

Ministry of Natural Resources and Environment (MONRE)  
Ministry of Transport (MOT), Ministry of Health (MoH)

**Aichi Statement and  
ENVIRONMENTALLY SUSTAINABLE  
TRANSPORT IN VIET NAM**

*2<sup>nd</sup> EST Forum, Yogyakarta,  
December 11-12, 2006*

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1. State of Aichi Statement issues in Viet Nam
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# Public Health

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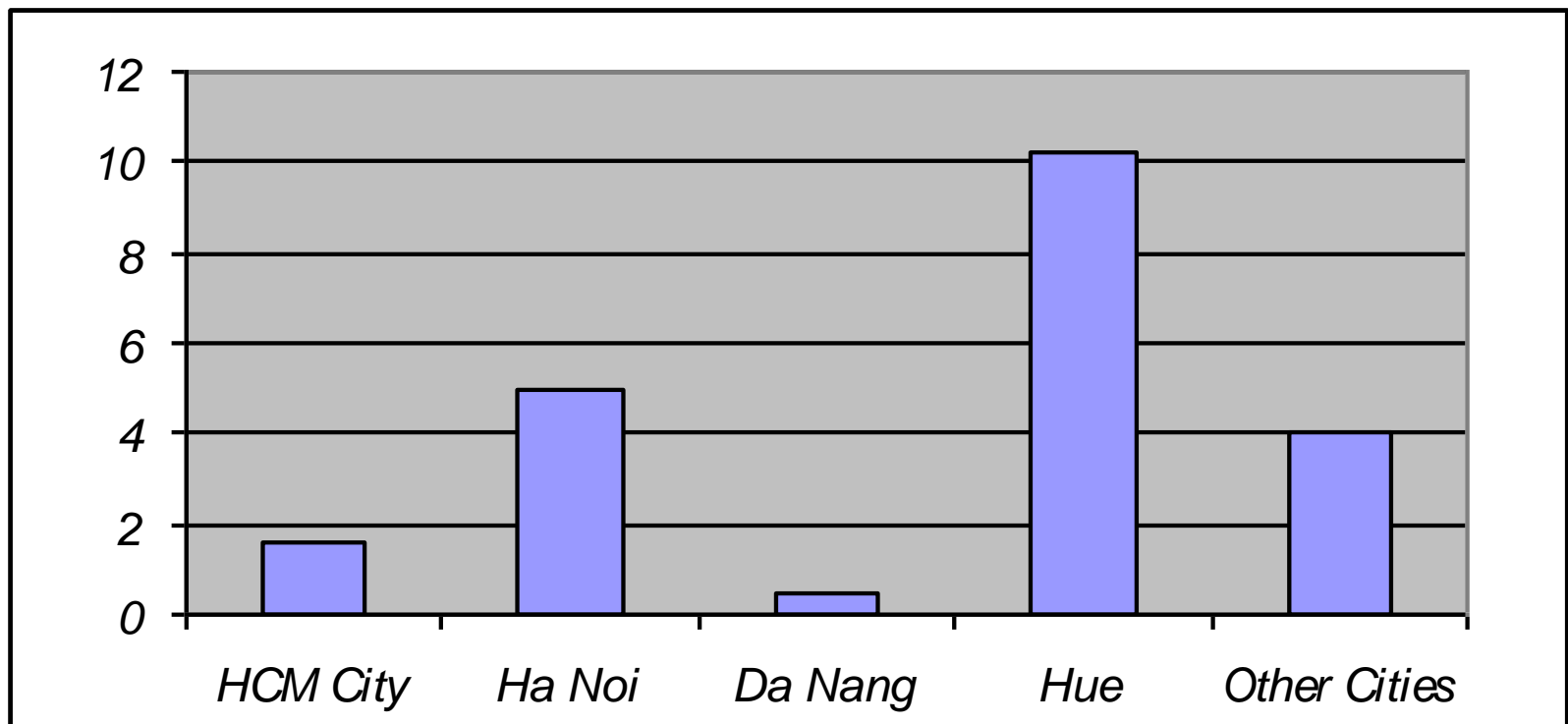
## **Air pollution by transport has seriously damaged the health of people:**

- Of 100,000 people in Ha Noi there are:
  - 415 with pneumonia
  - 315 with tonsillitis
  - 305 with bronchitis
- Averagely 1.0 bill VND (~60,000 USD) per day is the amount to cover the cost for health care caused by air-pollution diseases in Ha Noi.

