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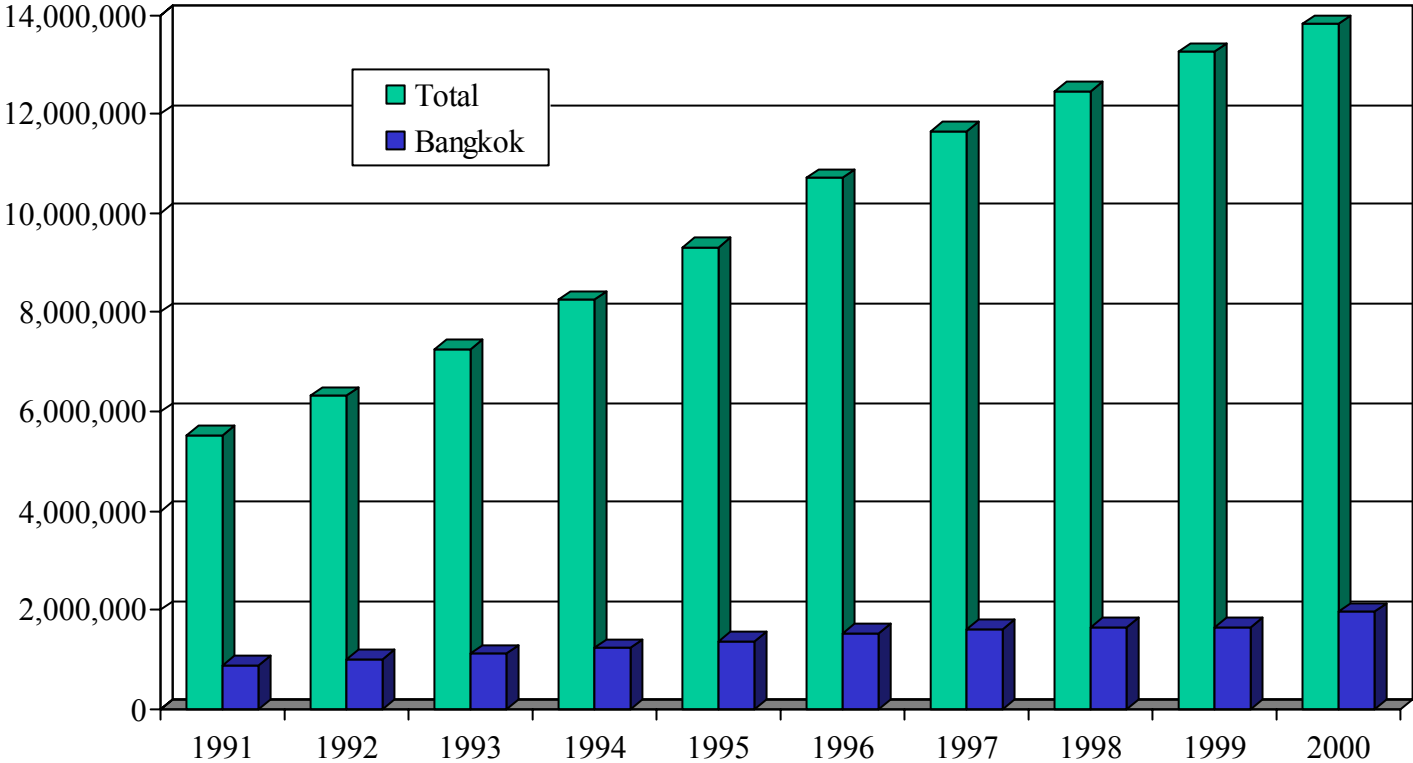
Inspection & Maintenance for Motorcycles

