



Urban Transportation in Nepal

Moving towards sustainable transportation in cities

Girija Prasad Gorkhaly

Joint Secretary, Ministry of Urban Development,
Government of Nepal

Introducing Nepal

Nepal

- 147,181 sq km;
- 26.6 million population
- Urban population: 17% (municipal)
- Estimated urban population: 24% with 6% growth rate
- Kathmandu Valley is the most populated urban centre of Nepal- >50% urban population of the country



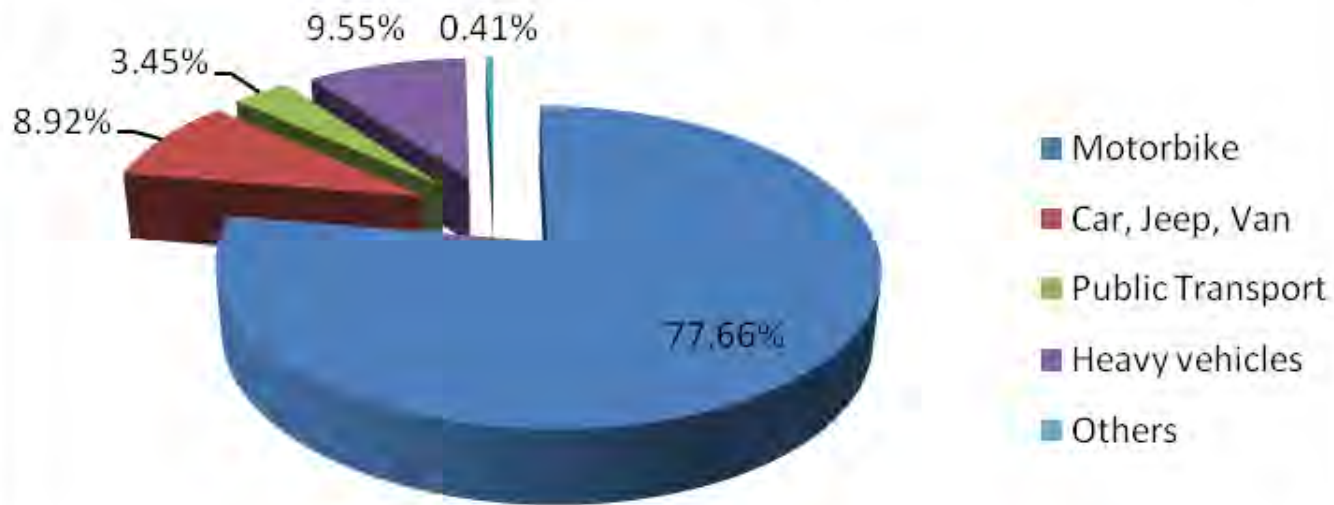
- Primary mode of transportation in Nepal is road and air transport apart from on foot.
- Government is mainly focused on national roads and transportation system
- With the fast urbanisation - huge demand for urban road and infrastructures.

Overview

- Mixed traffic: every traffic in all direction.
- Limited infrastructures,
- Traffic jams especially at cross-roads,
- Air pollution
- Road safety
- Local government is finding difficulties to look after transport works,

