Leap-froging Public Transport Improvement in Kuala Lumpur City through NKRA

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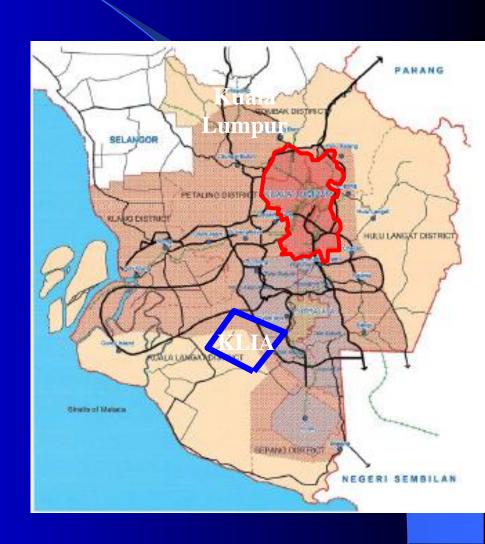
Kuala Lumpur City: Landuse/Transportation
 Public Transportation Management: Issues & Solutions
 Lessons & Experience
 Moving Forward through NKRA

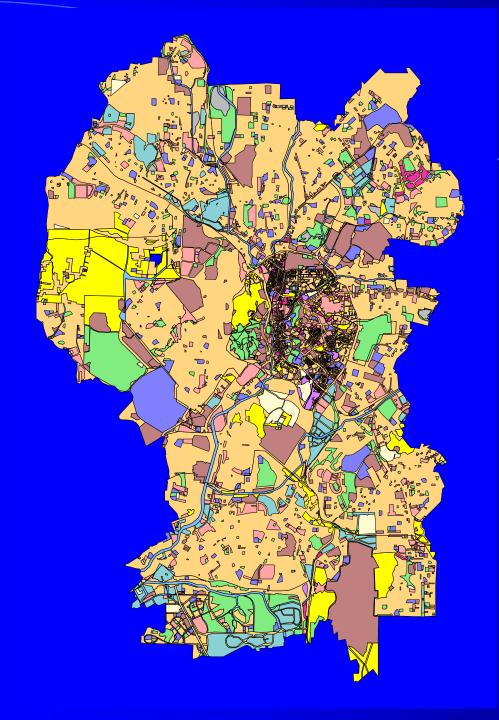
Kuala Lumpur- Capital City of Malaysia



Kuala Lumpur and Its Conurbation

- **4**,000 sq. km. (243.56 sq. km)
- 4.8 mil.pop. (1.6 mil) (2008)
 Density: 6569 person/sq.km
- **6.0** mil.pop. (**2.2** mil) (2020)
- 3.0 mil vehicle population:1.89 cars/ person
- Employments : 58 % of total employments
- 9 local authorities

