emergence for Govt. regulated Commercial Transport application platforms ..



Key Technology from ITS (VTS) for Road Safety

The AIS-140 certified VLT device transmits the following to the State Backend which can be used to identify offenders hence ensuring road safety



Harsh Acceleration



Harsh Breaking



Over Speeding



Route Deviation



Sharp Turning

Roadmap

Endless possibilities benefiting the commuters....



Thank You