Current situation

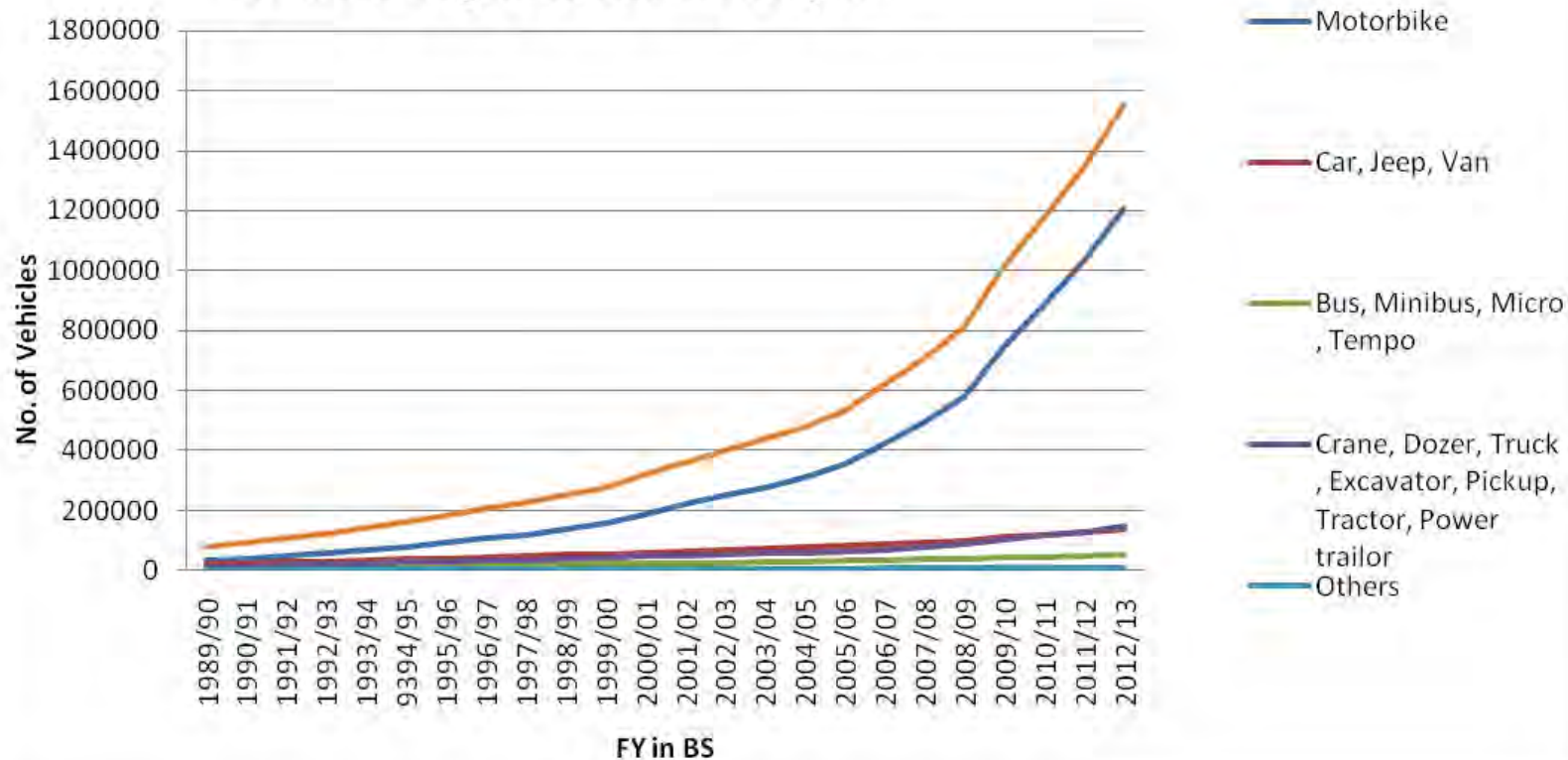
Distribution of vehicles in Nepal according to type



