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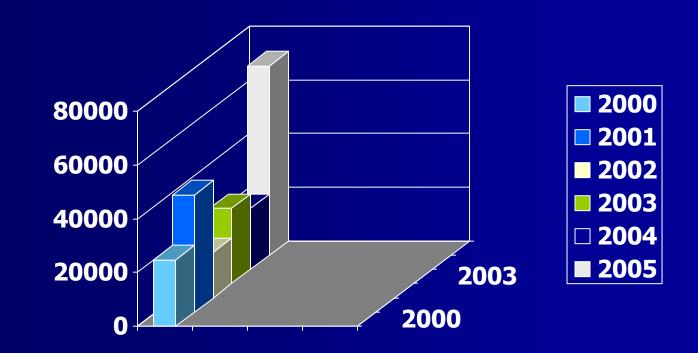
1.0 Introduction

- Transportation is one of the major sectors to contribute the socio-economic development.
- It is recognized to be inadequate support comparing to the current high demands reflecting to prioritized sectoral development of Cambodia.
- Emerging issues like air pollution, traffic congestion, etc. caused by sectoral development are threatening the economy itself.

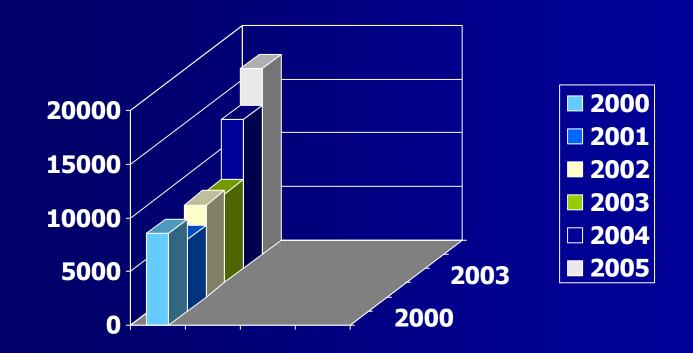
1.0 Introduction (cont.)

- High traffic accident is another major concern, and being taken in action by the Royal Government of Cambodia in consistent with public awareness (e.g. driving, traffic legislation) and their participation seem to be limited.
- Therefore, EST Policy should be transparently set up and broadly disseminated by other enable means throughout the country.

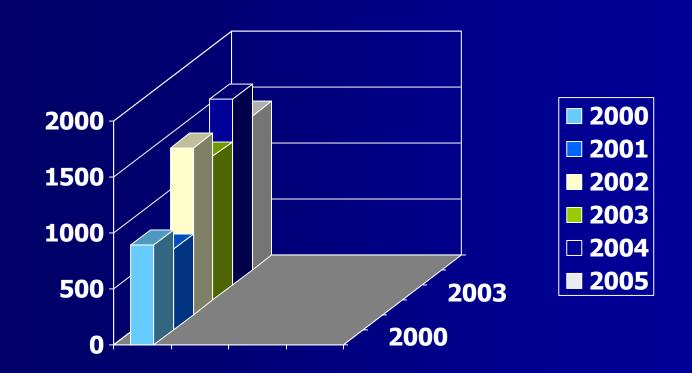
- a) Atmospheric Pollution
- Transport sector is identified a major source of atmospheric pollution, including ambient air pollution like industrial sector.
- The trend of imported vehicles (mostly second hand) and using is increased from year after year, including the consumption of some uncontrolled fuel oils.



