





Urban traffic situation and possible solutions for HANOI





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Contents



Overview of Urban Transportation in Hanoi

□ Hanoi Traffic: Problems and Causes

Possible solutions: innovative activities

□ Some remarks and recommendations



Overview on urban transportation

Road infrastructure: Improving slowly & inadequate...



No of

No of

Urban Transport Problems



Accidents

- High rate of fatalities
- Occurred mainly on the urban arterials and sub-urban highways
- Severe accidents occurred frequently during night time and off-peak period
- Congestion
 - Extremely high volume
 - 60% travel time is delay

Pollutions

- Noise: is the most serious environmental problem of motorcyle use
- Air pollution: two-stroke engine motorcyclees

Causes of the Problems



□ Internal Causes: Transport Issues

- ± Demand: high intensity and imbalanced distribution
- Vehicles: mixed vehicle technologies on the traffic flow
- Behaviours: immature responses to motorisation of transport
- Road Network: imbalanced distribution, lack of hierarchy, nonstandard alleys
- Parking: lack of area and facilities, No consideration for MC
- Public transport: low availability and quality
- Traffic Management: confusing and low effectiveness
- ± Urban and Transport Plans: failed by
 - Ambitious goals and objectives
 - ± Foreigner dependent planning
 - Lack of resources (technical, financial, human)
 - Complicated structure and low competency institutions

Causes of the Problems



External Causes: Urban development Issues

- Political and socio-economic conditions
 - Frequently changing laws and regulations, and institutional structure
 - Quickly increasing income
 - Social conflicts between different income groups and cultural trends.
- Demographic conditions
 - Rapid and uncontrolled urbanisation
 - High density population
- Urban form and Land use conditions
 - Mono-centric urban form
 - Mixed land use in the city centre
 - Sprawled and uncontrolled development in the newly urbanised areas
 - Two-wheeler accessed only block



Compact city concept and Land use change



Public transport user incentives



Urban transport information system: Integrated Traffic Management Centre



Source: Straßenverkehrsamt Stadt Frankfurt am Main: IGLZ – Integrierte Gesamtverkehrs-Leitzentrale der Stadt Frankfurt am Main. 2006 / www.mainziel.de

Urban transport information system: Driver information





Traffic Calming Zone







http://vnexpress.net/gl/the-gioi/australia-trong-toi/2011/04/mot-goc-sydney/ http://thethaovanhoa.vn/475N20111117085254343T0/ngo-nho-pho-nho.htm

Some remarks



- Hanoi is still depending on motorcycle strongly in term of accessibility and mobility
- Car use in growing and evidently causing both congestion and accidents
- □ Almost no chance to have balance car dependent situation
- Transit Oriented Development is a solution but may be the best but may not be the optimal solution within the period of 10 to 15 years
- □ Cleaner and Safer Motorcycle in combination with bus transport improvement should be emphasized!!!
- Traffic Management must become key strategy in the urban transport development process of Hanoi

Recommendations



- Establishment a comprehensive dynamic Traffic Model for Hanoi to use as the basis for traffic management of Hanoi transport system
- Intelligent Traffic Management Strategy must become major strategy in formulation and implementation of Hanoi Urban Transport Master Plan to 2030 vision to 2050
- To conduct a comprehensive study on traffic management plan for Hanoi in a period of 5 year with a vision to 10 year.
- Identify clearly the functions and responsibilities of related governmental authorities and agencies in traffic management.
- Recognize urban traffic quality as one of the key performance indicators of Hanoi's Chairman of People Committee and Party Leader



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Thank you for your attention!