By 2012/13: total vehicle registration is 1,555,000

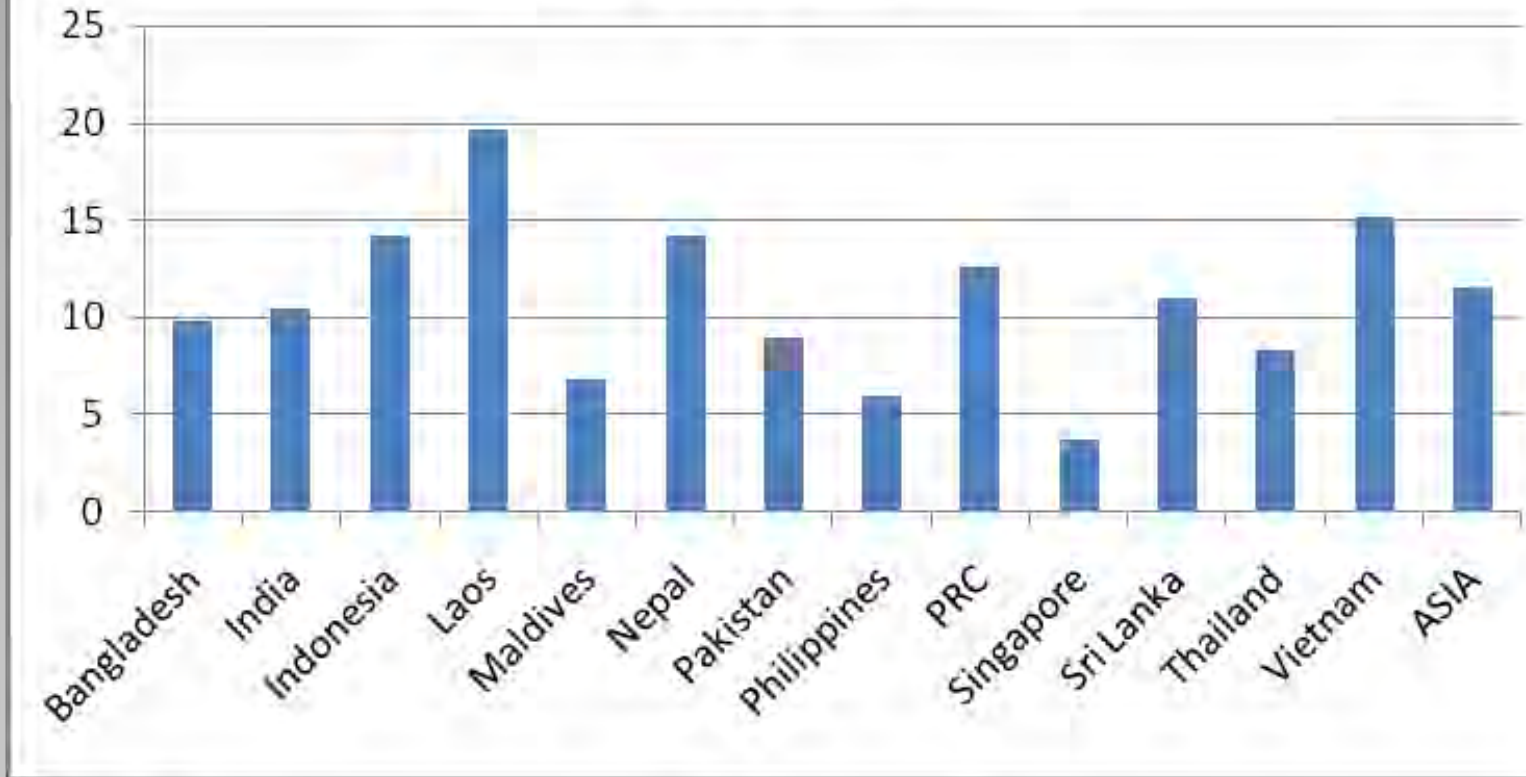
Vehicle registration in Nepal

Vehicle registration in Nepal



Vehicle population rise

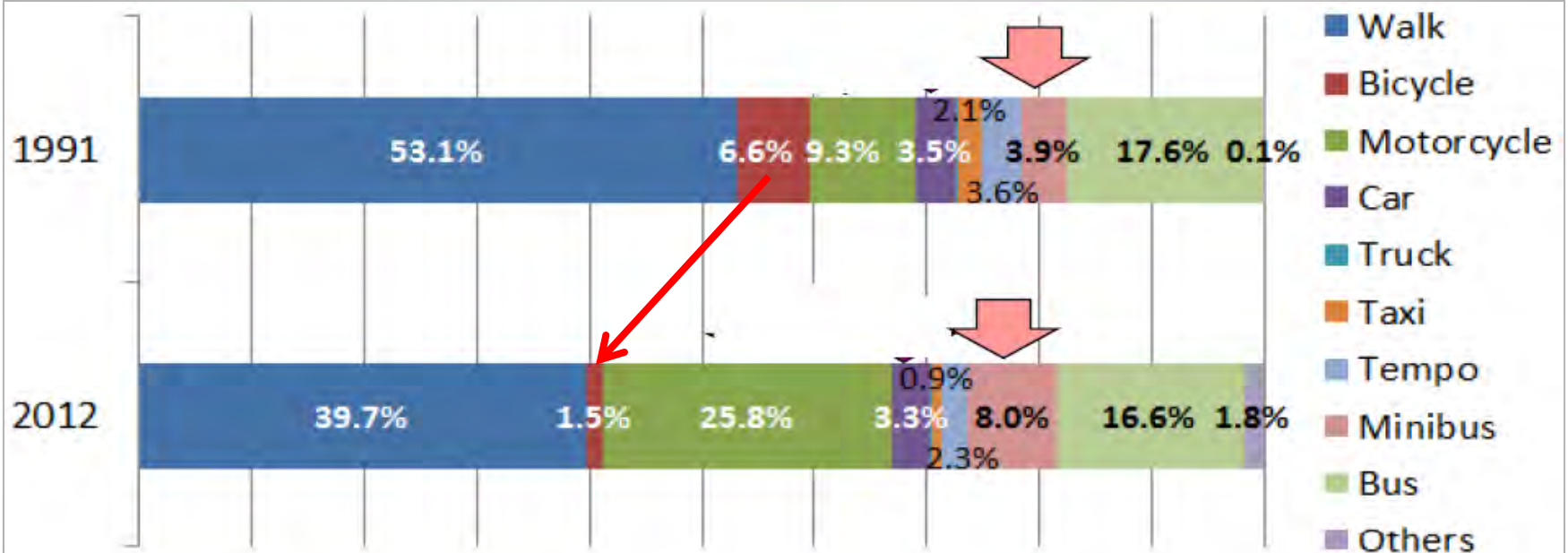
Vehicle growth rate