Regional Workshop

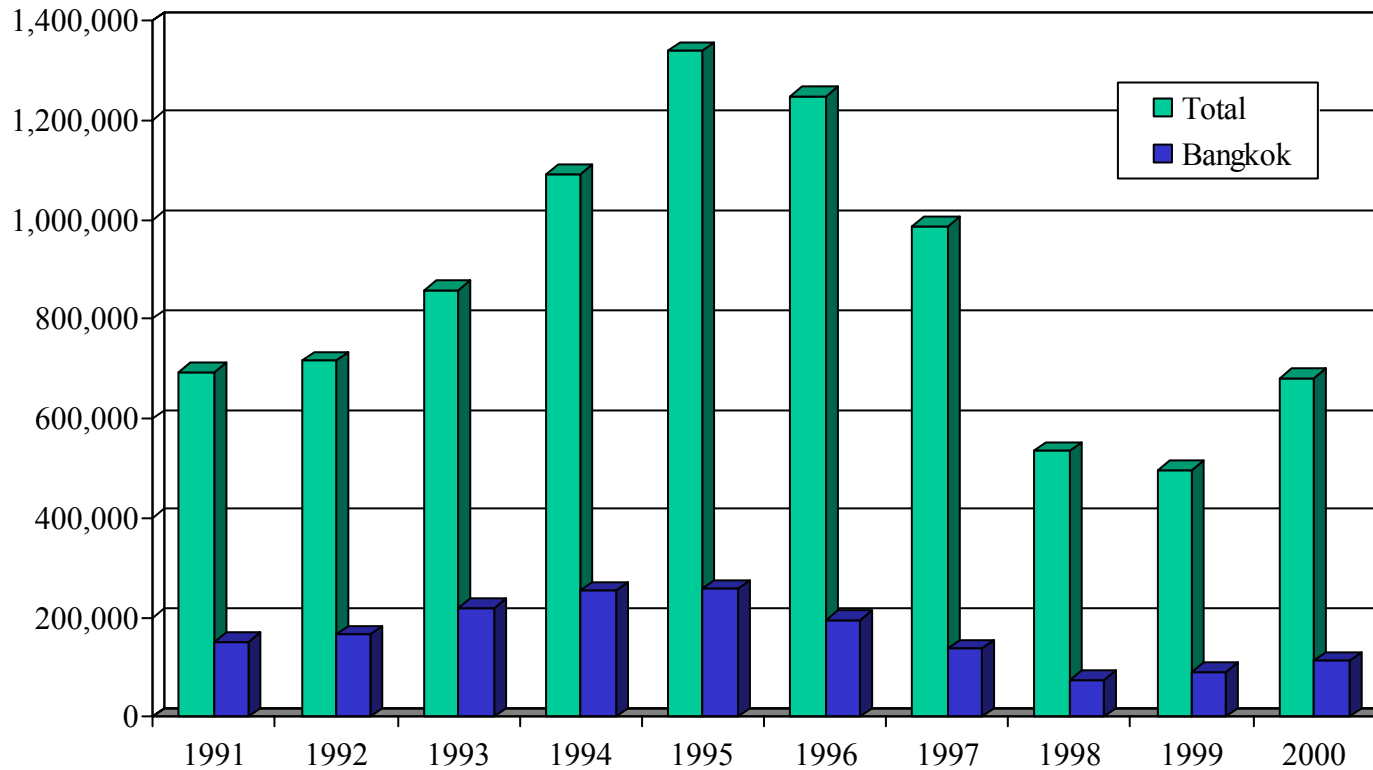
Strengthening Inspection and Maintenance

