

Environment-Friendly Traffic Policies in Seoul

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1. Seoul at a Glance

- Hi Seoul, Soul of Asia
- □ Capital of the Republic of Korea with 600 years of history
- ☐ Area : 605.6 km²
- ☐ Population: 10.3 M
- ☐ Internet Penetration Rate: 100%
- ☐ World No. 1 e-government
- ☐ Host of 1988 Summer Olympics,2002 World Cup



A Clean and Attractive Global City





2. Traffic Conditions & Policies

- Traffic Conditions
- □ Vehicles : 2,857 thousands (Passenger Cars 2,140 thousands)
- **☐** Subway : 8 lines, 286.7 km
- ☐ Bus : 402 routes, 7,792 buses
- ☐ **Road**: **8,067km** (Road Ratio 21.8%)
- ☐ Cyclist Way : 648.8 km
- **☐** Mode Share (%)

Subway	Bus	Cars	Taxi	Others
35.0	27.8	26.1	6.3	4.8





2. Traffic Conditions & Policies

Key Environment-Friendly Traffic Policies

Promotion of Public Transport

- Extension of Subways & Service Improvement
- Reform of Public Transport System (Integrated Transfer, BMS, Routes Reorganization)
- Exclusive Bus Lane

Reduction of Traffic Volume

- Weekly No Driving Day, TDM for Enterprises
- Congestion Charge, Parking Demand Management

Expansion of Green Transport

- Expansion of Cyclists and Cyclist Ways
- Pedestrian-First Policy, Car Free Ways

Reduction of Vehicle Emission

- Low Emission Vehicle (Hybrid, CNG Vehicle)
- Retrofitting or Remodeling to LPG Engine of in-use Diesel Vehicles
- Diffusion of Cleaner Fuel (Bio-Diesel, Natural Gas)

2. Traffic Conditions & Policies

- Reform of Bus System
- □ Reorganization of Bus Routes
 - 4 Types : Trunk (Blue), Feeder (Green) Circular (Yellow), Wide area (Red)
- □ Semi-Public Operation System
- Route Bidding System, Jointed Revenue Management
- □ Integrated Transfer Fare System
- Bus to Subway Transfer, Free or Discounted Transfer (5 times)
- ☐ IT-based High-tech Management
 - BMS with GPS, Smart Card (T-money)
- ☐ Extension of the Exclusive Median Bus Lane



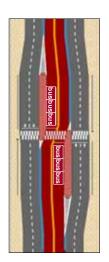


3. Exclusive Median Bus Lane

- What is the Exclusive Median Bus Lane?
 - □ Buses run the median lanes of roadways.
 - Bus stops also locate in the middle of roadways.
 - □ Other vehicles are not allowed to use MBL

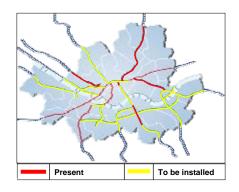


Improvement of Bus Services & Public Transport System



3. Exclusive Median Bus Lane

- Running MBL
- ☐ Introduction in 1996, Extension in 2004
- ☐ 7 Routes, 67.9 km
- ☐ To be extended to 12 routes, 117.6 km (by 2010)



Exclusive Curbside Bus Lane

- 66 routes, 209 km (since 1985)

3. Exclusive Median Bus Lane

- Effects of MBL (1)
- Punctual
 - Arrival Time Deviation±1~2 min
- Rapid
 - Speed Up 18~82%
- Safe
 - Accident Decrease 13.6%





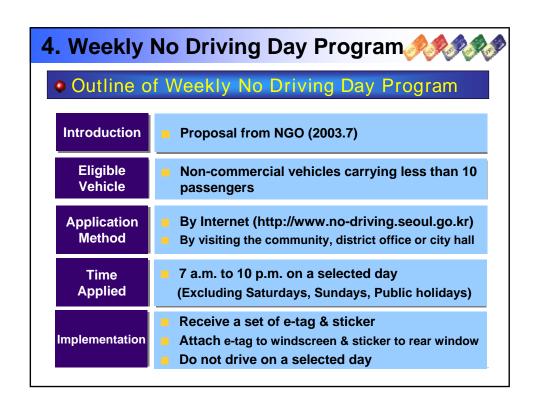
3. Exclusive Median Bus Lane

- Effects of MBL (2)
- **□** Comfort
 - Passengers Increase 15~38%
- **□** Environment-Friendly
 - Emission Reduction (Diesel Bus to CNG Bus)



Promotion of Environment-Friendly Transport





4. Weekly No Driving Day Program



Incentives for Participants

☐ By Public Organization

- 5% Reduction in Auto Tax
- 50% Discount on Congestion charge
- 10~20% Discount on Public parking fees



□ By Private Sector

- 1~6 cents/L Discount on Gasoline price
- 10% Discount on Car maintenance cost
- Free or Discount on Car washes





4. Weekly No Driving Day Program



- Participants with e-tag
 - ☐ Participant Cars with e-tag (2006)
 - 653 thousands (Participant Rate: 30%)
 - □ Participants by day

(Unit: thousands)

Total	Mon	Tue	Wed	Thu	Fri
653	172	148	145	99	89
(%)	(26.3)	(22.7)	(15.2)	(15.2)	(13.6)

4. Weekly No Driving Day Program



- Expected Effects
 - 1 million cars participating...
 - 3.7% Decrease in traffic volume
 - 3% Increase in operating speed
 - 10% Reduction of emission
 - 3.5μg/m³ Reduction of PM₁₀
 - 50 m US\$ annual savings in fuel costs



Air Quality Improvement & Clean City





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