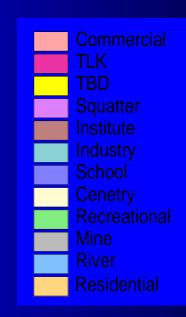




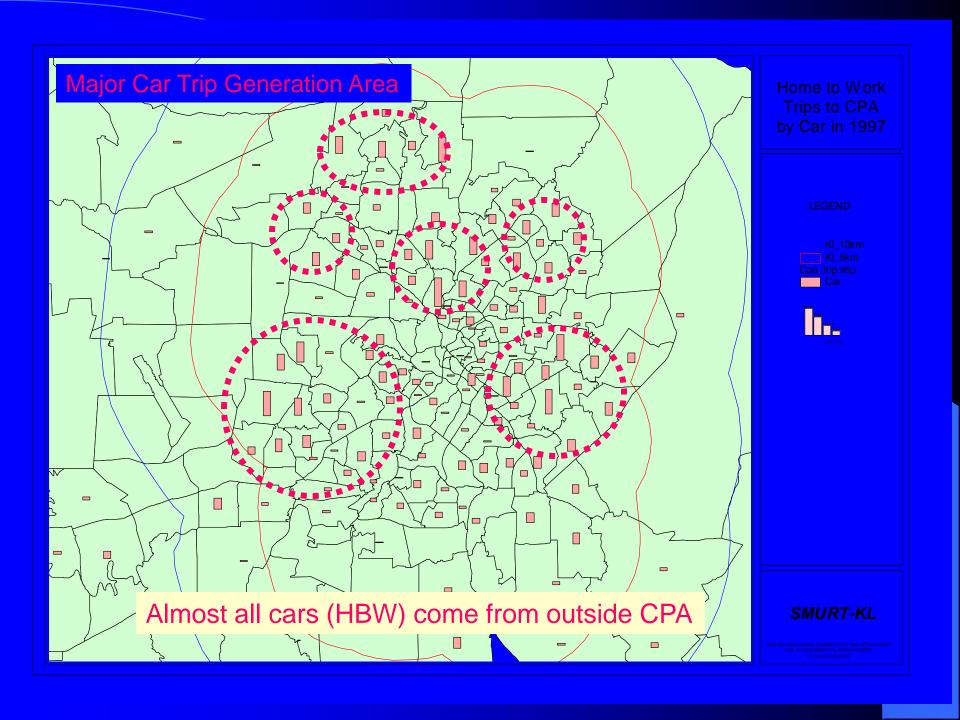
Land use of KL City

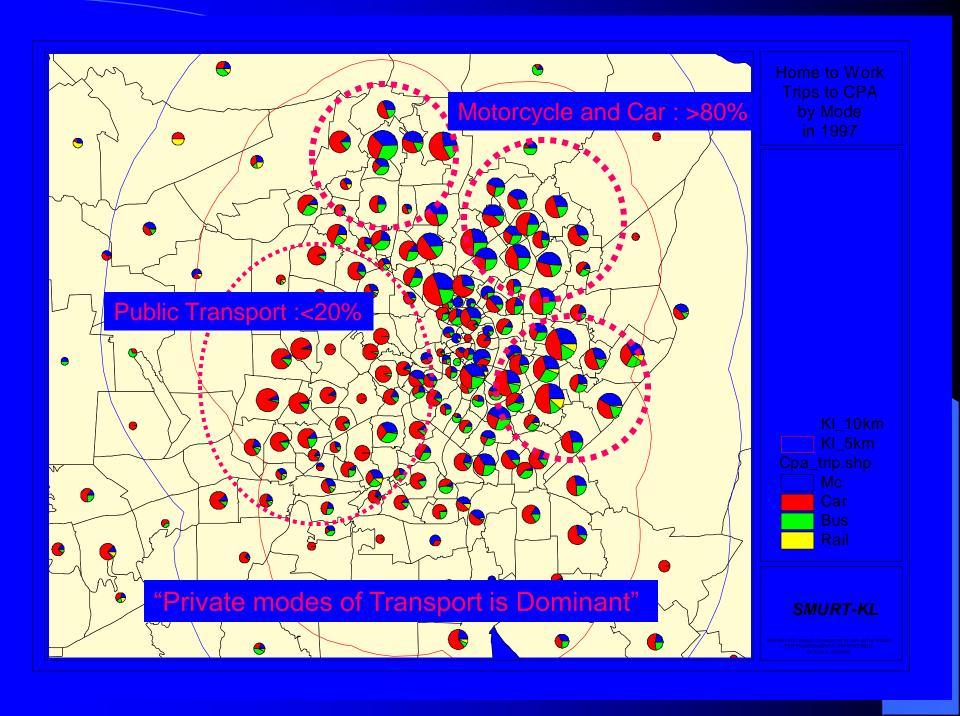
Most commercial / business activities are concentrated in CPA.

Residential areas are surrounding CPA.