Chongqing, PRC, 7-9 November 2001

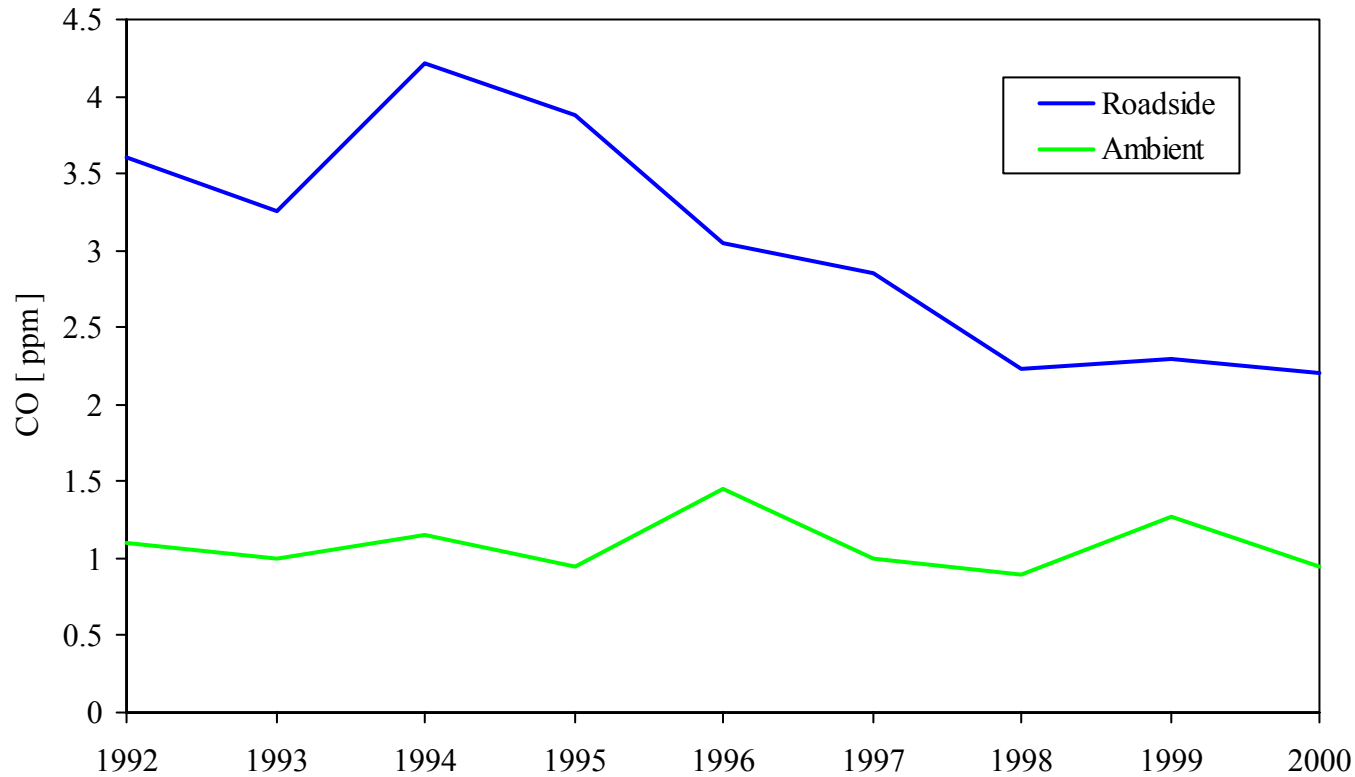
Number of Motorcycles Registered in Thailand