Registered Motorcycles between 2000 and 2005, MPWT



Registered light vehicles between 2000 and 2005, MPWT



Registered heavy vehicles between 2000 and 2005, MPWT

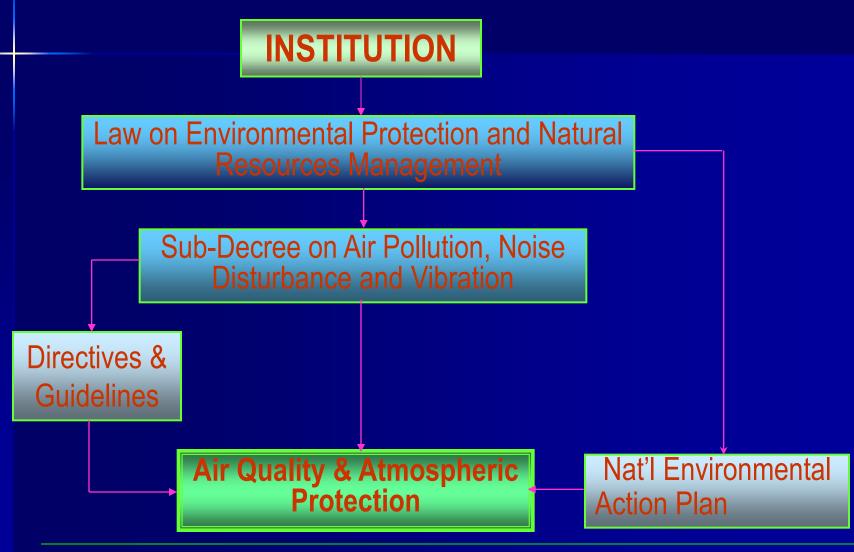
- Climate change, acid deposition, etc., is being considered and concerned in Cambodia and countries in the region resulted emission of pollutant smoke and/or releasing of pollutant substances into the atmosphere, which caused severe obstacles to the socio-economic development.
- Urban people are confronted to ambient air pollution in their daily living, that is a harmful effect to inhalation system. However, health impact caused by transport sector has not surveyed/studied yet.

b) Traffic Accidents

- The road network is rapidly improving, developing, and allowing speed increases, meanwhile an inadequacy of driving awareness that is a reason of traffic accidents.
- The happening of undesirable/worst events is recognized by the Royal Government, and appropriate countermeasures are being set up applied.

- What consequences will be happened during and after the worst event?
- Every day, 3 persons were died and more than 100 are injured. This <u>statistic</u> has increased double comparing to the last five years.
- The total economic loss resulted from road traffic accidents is estimated at 116 million US\$ annually (ADB).

3. Existing Legislation and Its Application



3. Existing Legislation and Its Application (cont.)

of Environmental have followed up to control ambient air quality in major areas of Phnom Penh Municipality and Siem Reap Province.



3. Existing Legislation and Its Application (cont.)



3. Existing Legislation and Its Application (cont.)

The results indicated that ambient air quality at sampling points still have a good condition comparing to the national standard.

4. Transport Development Policy and Action Plan

- The National Transport's policy is to ensure that the transport industry and infrastructure is properly managed and developed in full support of the Government's National Economic Development Plan.
- The development of transport sector cannot sustained, unless its strategy and action plan is integrated into other major sectoral development plan.

4. Transport Development Policy and Action Plan (cont.)

- Major action plans to achieve the transport development policy include as follows:
 - comfortable public transport
 - efficient urban infrastructures land use planning
 - use of efficient and non-polluting vehicles technology
 - road safety/maintenance, roadside air quality assessment, knowledge base
 - Reduction of fossil fuel consumption and emissions through efficiencies and demand management
 - Promotion of use of alternative and renewable energy

5. Road Safety and Its Application

- The goal of Cambodian road safety aims at:
 - Decreasing of death rate less than 10 persons per vehicles 10,000 units up to 2004;
 - Decreasing of death rate less than 05 persons per vehicles 10,000 units up to 2010; and
 - Decreasing of death rate less than 02 persons per vehicles 10,000 units up to 2020.

5. Road Safety and Its Application (cont.)

- To achieve road safety goals, many activities have been done:
 - Developing an accident reporting system
 - Costing of accidents
 - Developing an <u>school education</u>
 - Applying a driving training
 - Controlling a vehicle safety
 - Conducting a police training (first aid response)
 - Carrying out the public awareness campaign by other means
 - Separating the traffic systems
 - Developing and improving the partnerships with private and non-governmental organizations

6. EST Initial Step in Cambodia & Future Needs

- EST is still a new theme for Cambodia, although some activities have been done by responsible institutions.
- EST National Training Workshop was initially opened in Siem Reap of Cambodia, 26-28 June 2006.
- Representatives of government institutions, local authorities, academic institution and NGOs were attended this crucial training workshop.

6. EST Initial Step in Cambodia & Future Needs (cont.)

- The finding of the workshop provided:
 - Concept of revitalizing of the National EST WG.
 - Understanding on the roles of respective line Ministry/Agency in the formulation and application of National EST Strategy.
 - Improving of interagency coordination and/or cooperation in addressing environment & transport issues.
 - Identification of key concerns/priority areas to be addressed in the National EST Strategy.