Annual growth rate of vehicles

In Kathmandu

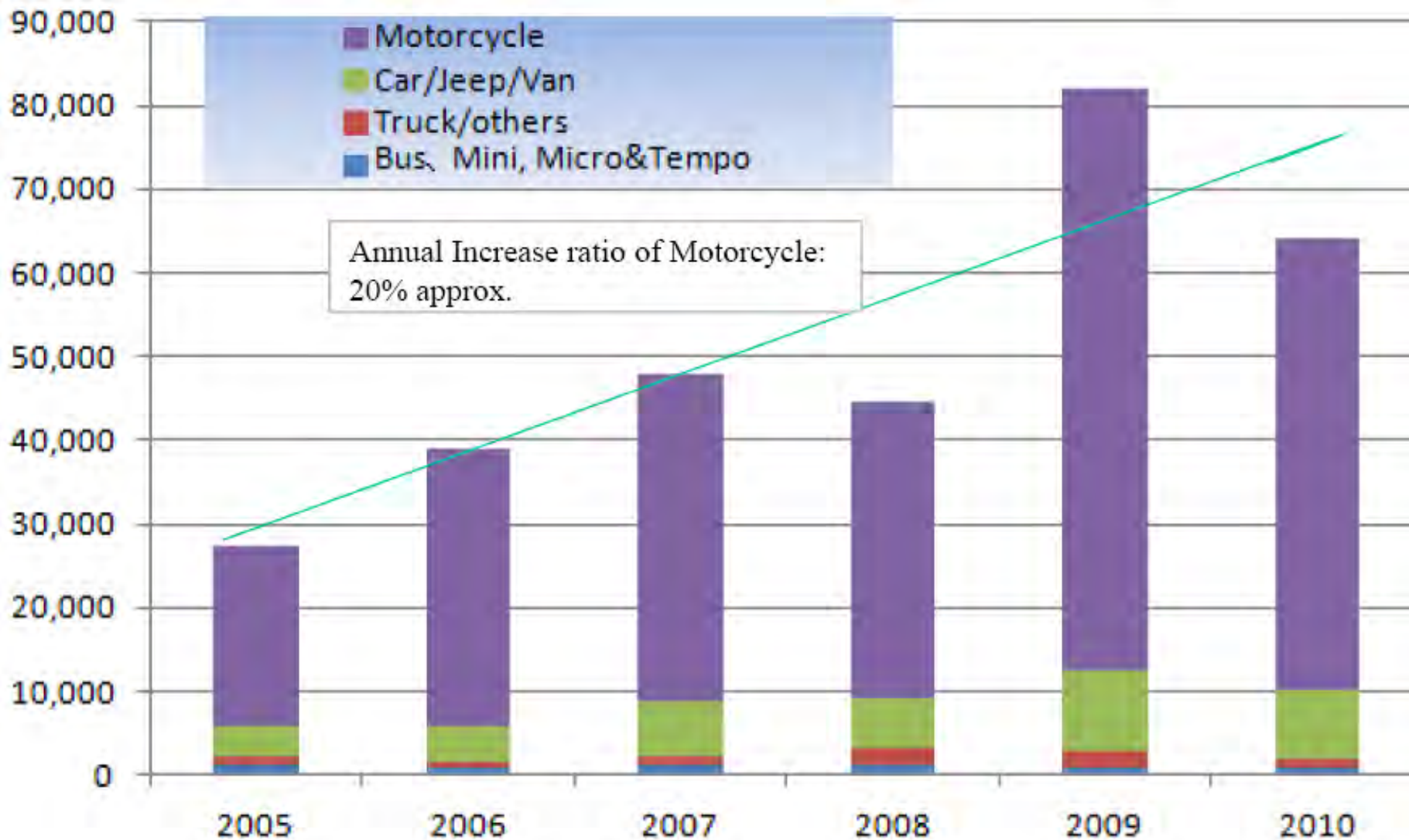
- Walking has gone down by 25%
- Cycling has gone down to less than 1/4th
- Motorcycle has increased by almost 3 times
- Car & public transport has not changed much