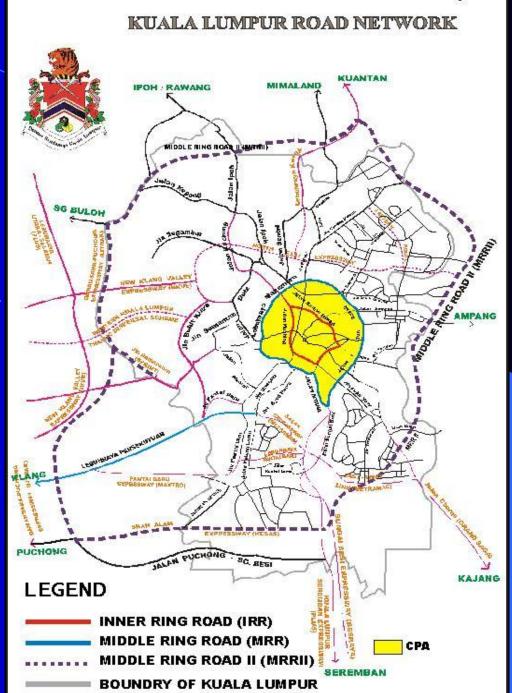
SMURT-KL



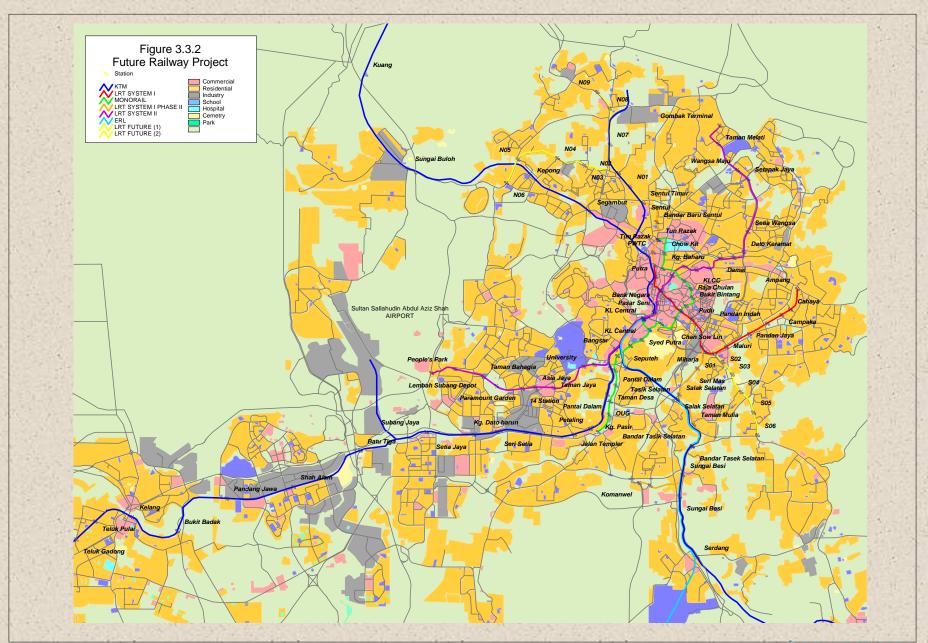


Comprehensive Ring/Radial Road System

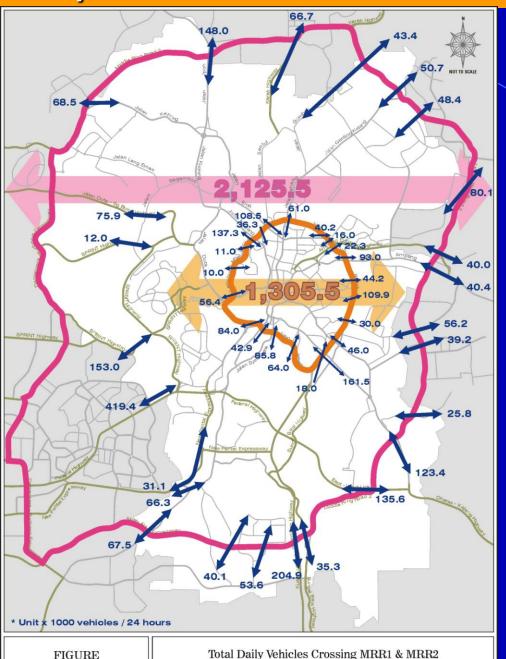
- -Toll Expressway
- -Elevated Highway
- -Elevated Interchanges



Current Rail Network Plan



Daily Traffic Flow Situation on KL Road Network (2005)/(2008)



On a daily basis:

- •1.305 million vehicles cross the MRRI (1.462 mil)
- •2.125 million vehicles cross the MRRII (2.381 mil)
- •70% vehicle trips crossing MRRI (42,600 vehicles) and MRRII (86,500 vehicles) during AM peak hour are SOV.
- •65% crossing MRRI (39,100 vehicles) and MRRII (84,500 vehicles) during PM peak hour are SOV.