6. EST Initial Step in Cambodia & Future Needs (cont.)

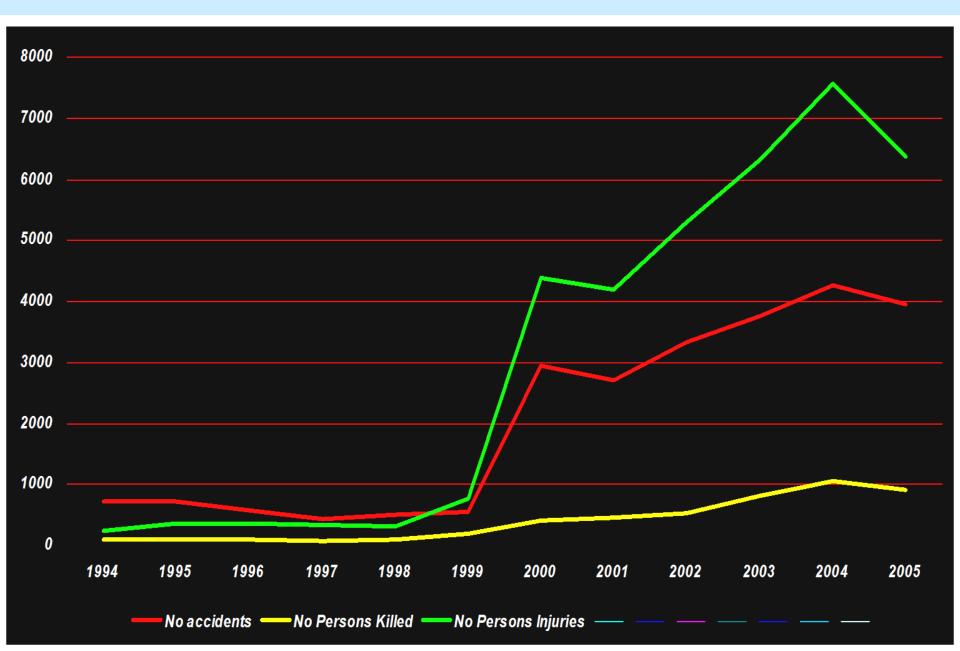
To strengthen and promote the application of EST in an effective way, Cambodia still firmly require technical assistances from UNCRD, Government of Japan, International organization and other donors.



