

2020 and Beyond: The Green Economy Transition for Transport in Asia and the Pacific



United Nations
Centre for Regional Development

6th Regional EST Forum in Asia

Delhi, India

Lloyd Wright

4 December 2011



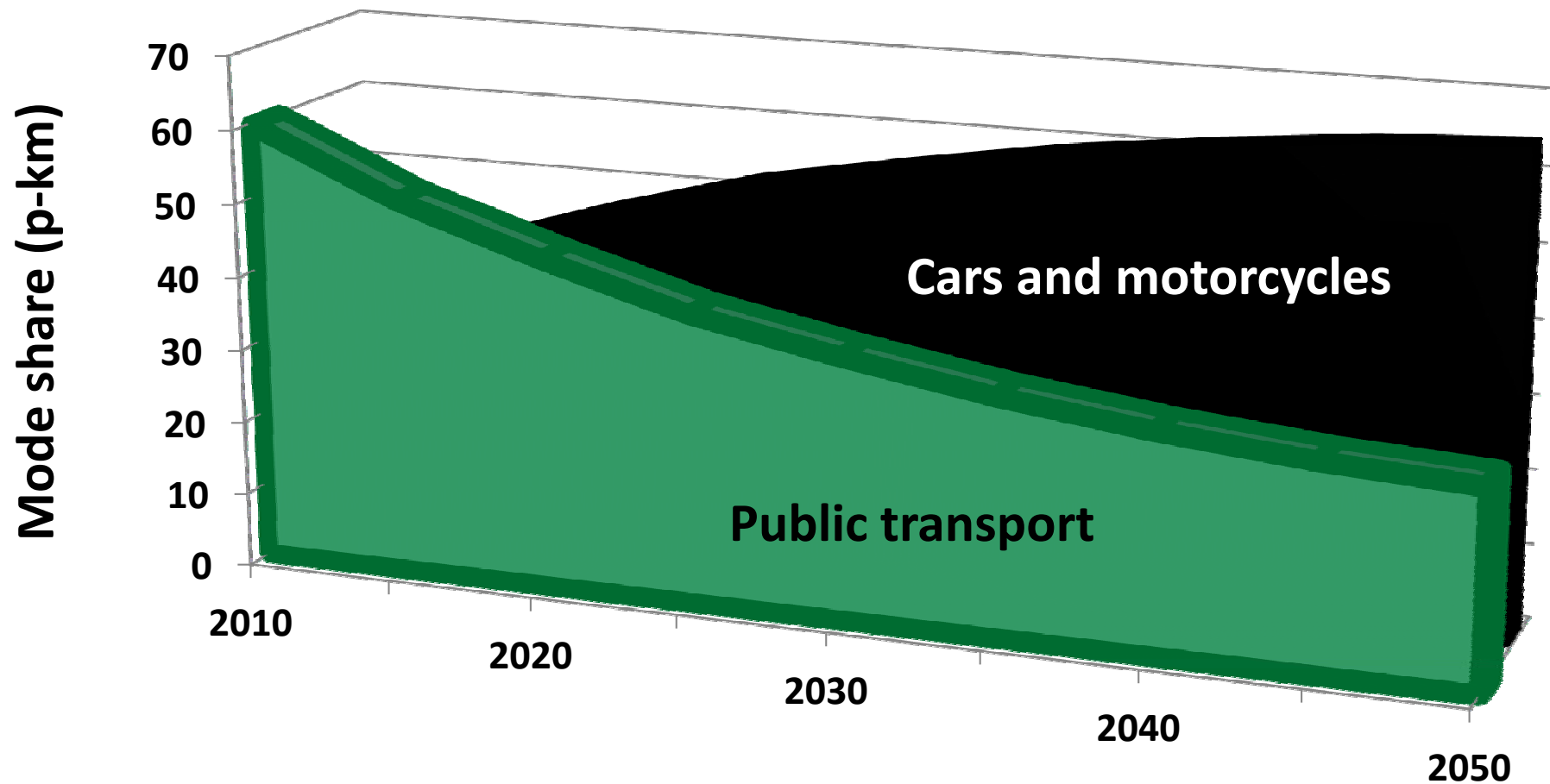
Asia-Pacific transport beyond 2020

"Those who have knowledge, don't predict. Those who predict, don't have knowledge."