Total Volume Entering CPA =1,260,000 pcu/day (1,411,200)

KL's Experience in Addressing Urban Congestion and Public Transport Improvements - Past and Present -

• 1960s

- Road Constructions and improvements is the solution for traffic congestion
- Focusing on vehicular traffic and mobility

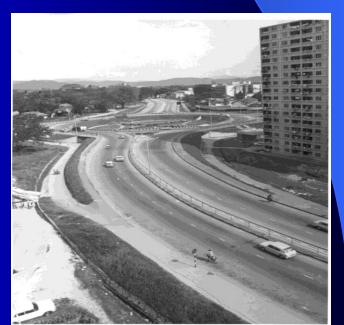
Jalan Tun Razak: Traffic Congestion in the 1960s





Solution of 60s: Construct new roads and interchange

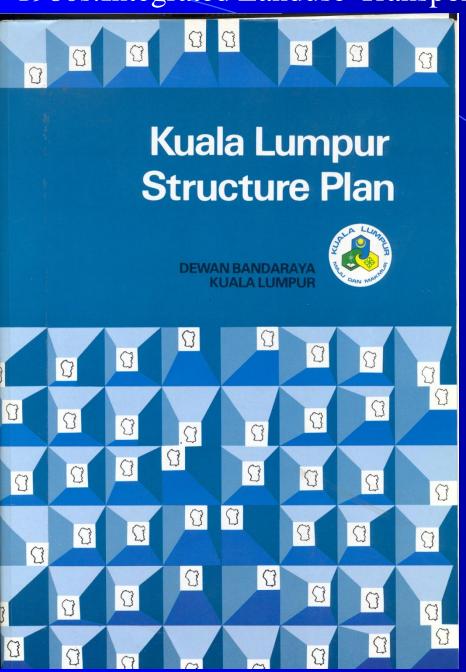




1970s Solutions

- Realization of 'more roads more congestion'
- Focus on traffic management
- Setting up Traffic Management Department in DBKL

1980s:Integrated Landuse-Transportation Planning



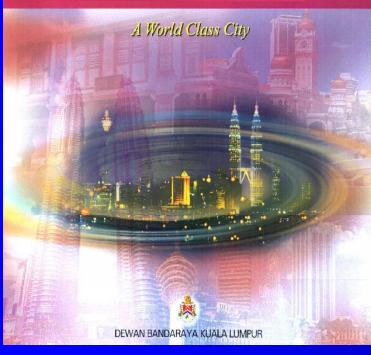
Balanced Public Transport and Private Transport Policy

- Proposed LRT routes
- Reorganised bus network
- Single regulatory authority

2000s STRATEGIC THRUSTS

 To promote a more sustainable and environmentally friendly transport system

Draft Kuala Lumpur Structure Plan 2020



KLSP Policies for Public Transport

- TT1: CHKL shall determine Travel Demand Management measures to increase public transport usage and liase with the relevant authorities to ensure that these measures are implemented.
- TT4: CHKL shall establish a Transit Planning Zone to facilitate intensification of transit oriented residential, commercial and mixed-use development around rail stations.
- TT5: CHKL shall assist to coordinate the planning, development and operation of public transport and related private transport matters.
- TT6: CHKL shall assist in the implementation of a fully integrated transportation system in line with the government's policy.
- TT7: CHKL shall assist in the preparation of feasibility studies for future extensions to the rail network and coordinate with the relevant authorities with regard to implementation.
- TT8: CHKL shall assist in determining measures to improve bus services with maximum penetration into growth areas and all major employment and retail centres and coordinate with the relevant agencies and operators.

2000s Solutions

- Proposed Strategies for Public Transport
- 1. Public Transport Authority
- 2. Integrated Ticketing System
- 3. New Rail Lines and Extension Lines
- 4. Reorganized Bus Routes
- 5. Bus Terminals
- 6. Park-n-Ride

Revisiting Yesterday's Solutions for Public Transport Improvements

- Undergone 3 major stage of improvements and implementing Stage 4 strategic enhancement
- Fully complying to the strategic plans as proposed but resulting a scenario of 'Yesterday's Solution to Today's Problem'
- Outcome in terms of modal split is below expectation

The highlights of staged improvement of Public Transport

- Stage 1: introduction of mini bus services in early 1980s
 - HK's model of mini bus services
 - Focus on wider coverage with more buses
- Stage 2 : revamp of bus system operation in early 1990s
 - Algamation of 8 operators & a fleet of 1200 mini buses
 - Implementation of bus lane network

The highlights of staged improvement of Public Transport

- Stage 3: rapid rail transit implementation in late
 1990
 - The Putra & Star LRT system
 - The electric commuter train system
 - The Monorail system