Shift in Modal Share (Kath. valley)

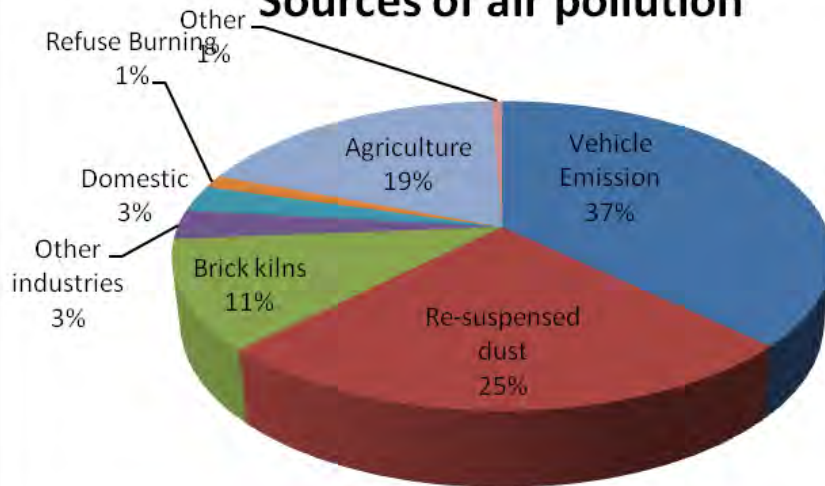
Source: JICA, 2012

Growth of vehicles registered in Bagmati

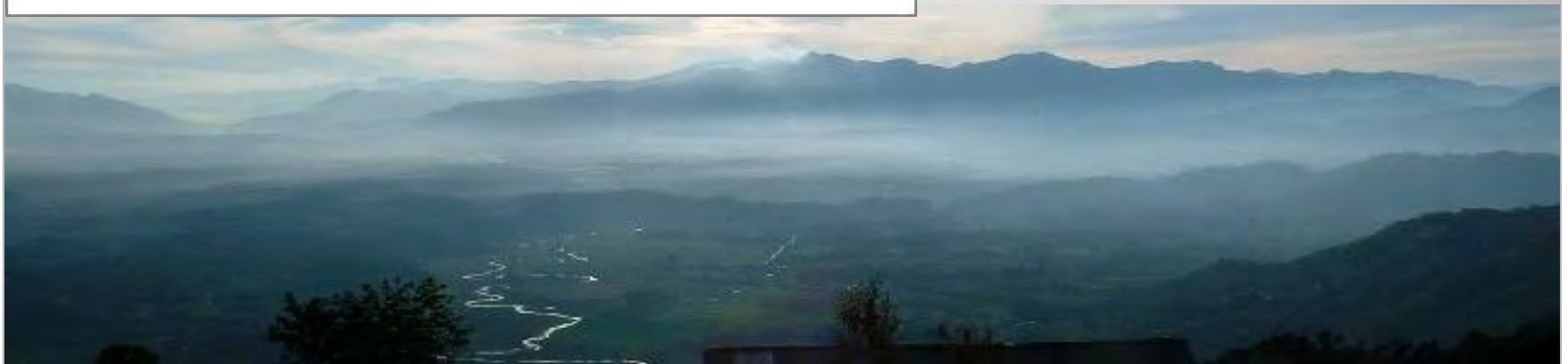


Source: JICA, 2012 based on DOTM records

Sources of air pollution



- KTM Valley is vulnerable to air pollution
 - Natural causes – topography, altitude, climate
 - Man-made cause
- Main concern is fine particles
- MOEST, 2005: 1600 premature deaths per year



Air Quality in Kathmandu

Transport related works are looked after by:

- Department of Transport Management
- Department of Roads- mainly strategic roads
- Department of Railway (new)
 - Municipalities

No separate institute looking after urban transportation system

Ministry of Urban Development-

- **Urban Roads Section.**

Institutions



PRESENT SITUATION: poor road habits



Photo courtesy: Krishna Thapa

Traffic congestion is everyday ordeal in Kathmandu Valley

Chaotic road traffic



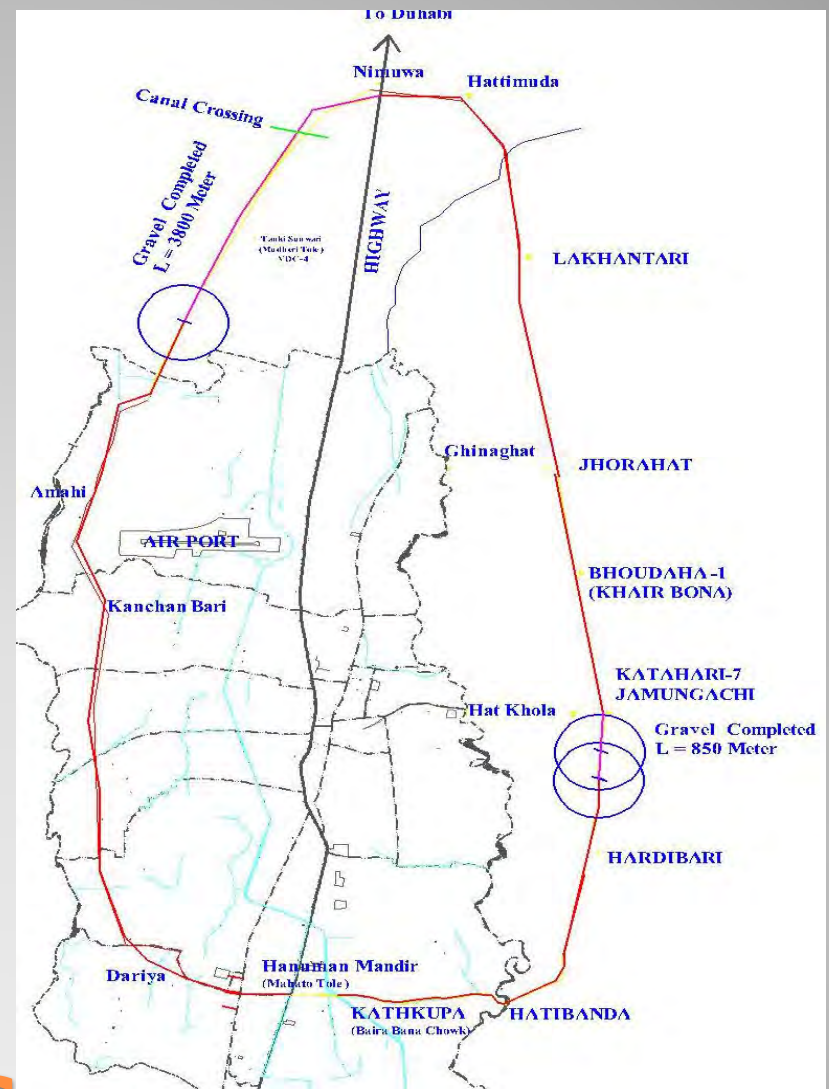
**PRESENT SITUATION:
NMT unfriendly practices**