Lao Tzu, philosopher, 6th century BC

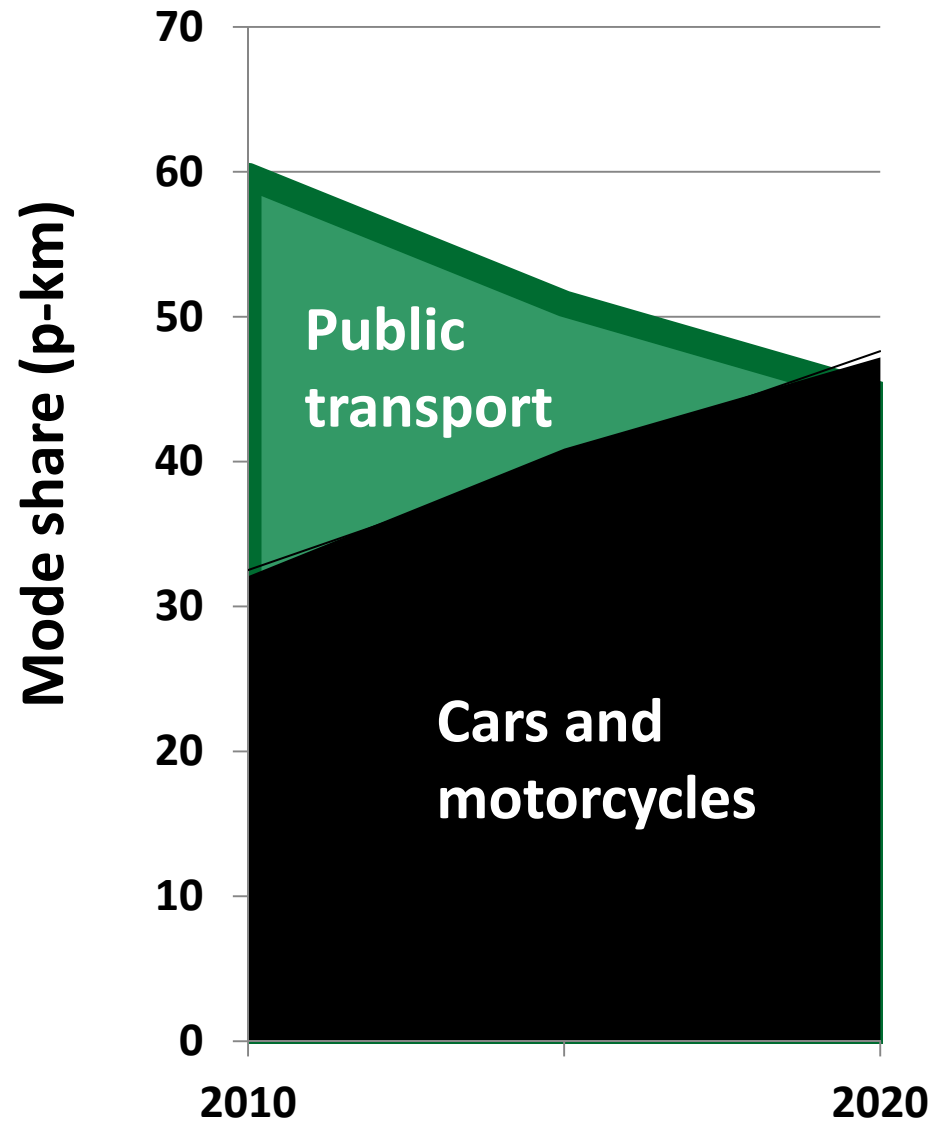


Business-as-usual projections to 2050



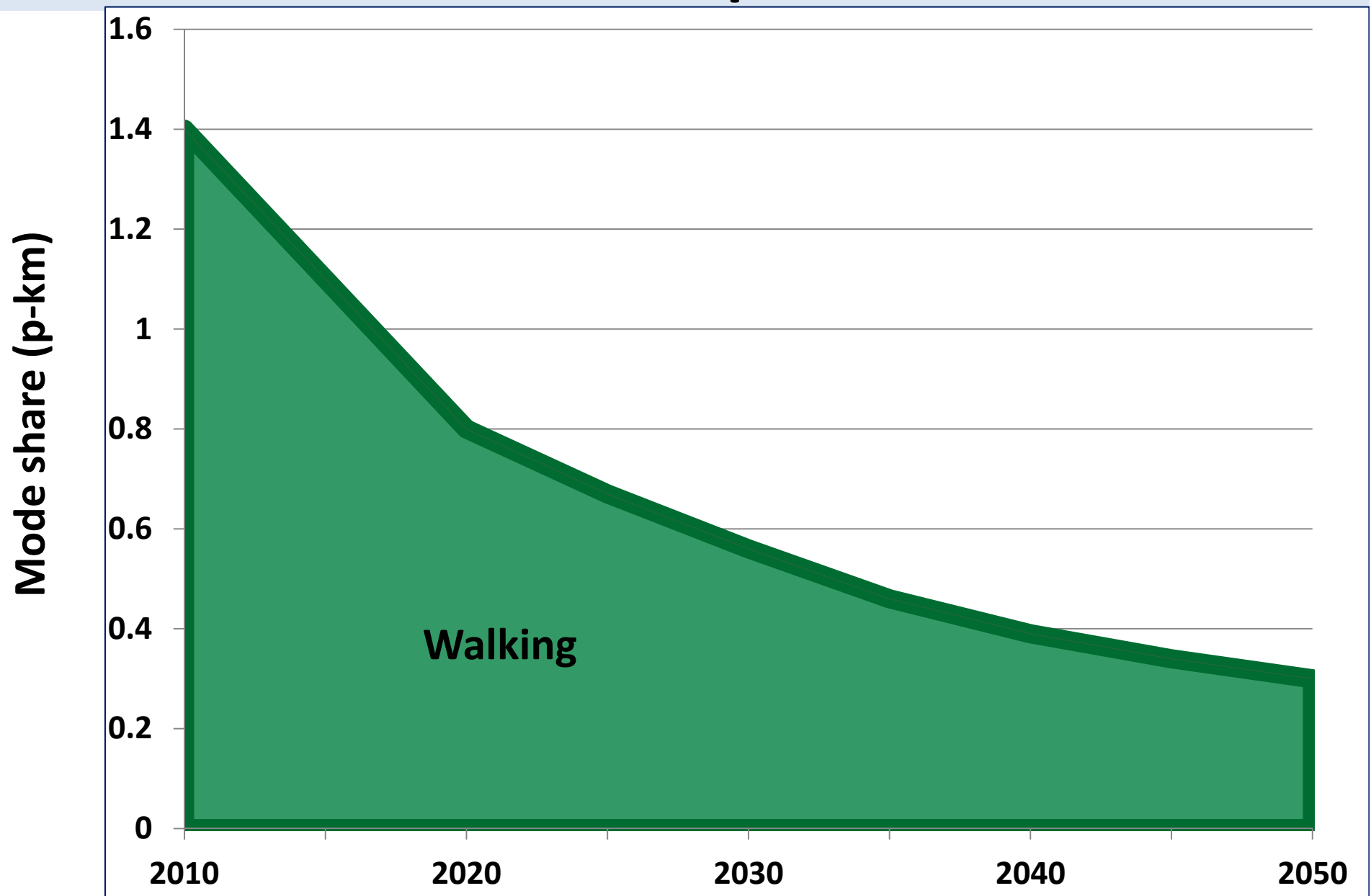
Source: ADB and IEA, 2011

Lag times



**The trend for
the next 5 to 8
years is fixed**

Mode share of pedestrians



Source: ADB and IEA, 2011

Walking conditions



Expenditures to 2050 in Asia and the Pacific

Category	2050 Amount (US\$)
Infrastructure	\$59 trillion
Vehicles	\$162 trillion
Fuels	\$52 trillion
Operations & maintenance	\$3 trillion
Total \$276 trillion	



Source: ADB and IEA, 2011

How do we
scale up?