*Source: Institute of Labour Medicine; CETEEA*

# Land-use planning

## Green zones ratio in cities (m<sup>2</sup>/person)



*Source: Ministry of Construction*

# Land-use planning

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- Land area allocated for roads in Ha Noi is 6.1% (1% for stationary transport) compared to 20-25% in developed countries.
- Many narrow streets and by-streets where there is no access to public transport, fire trucks, ambulance...
- No safety corridor for railway transport in Ha Noi
- Houses are opted to be located on the roadsides

# Environment & People Friendly Urban Transport Infrastructures

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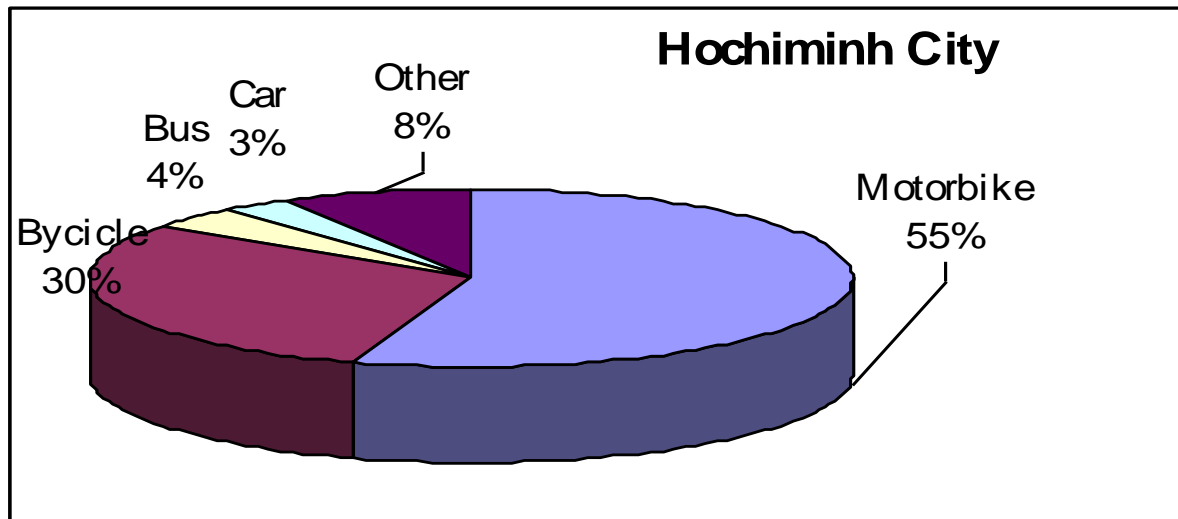
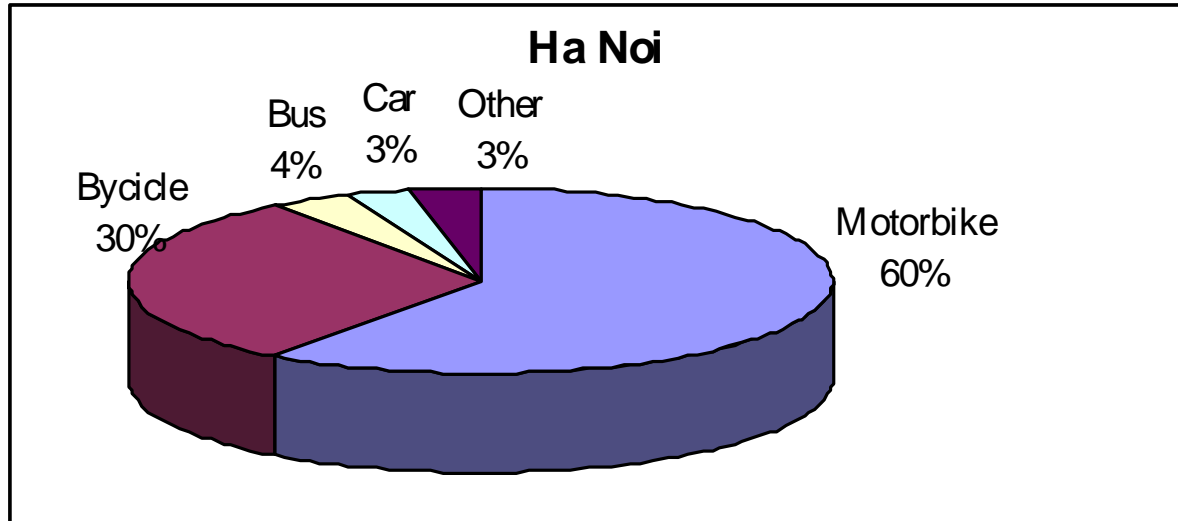
- Ha Noi: 108 traffic signals, not all the intersections are equipped with signals
- Construction of flyovers in big cities to avoid congestions and traffic jams
- Very few separate lanes for bicycles, narrow pavements, and no facilities for disables.