- Coordinating land-use and transport,
- Junction planning and regulation,
- Public transport infrastructure provisions
- Promoting none-motorized transport
- Promoting organised private sector in urban transportation
- Develop urban road standards, manuals
- Develop city-wide urban transportation

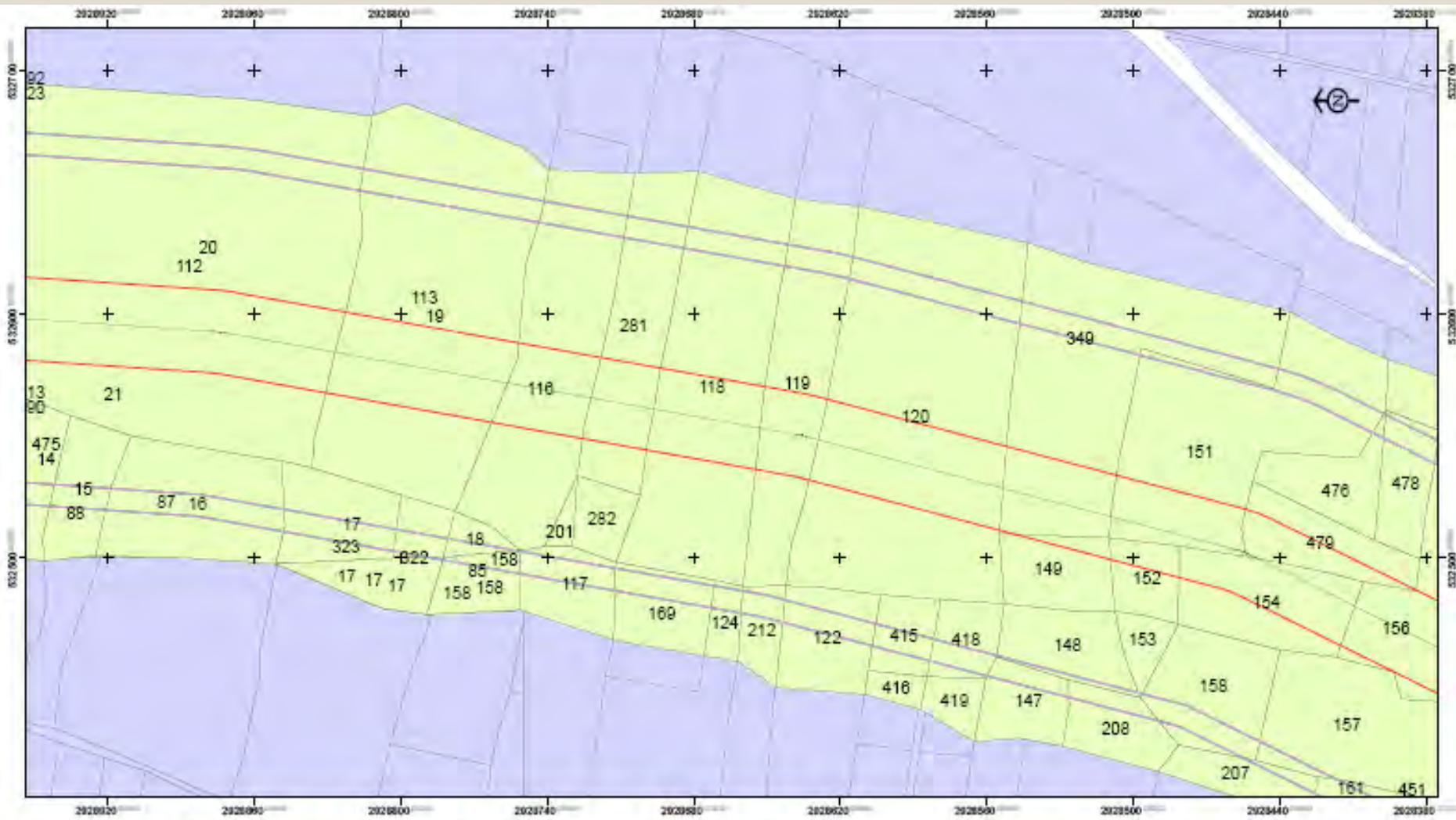
ISSUES / CHALLENGES

- Integrating road and land use –
 - Biratnagar Ring-road (42 Km.)