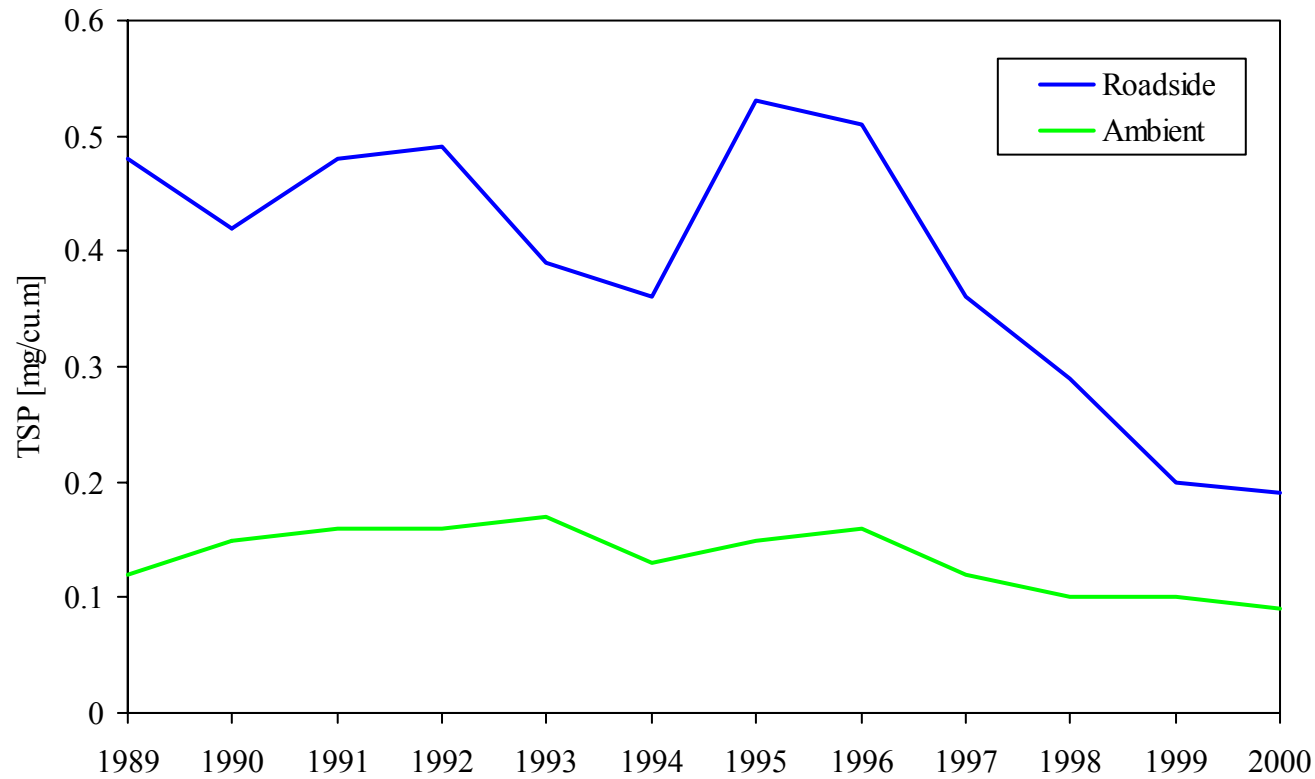
Number of New Motorcycles Registered



CO in Ambient in Bangkok



TSP in Ambient in Bangkok



Measures to Control Emission from Motorcycle

- Emission standards for new motorcycle
- Emission standards for in-use motorcycle
- Low smoke lube oil
- Fuel reformulation

Emission Standards for New Motorcycle

Level	CO	HC	HC + NO_x	Enforced
1	16-50 g/km	7-15 g/km	-	10 Aug 1993
2	12.8-35 g/km	4.2-12 g/km	-	15 Mar 1995
3	13.0 g/km	5.0 g/km	-	1 Jul 1997
4	4.5 g/km	-	3.0 g/km	30 Jul 2001
5	3.5 g/km	-	2.0 g/km	2003

Emission Standards for In-use Motorcycle

- CO shall not exceed 4.5 %
- HC shall not exceed 10 000 ppm
- Noise shall not exceed 100 dB(A)
- White smoke shall not exceed 30 % (2T only)

Motorcycle Inspection

- Private Vehicle Inspection Stations : 751 Stations
- First renewal inspection : 5 Years
- Interval of inspection : 1 Year
- Inspection fee for motorcycle : 60 Bath (1.5 USD.)
- In case of a vehicle failed, half of inspection fee shall be paid if the re-inspection is done within 15 days after the first inspection

Private Vehicle Inspection Stations

- 1994 Bangkok
- 1997 5 Provinces (vicinity of Bangkok)
- 1999 6 Provinces
- 2000 11 Provinces
- 2002 53 Provinces (whole country)

Promotion for Reducing Vehicle Emission

- Campaign against vehicle emission
- Exhaust emission and noise measurement
- Engine tune-up service
- Vehicle inspection service
- Exhibition of emission from vehicles

Promotion for Reducing Vehicle Emission (2)

- Duration : 2 weeks
- Numbers of vehicle : 3832 (average)
- Numbers of motorcycle : 49 % of vehicles
- Failed motorcycle : 15 % of motorcycle
- Passed after service : 35 % of failed motorcycle

Engine Tune-up Service

- Air filter : Clean or change
- Spark plug : Clean or change
- Lube oil : Change
- Carburetor : Check and adjust
- Minor repair items

Future Policies for Controlling Emission from Motorcycles

- Reduce age of Motorcycle to be inspected
- Tightening emission control for in-use motorcycles
- More stringent emission standards for new motorcycles
- Renewable energy

Thank you for your attention

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