Re-Design Road Based Public Transport Infrastructure for De-Congestion on Roads

UNDERSTANDING KEY PROBLEMS AND THEIR SOLUTIONS

A PRESENTATION

(CONDENSED INPUTS FROM HTTP://BANGALORE.PRAJA.IN)

Jan 24, 2009

Study Reports

• Plan BENGALURU2020

- Focus on Public Transport
- Priority for Public Transport

• NUTP

- Recognizes the importance of Public Transport
- Priority for Public Transport

• CTTP

• Public Transport to be the Backbone of City's transport infrastructure

Road Based Public Transport System

- Continues to be a major player
- Serves 35% of the total traffic
- Every study and plan suggests, this to be the back bone
- Every study and plan suggests this to be the cheapest and viable mode of transport
- Has inherent benefits like economical in operation and safest among other modes
- BMTC Buses, Cabs, Autos and Mini Vans, Public Sector Buses, Contract Service Buses

Common Problems

- No integrated transit points
- No priority on roads
- Compete with cars, 2 wheelers
- Speed slow down due to congestion
- Bus/Cab/Auto stands far away
- Not public friendly
- Known for rude behavior

Current Picture

BMTC Service

- Reliability at its lowest
- Known for erratic, irregular frequency
- Some areas overly served, Most under served
- No rational for present routes and frequency.
- No planning in # of bus stops, their locations
- Il-designed bus stops
 - ×No safety considerations
 - × No vicinity considerations

Current Picture

BMTC Service

- No facility on ground for easy transfer to other modes
- No discipline in parking, stopping at bus stops
- No public evidence of fleet management, maintenance
- No evidence to suggest cooperation with other agencies
- No evidence seen for any planning for expansion and adding new routes
- No evidence seen on usage of technology for better customer service.

Current Picture

Autos

- Expensive, low on customer friendly
- Cause of rise in pollution
- Safety concerns
- Stands hardly located at right spot

Taxis/Cabs

- Expensive, known for rash driving
- Known for most accidents on roads
- Not readily available when needed
- Slightly above from autos on customer friendliness
- Hardly any stop exists

Silver lining and Motivation

Vayu-Vajra service to BIAL airport

- Reliable and Economical
- Popular among airport users
- Public likes and patronizes the service

• Re-assurance

- PT can be the choice of transport mode
- If properly run and managed, can expect public to use PT for daily commute
- Great help for industries and businesses who can not afford to ply own transport.
- Greater would be the saving on foreign exchequer

Possible Solutions

- End BMTC Monopoly
- An Independent Authority/Regulatory Body
- Infrastructure
 - Multi-Mode transit centers Integrating with Metro & other PT systems
 - Bus Stops, Parking, Maintenance Sheds at right locations
 - Customer Service Centers / Call Centers

• Redesign the Routes and Schedules

- Re-jig the whole bus route system
- Divide the area as CBD, OBD and Satellite
- Routing and frequency based on need and requirements

Trunk/Main Road Service Providers

- Leverage BMTC's fleet and operations
- Private Players to fill the gap, expansion, goods carrier and charter needs
- Feeder/Last Mile Service
 - Leverage Mini-Vans, Taxis, Cabs and Autos

Element 1 - End BMTC Monopoly

- Transfer the entire exercise of planning, scheduling and routing to Independent Transport Authority
- Convert into a 100% service provider entity
- End its monopoly on transport operation in B'lore
- Leverage its each and every asset to meet the transport needs in a newly designed PT system
- BMTC's existing assets would be in top of priority for use.
- Private Players would fill the gaps, expansion and charter needs.

Element 2 - Independent Transport Authority

- Responsible for Bangalore's all Road Base Public Transport System (RBPTS) Needs
- Works under Higher Transport authority like BMLTA
- Buck stops at this regulator
- Responsible for Planning, Execution, Operation and its maintenance
- Owns responsibility for creating RBPTS infrastructure
 MMTC, Bus Stops, Safety Provisions, Dedicated/Priority Lanes

Responsible for all expansions, changes and rebuilding

Element 3 - Multi-Mode Transit Centers

- Integrated transit Facility for all transport modes
- Concept similar to use of airport terminals by airlines
- Designed to minimum congestion due to transfers
- Congestion-less Exit/Entry points
- Priority for Mass Public Transport Service and feeder service
- Disincentive for private vehicles Higher Parking fees, Parking lots away from transit centers.
- Decent public amenities
- Safety at all times