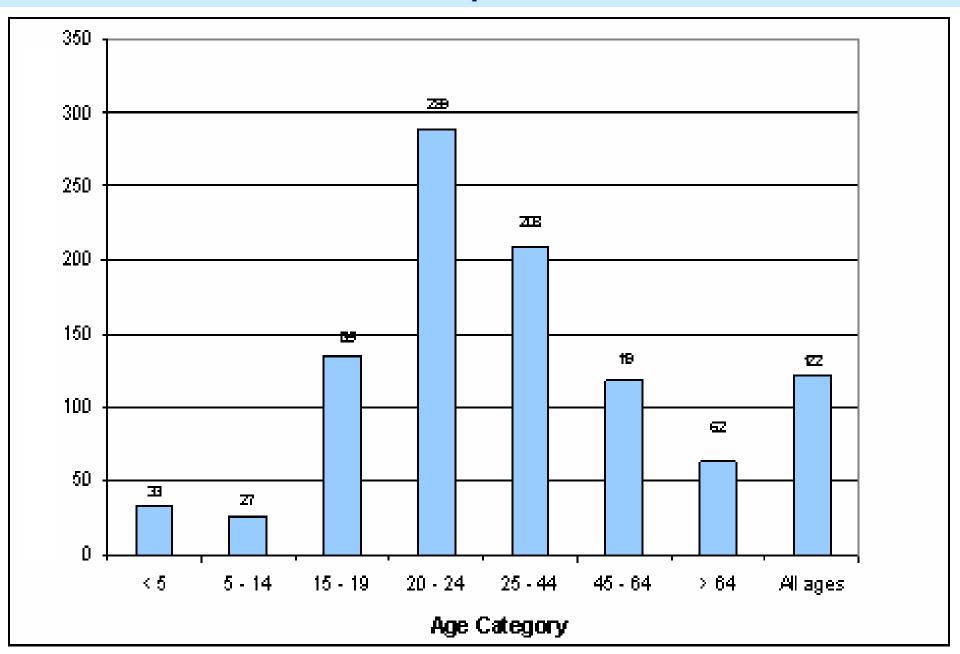
Traffic Accident



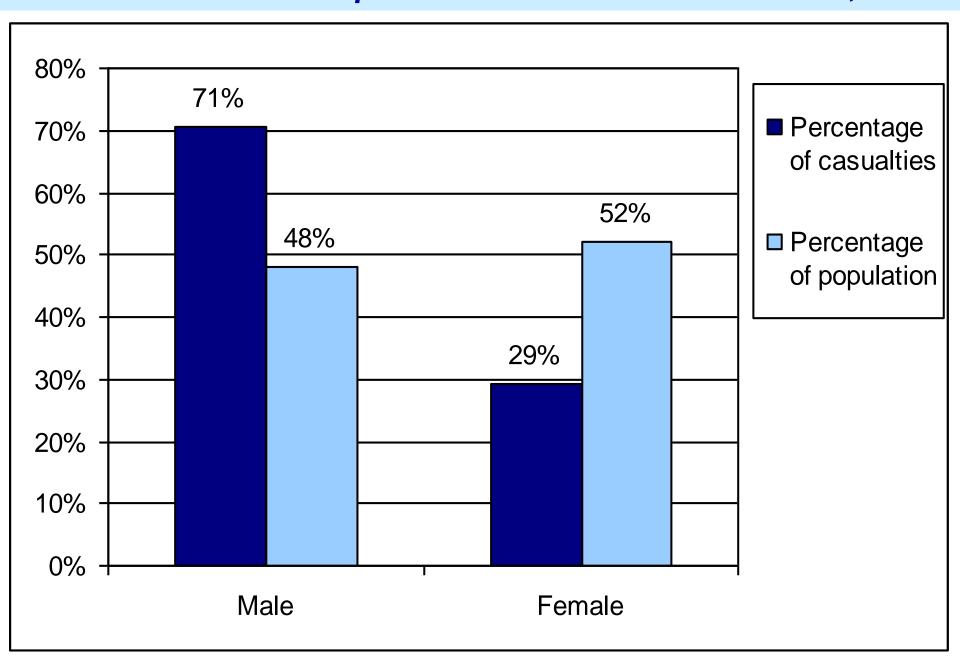
Statistics of Road Traffic Accidents



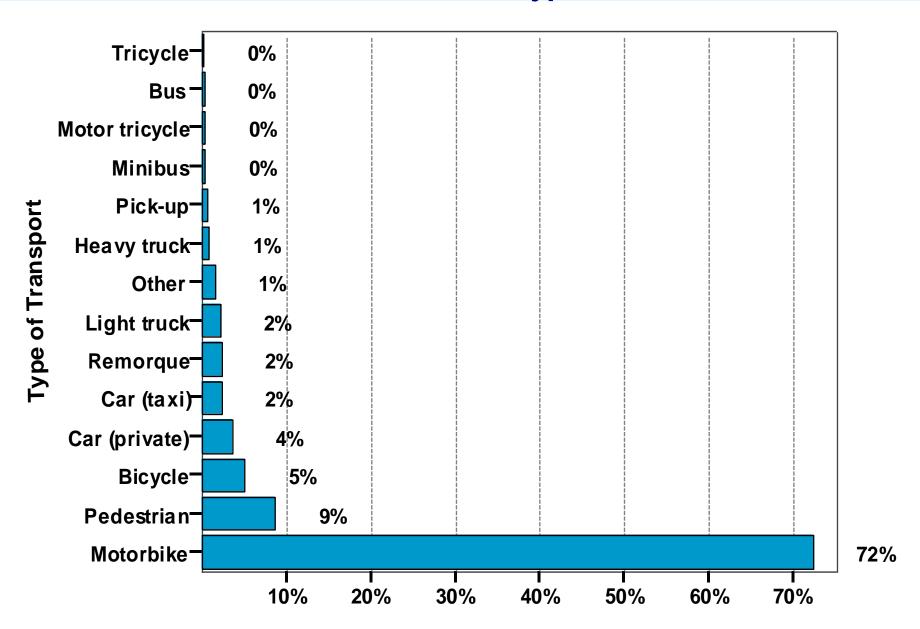
Number of Casualties per 100,000 inhabitants