Some initiatives





Legend

Administrative Boundary

- District
- National
- VDC/Municipality

Parcel

- Forest
- Government
- Institutional
- Private

Planned Roads

- 34m. Ring Road
- 9m. Road

CADASTRAL OVERLAY MAP

Preparation of Ring Road in Biratnagar Phase- III



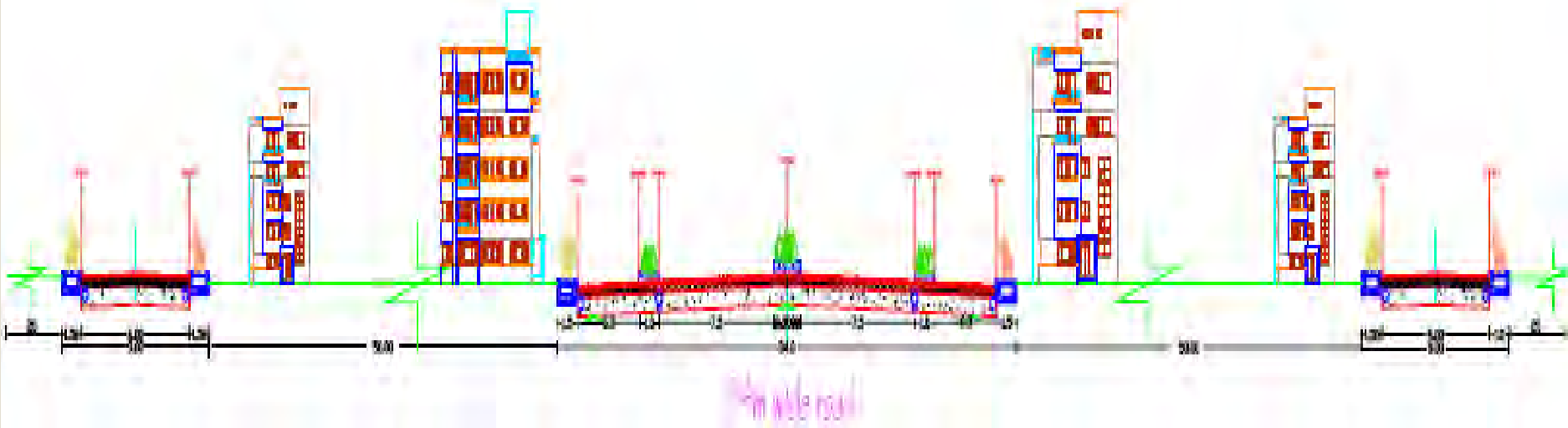
Government of Nepal
Ministry of Physical Planning and Works
Department of Urban Development and Building Construction



CEMECA Consultant Pvt. Ltd.
G. P.O. Box: 11695, Thapa Gaon, Kathmandu, Nepal
Tel: 977-1-4464544,
Email: info@cemeca.com.np



1:1,500



ROW of Ring Road 34m

- Improve public transport –
 - route restructuring,
 - franchising of PT operators,
 - PT infrastructure
- Increase road capacity by - 36 intersection, 22 traffic signals, 6 mid-block signalised pedestrian crossings, CCTV cameras, enforce rules
- Develop parking policy, develop multi-story parking through PPP and support city core pedestrianization
- Support walkable community - Pedestrianisation
- Capacity building of key agencies involved in the delivery of expected project outcomes

Project is trying to reduce travel demand?



Promoting cycling culture on the occasion of International Day of the Girl Child



Promoting NMT

- JICA is supporting Transportation Management Plan of Kathmandu Valley
- Land readjustment practice,
- Infrastructure cost sharing by different level of Governments in Japan,
- Institutionalising Urban Transport Section in Department of Urban development and Building Construction.

AREAS OF COLLABORATION WITH JAPAN

Thank you