Urban Rail Transportation System



Light Rapid Transit



Intercity Commuter Train



Light Rapid Transit

Express Rail Link



Monorail



The outcome

- The mini bus syndrome
 - Provide a fast & reliable service at the expense of traffic chaos and passenger safety
 - Totally out of control & eventually abolished
- The Bus Almagation breakthough
 - From 8 operators to 2 and back to 14
 - A complete failure in the bus operation revamp
- The arena of rapid transit operation
 - Unprecedented achievement of rail implementation
 - Government intervention to prevent collapse of the rail operation

Contrasting Outcome with Reality

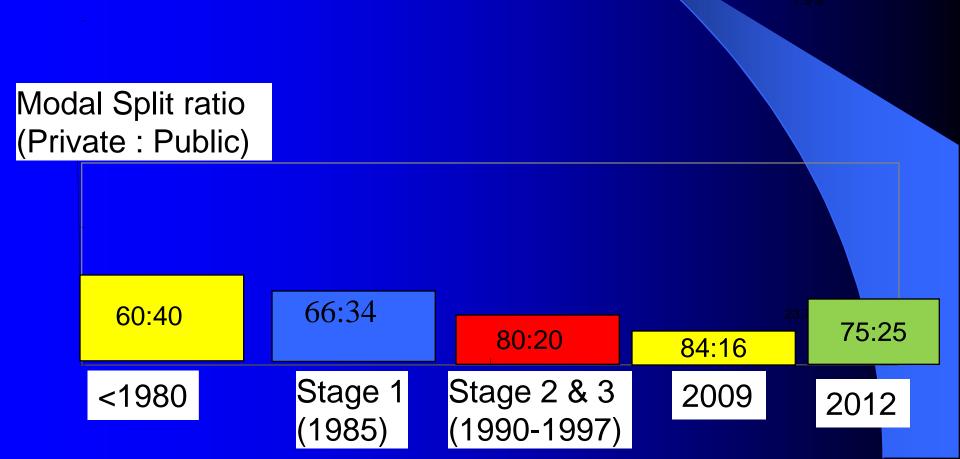
Expected Outcomes:

- very reliable public transport system
- traffic congestion is a thing of the past

Reality

- more tolls to be paid
- more congestion
- more grouses for inefficient public transport

Change of Modal Split Composition: 1980 - 2009



Lessons Learned From Yesterdays' Solutions

- Top Commitment and political will
- Pull Factor is not enough
- Failure to gauge the importance of integrated bus/rail transit operation
- No system to effectively monitor and regulate performance of public transport operations
- Severe time-lag between planning and implementation

The Transformation Improvement of Public Transport

- Stage 4 : The NKRA Approach
 - Part of the Government Transformation Programmes
 - Urban Public Transport is one of the six National Key Result Area
 - Focus on what the 'Rakyat' wants
 - Quick Win with Great Impact
 - Designate Ownership for programme implementation, coordinated and monitored by Special Unit responsible to Prime Minister

- Stage 4: The NKRA Approach—The Big Bang & Quick Win
 - Debottleneck system capacity
 - Increase rail capacity by adding more coaches
 - Increase number of operating stage buses
 - Enhanced 'Pull' factor to draw passengers to public transport
 - P & R at strategic rail stations
 - Introduce new BET services
 - Revamp common ticketing to integrated ticketing
 - Utilising ITS for stringent performance monitoring
 - Relocate terminal facilities for inter-city express services
 - Integrated Transport Terminals at fringe of city centre
 - Regulatory restructuring
 - SPAD
 - Managing demand through "PUSH"
 - Congestion charging

Expected Outcome from NKRA

Targeted Modal Split by 2012: 25% for Public Transport Usage in Peak Commuting Periods

Bus services

- Addition of 850 buses operating on the road
- 4 Bus Express Transit & 2 Bus rapid Transit services
- 1700 unit of bus stops to be equipped with shelters

Rail services

- 61 x4-car train sets for existing LRT KJ line
- 14 new trains for LRT AMG line
- Completion of LRT extensions
- Doubling the capacity of existing monorail
- Refurbished 15 electric commuter EMUs

Terminals & Integration

- Completion of two Integrated Transport Terminals
- Upgrade 2 existing terminals to be Inter-urban bus terminals
- Addition of 6800 parking spaces for P&R
- Integrated Enforcement &Performance Monitoring for public transport services

CONCLUSIONS

- Managing urban transportation systems in a city is a dynamic process and requires continuous innovative strategies.
- With the strategies implemented, we are optimistic to say that public transport usage will be increased and congestion will be within tolerable level
- Shaping a positive trend of public transport as the major mode of travelling choices

THANK YOU