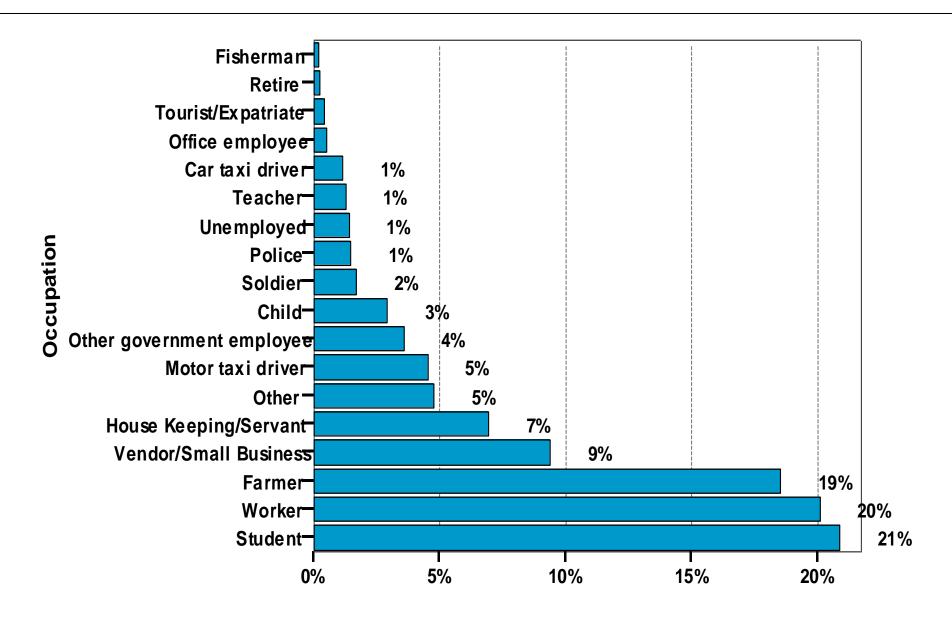
Traffic Casualties Comparison between Male and Female, 2005



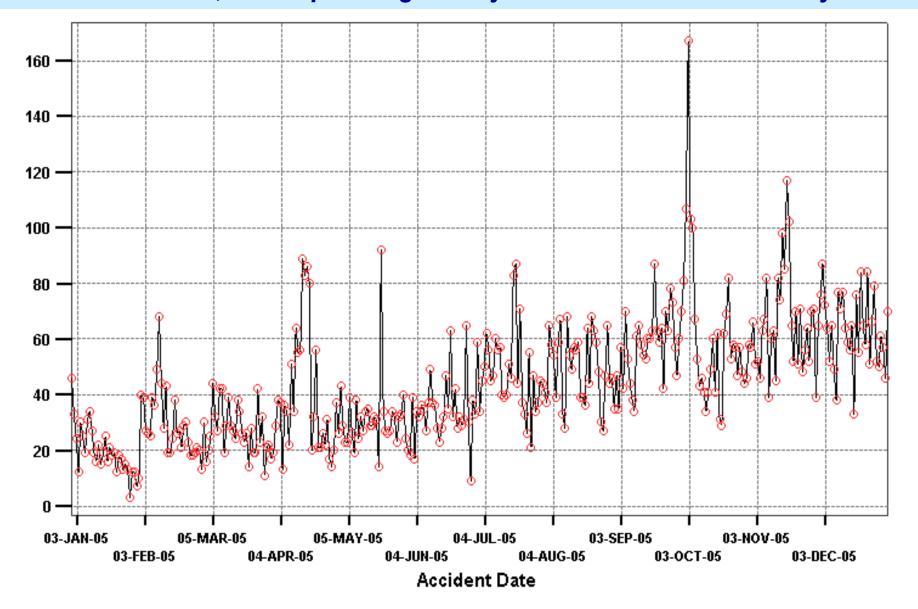
Different Level of Casualties' Types in Cambodia, 2005



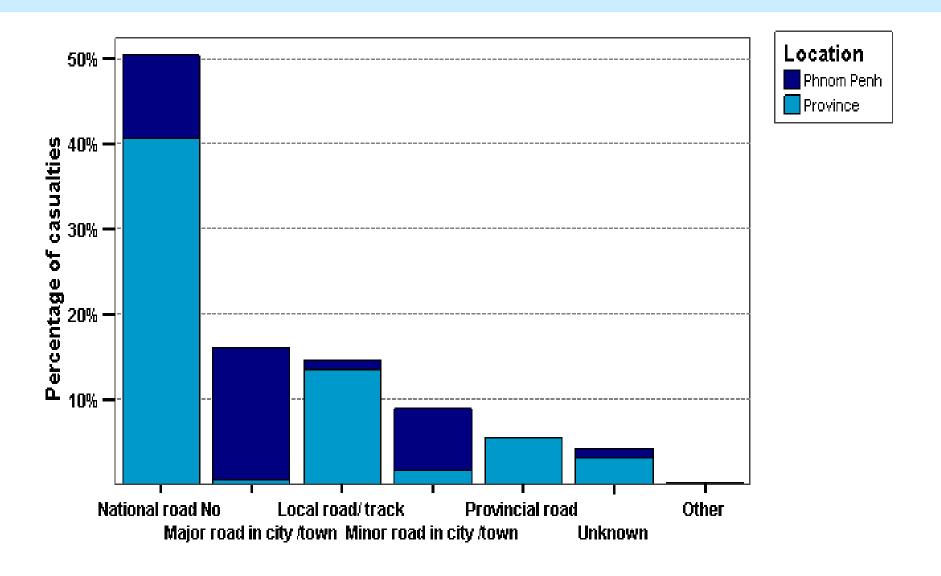
Percentage of People Casualties in Traffic Accidents, 2005