Element 4 - Priority for Public Transport

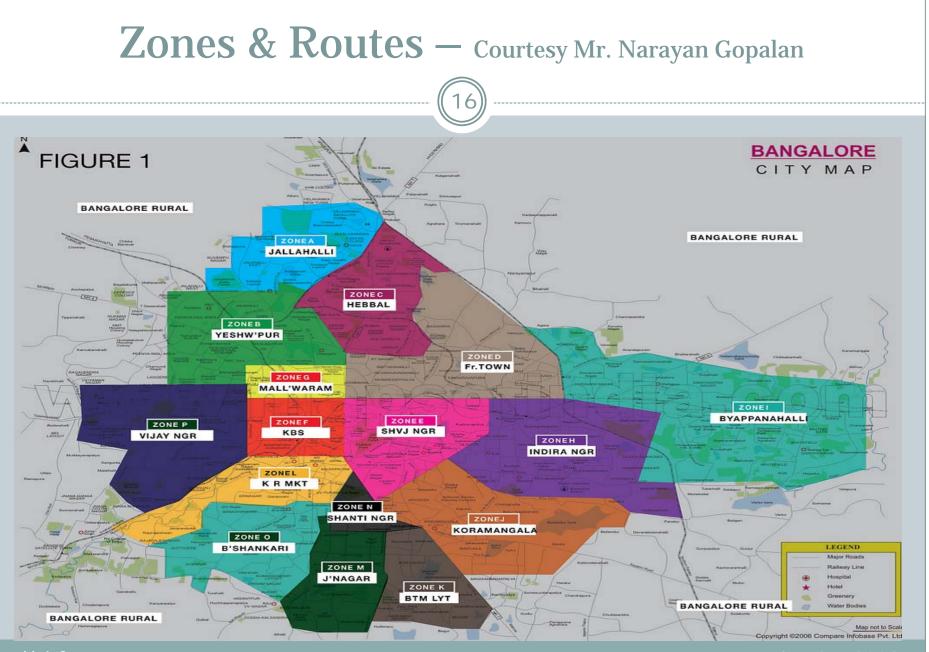
- On smaller roads, allow only PT vehicles
- Possibly, dedicated lanes as suggested in various planning forums
- Priority for Govt lands/facilities for Parking, Maintenance Sheds
- Private vehicles, only on wider roads
- Incentive for businesses/Industry to use PT Concession rates for monthly passes to their employees
- Tax Breaks for money spend on Employee's Bus Passes

Element 5 – Bus Stops

- Reconsider the present location of all bus stops
- Location, Size to fit the needs of re-vamped PT setup
- Should serve the purpose
 - PT vehicles stops only at bus stops
 - Vehicles stops at marked lanes/spots only
- Should encourage use of public transport
 - Walking distance from a locality/vicinity
 - Facilitate transfers
 - Safety 24/7
 - Aids to physically disadvantage sections
 - × Physically Handicapped, Aged, Women, Children

Element 6 - Customer Service – 24/7

- A separate department under transport authority to serve the public needs
- Physical presence in major Bus stops, in all MMTCs
- Available by Phone and Web
- All data/schedules display to be current
- Facility for filing complaints/suggestions
- Policy for response to complaints/suggestions
 - Display it on websites
 - Facility to know the status
 - Facility to appeal the decisions



V-1.0

Element 7 – Redesign Routes

• Divide the city into zones

• Partition the city areas into Zones

- × As given in the diagram
- × Further into CBD Zones, ORR Zones, PRR Zones
- Re-use the present depots/bus stations, future MMTCs to be Zone center
- Future expansion to be considered as Satellite Zones

Re-jig the present routes

- o Zone-to-Zone Routes
- Intra-Zone Routes serving the zone localities
 - × Trunk/Main Road Routes,
 - × Feeder/Last mile Routes

Re-Design Routes – Part 2

• Single fare/ticket for complete journey

- Same ticket should be valid up to the destination
- Promote return ticket purchases
 - × Economical than purchasing separately
- Make monthly passes economical
- Allow transfers from other PT modes like Metro, Trains, RTCs

Special Services

- Continue/Spruce up the VV service to BIA
- **o** Provision for starting Planned Circular Shuttle Routes

Satellite Zone routes

- Routes serving localities under it
- Connects to nearest Zone Center
- Charter Services
- School Routes

Element 8 – BMTC Bus Service

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- As a service provider only
- Current fleet to be deployed 100% for zonal routes
- Inter Zone Routes Service
 - Between zone centers
 - Fast, minimum stops

Intra Zonal Routes Service

- Serving zonal localities
- Starts/End at zone center
- Buses to be run only on trunk/main roads

Element 9 – Feeder/Last Mile Connectivity

- New policy to regulate Taxi/Cab/Auto services.
 - Promote fuel efficient vehicles Stop issuing new licenses for autos?
 - Promote private and economically disadvantage sections
 - License renewal based on Highest Safety compliances
- Part of Public Transport System
 - Feeder service
 - Last mile connectivity
 - No scope to decline a passenger request
 - Highest level of customer service
 - Non compliance a cause to loose the contract/license

Element 9 – Private Bus Service

- Fills the short fall from BMTC service
- Mainly on Zone, Trunk, Satellite Routes
- For all new additions on inter-zone/intra-zone routes
- For all new additions on Satellite Routes
- For Semi-Goods Carriers Service
- Allow single vehicle owners also
 - Must arrange backup if needed
- Preference to economically disadvantage sections
- Owns all Profits/Losses

Element 10 – Semi Goods Carriers

- Special service from designated locations and timings
 - Fruit/Vegetable Market in K R Market to various BBMP run markets
 - Specially in Morning
- Special service allowing carrying of goods along with passengers
- Should be like BIAL concessionaries operating taxis to BIA