

# CITA

The International Motor Vehicle Inspection Committee has pleasure to welcome you at the 2006 CITA Conference in Hanoi, VIETNAM

## 2006 CITA CONFERENCE

'The future of Vehicle Inspection – Contributing to Sustainable Road Transport'  
'Developments in Inspection of 2 & 3 Wheeled Vehicles'



## OPENING SPEECH 4



In-service Vehicle Inspection



Road Transport



Road Transport

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**'The future of Vehicle Inspection – Contributing to Sustainable Road Transport'**

**'Developments in Inspection of 2 & 3 Wheeled Vehicles'**

## **The World Bank and Air Quality Control Initiatives in Transport**

**Speaker : William D.O. Paterson**  
**Organization : World Bank**  
**Country : Vietnam**

# THE WORLD BANK AND AIR QUALITY CONTROL INITIATIVES IN TRANSPORT

CITA Conference  
Hanoi, October 2006



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## World Bank's Overall Objective

World Bank's overall objective of promoting transport development is environmentally sustainable and least damaging to human health and welfare.



## WB Recent Publications (1)

- **Air pollution from motor vehicles: standards and technologies for controlling emissions**
  - This *handbook* presents a state-of-the-art review of vehicle emission standards and testing procedures and attempts to synthesize worldwide experience with vehicle emission control technologies and their applications in both industrialized and developing countries
  - It is one in a series of publications on vehicle-related pollution and control measures prepared by the World Bank in collaboration with the United Nations Environment Programme



## WB Recent Publications (2)

### Improving urban air quality in South Asia by reducing emissions from two-stroke engine vehicles

- 2-stroke engines up to 10x more particulates, 15-40% higher fuel consumption than 4-stroke engines
- The report analyzes different technical and policy options for reducing emissions from two-stroke engines.
- Immediate simple solutions to reduce emissions and save drivers money
  - correct type and concentration of lubricant
  - regular maintenance and effective inspection
- Emission-based standards more cost-effective than policies dictating a specific technology
- Partnerships among government, industry, and the public important for the changes required to achieve air quality goals.



# Pollution from Motorcycles in Asia: Issues and options (2000)

- **Improve information** –
  - Ambient air quality, PM standards, PR on fuel mix and vehicle maintenance, cost efficient retrofit technologies
- **Improve two-stroke performance**
  - Min. gasoline quality stds, premixed fuel (ban loose oils), systematic inspection and maintenance, incentives for retrofiting
- **Replace high polluters**
  - Identify high polluter ages/categories, upgrade non-conforming vehicles, tax incentives, reduce import duties on benign technology
- **Progressively tighten standards**
  - New vehicles, emphasize emission standards rather than specific technologies, review standards regularly
- **Encourage collaboration between vehicle manufacturers and fuel suppliers**
  - Encourage government announcement of long-term objectives on fuel quality and emission standards



# World Bank Air Quality Projects and Programs in Asia (as of 2005) (1)

- **Completed projects**
  - India Urban Air Quality Management
  - Renewable Energy Scale-up Program (China)
  - Shandong Environment Project (China)
  - South Asia Urban Air Quality Management
  - Strengthening the Institutional and Policy Framework for Urban Quality Management (Sri Lanka)



# World Bank Air Quality Projects and Programs in Asia (as of 2005) (2)

- On-going projects

- Bangladesh Air Quality Management Project



- Beijing Environment Project II

- Energy Conservation Project,  
Phase II (China)

- Mumbai Urban Transport  
Project (India)

- Shijazhuang Urban Transport  
Project (China)

- System Energy Equitization-  
Renewal (Vietnam)

- Wuhan Urban Transport Project (China)

- Road Safety Project (Vietnam)



## World Bank Air Quality Projects and Programs in Asia as of 2005) (2)



- **Planned Projects:**
  - Fuzhou Nantai Island Peri-Urban Development Project (China)
  - Hanoi Urban Transport Development Project (Vietnam)
  - Tianjin Urban Environment Project II

# World Bank Transport Vehicle I/M Project and Programs in Vietnam(1)



- **Road Safety Project –**  
*Vehicle inspection computer system upgrade.*

Subcomponent will support the Vietnam Register in upgrading the national vehicle inspection system including:

- **Specialized vehicle inspection equipment** at three primary national vehicle inspection stations (Hanoi, Ho Chi Minh City, and Vinh Long).
- **Equipment in vehicle testing stations** and equipment to conduct **mobile vehicle inspections** in three demonstration corridors.
- Preparation of Feasibility Study for model **testing facility for new assembled vehicles and new imported vehicles.**



# World Bank Transport Vehicle I/M Project and Programs in Vietnam(2)

## Hanoi Urban Transport Development Project - *The Hanoi Motorcycle Clinic Program*

- Aims at lowest level stake holders - the drivers/owners.
- Main objective - reduce the pollution from motorcycles through I&M by holding clinics to:
  - Create awareness of the transport (especially among motorcycle owners) related air pollution and their control.
  - Build human and institutional capacity to conduct future programs for the reduction of air pollution from motor vehicles.
  - Add to the data base on:
    - I& M Practices and level of expertise among mechanics for the work
    - Mechanical state of the in-use vehicles
    - Health status of the drivers
    - Effect of improved I&M on emission
  - Survey to determine capacity of owners to replace aging motorcycles.





# Thank you!

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