Tipping points: Bus Rapid Transit



New York bus lane
Paris bus lane

Curitiba

Sao Paulo
Goiania
Pittsburgh

Quito
Leeds

Bogota TransMilenio
Brisbane
Rouen

1963

1974

1975

1996

2000

2005

Approximately 46 systems world-wide

2011

Approximately 104 systems world-wide



Tipping points: Bicycle sharing systems



**Amsterdam
White Bike**

**La Rochelle
Yellow Bike**

**Copenhagen
City Bike**

**Paris Veleb
Lyon Velo'v**

1965

1974

1995

2005

2009

Approximately 78 systems world-wide

2011

Approximately 247 systems world-wide



Future tipping point?: Urban space regeneration



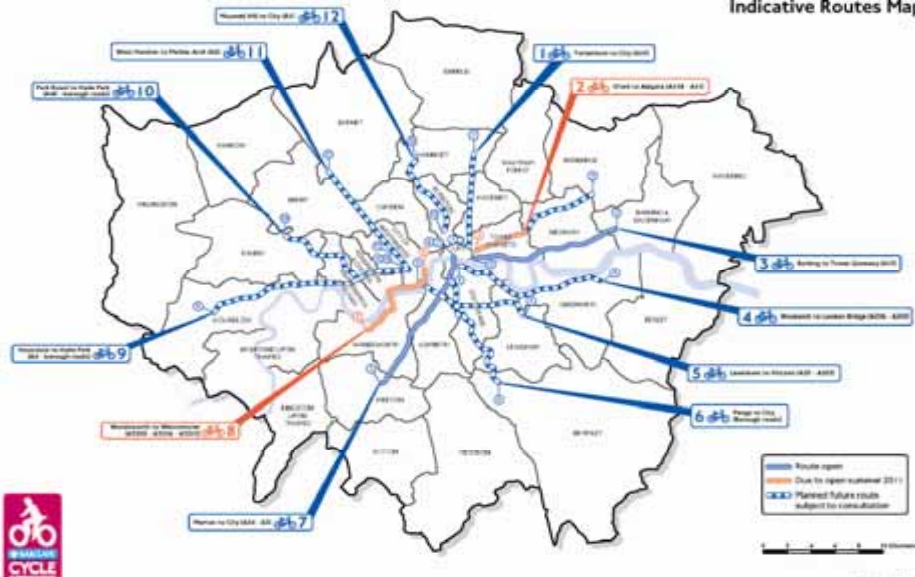
Seoul



Guangzhou

Future tipping points?