# Public Transport Planning/ Non-motorized Transport

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- The usage of public transport has increased in recent years up to 8% in Ha Noi. New bus lines have been established, inner and out of the city
- To develop public transport: BRT, elevated railway and subway in Ha Noi and HCM cities
- The tendency is to develop motorized transport. Bicycles have less roles in big cities
- Low number of walking people due to high number of motorbikes
- Many streets without pavement in Ha Noi and so no space for walking

# Usage of transportation means (2003)





# Social Equity and Gender Perspectives

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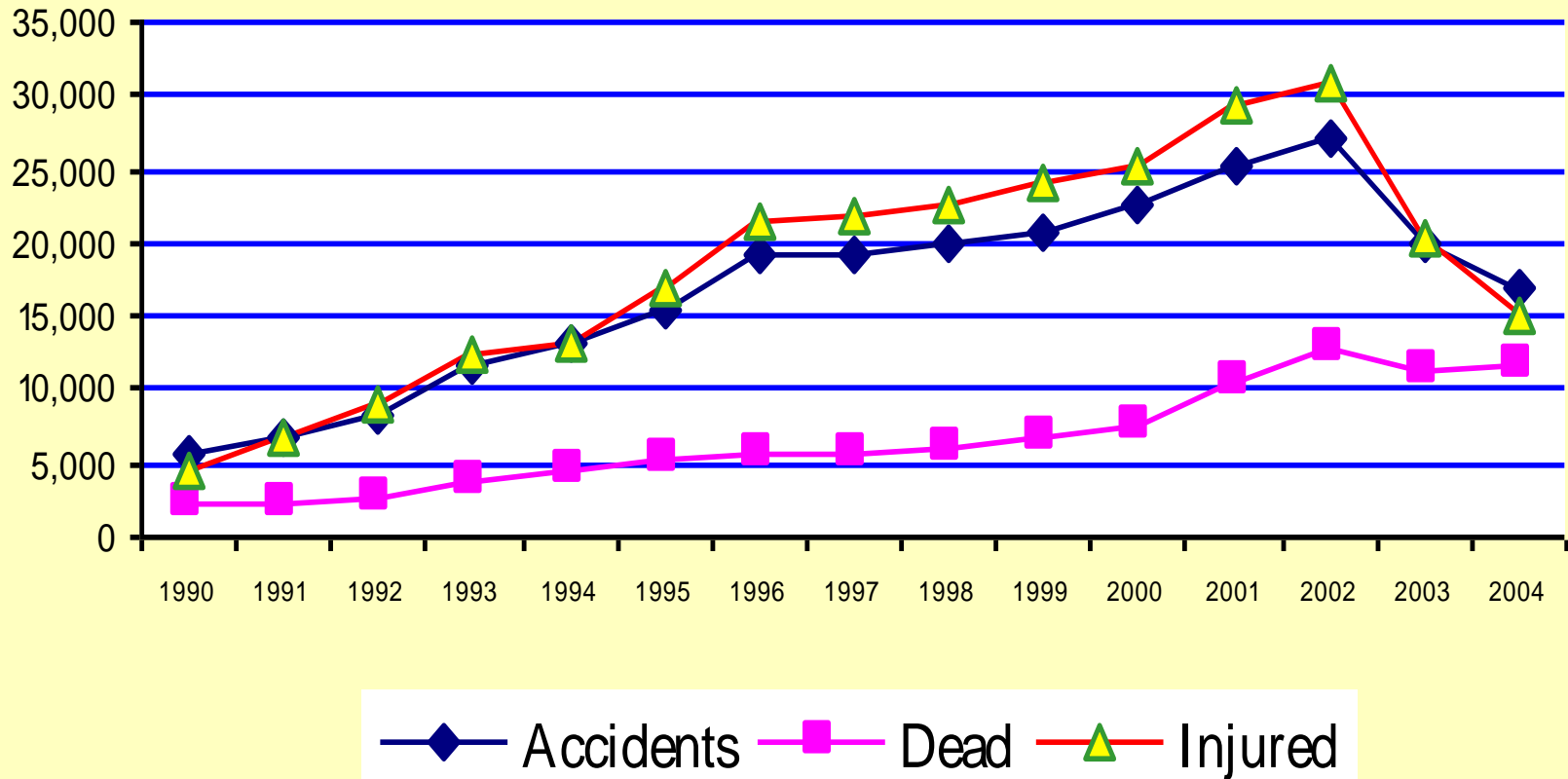
- Women and men are equally treated in Viet Nam, including in the transport sector
- Women and children can travel alone in public transport means
- Students are given with cheaper tickets for public transport
- No special attention has been paid for disable, children and elderly people