Number of Casualties Count: Several peaks (up to 150 casualties a day) are noticed, corresponding mainly to Khmer national holidays



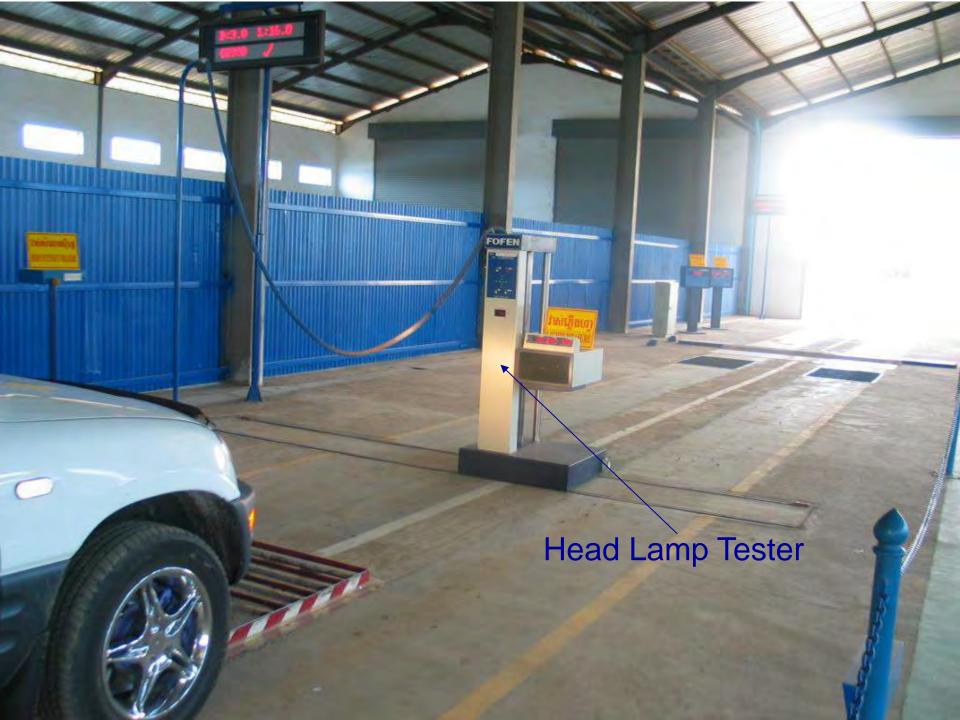
Location of Accidents: 50% of casualties are injured in accidents occurring on national/provincial roads



Vehicle Checking









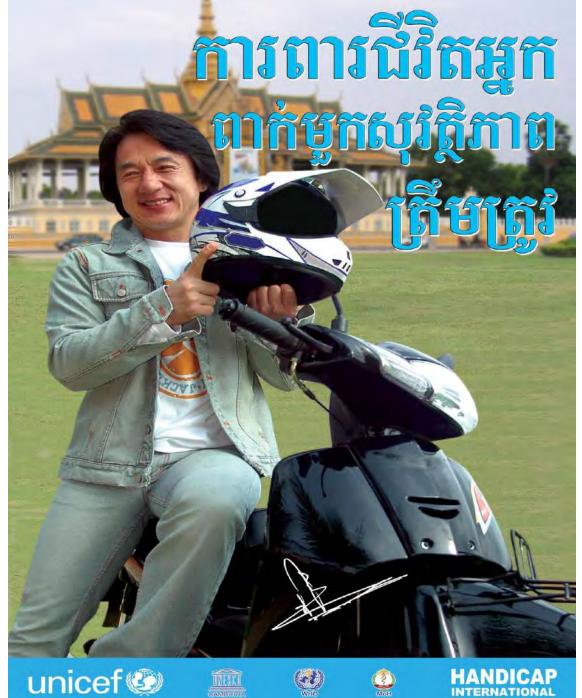
School Education





















National EST Policy Dialoguecum-Training Workshop in Siem Reap, Cambodia

19-21 June, 2006