# Road Safety and Maintenance

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- **High number of traffic accidents, dead and injured people**
  - In 2005: - Accident: 14,711
    - Death: 11,534
    - Injured: 12,013
  - From January – June 2006: 7,386 accidents with 6,320 people dead; 5,866 people injured.
- **Averagely ~ 35 dead and ~ 45 injured people every day caused by transport accidents in Viet Nam**
- **Financial damage: 885 mill. USD/year (according to ADB estimation)**

# Trend of Road traffic accident and human lives damages



Source: National Traffic Safety Committee

# Traffic Noise Management

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- Planning to construct highway far from residential area
- Traffic noise barriers only with trees beside the roads
- No concrete, wooden or metal barriers on any road in cities

# Inspection and Maintenance

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- Viet Nam Register is responsible for carrying out safety & environmental protection inspections of automobile
- None inspection is required for motorcycles
- There are 78 inspection stations all over the country
- None Inspection Station capable of carrying out emission test according to EURO standards
- Inspection on emission is available only in Ha Noi, Hai Phong, Da Nang, Hochiminh City and Can Tho

# Vehicle Emission Control

Current emission standard for new and existing vehicles (TCVN 6438-2005)

Pollutant		Gasoline Automobile	Gasoline Automobile	Motorcycle
CO (%)		4.0	-	4.0
HC (ppm)	4-stroke	1200	-	1200
	2-stroke	7800	-	7800
	Special	3300	-	-
Smoke (HSU)		-	72	-

# Vehicle Emission Control

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## Decision 249/2005/QD-TTg:

- New vehicles should apply EURO 2 from 1<sup>st</sup> July 2007
- Existing vehicles to apply TCVN 6438-2005 from July 1<sup>st</sup>, 2006 in Ha Noi, HCM city, Can Tho, Da Nang, Hai Phong. Other cities will apply 01 year later.

## Tentative Roadmap:

- EURO 3: 2009: for motorcycles and mopeds
- EURO 4: 2010: for automobiles

# Cleaner Fuel

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- Leaded gasoline is phased out since 2001
- Some taxi in Hanoi have already used CNG as fuel
- A research on usage of CNG for motorbike has successfully completed recently at the Da Nang Polytechnic University



# Awareness Raising and Public Participation

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- Traffic rules awareness campaign funded by Honda Viet Nam on TV channels
- September is the month of Safe traffic
- Publishing journal dedicated for environmental issues in transport sector
- Holding seminar, workshops, training courses on traffic safety & transport environmental protection

# Awareness Raising and Public Participation



*Client* : Honda Viet Nam  
*Corporate* : Safety  
*Title* : Father and Son  
*Agency* : Dentsu  
*Prod House* : SHU'S SAIGON  
*Post House* : Power Post  
*Duration* : 30 sec  
*Date* : 09 06 2004  
*Remark* :

# Awareness Raising and Public Participation



# Challenges for EST in Viet Nam

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- Rapid urbanization leads to increase of number of vehicles in big cities
- Under-developed transport infrastructure. Inadequate planning toward an environmentally and people friendly transport. No attention has been paying to disables, elderly people
- Low awareness and sense of obedience of population to traffic regulations
- Under-developed public transport with low ratio of usage
- Limited budget for transport

# Recommendations for promoting EST

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- To raise awareness and to decrease the number of traffic accidents and dead and injured people
- To develop regulation on use of helmets and strengthening of it's enforcement.
- To develop public transport in big cities
- To plan a environmentally and people friendly transport infrastructure
- To promote regional and international cooperation
- To strengthen capacity of environmental, transport and health agencies on EST
- To apply and strictly enforce implementation of vehicle emission and fuel quality standards, inspection and maintenance of vehicles

**Thank you for your attention!**