Barclays Cycle Superhighways
Indicative Routes Map

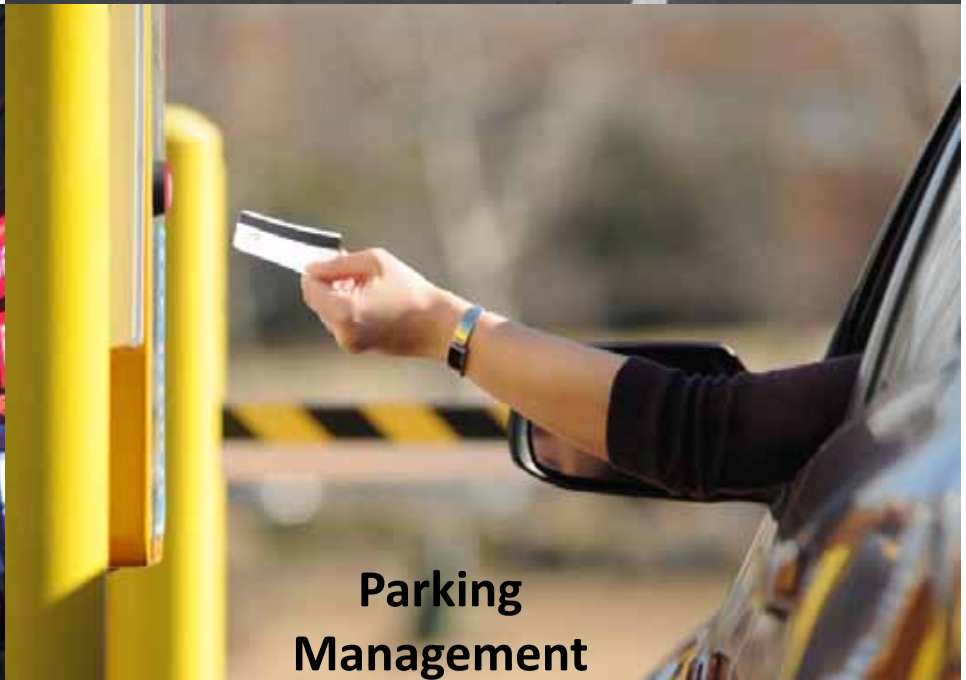


Car-Free Days

Pedestrian
Precincts

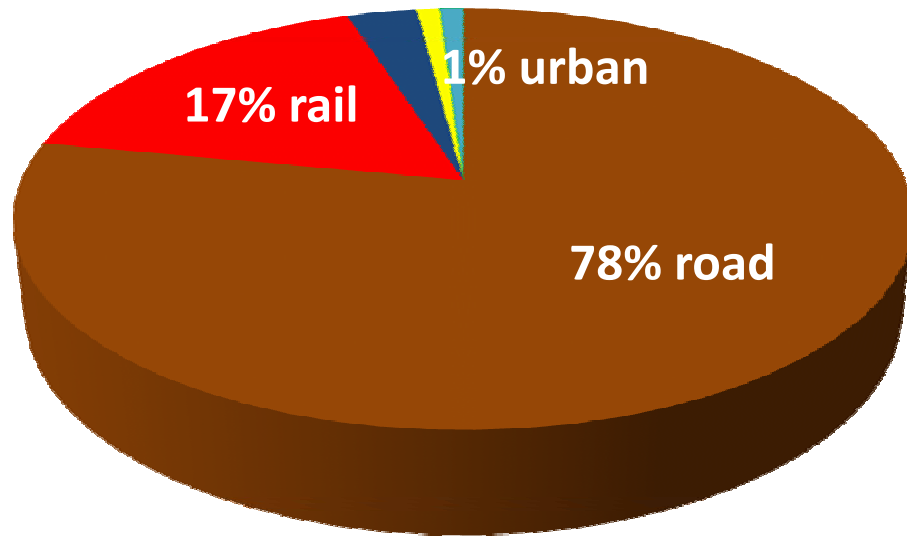


Parking
Management



ADB's 2020 targets

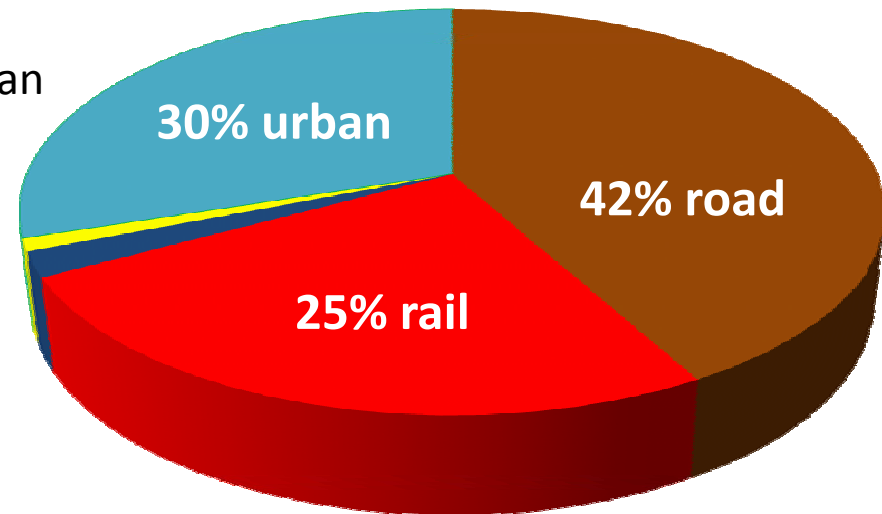
2000-2009



Percent of transport-sector loan portfolio

■ Roads ■ Rail ■ Water ■ Air ■ Urban

2020



■ Roads ■ Rail ■ Water ■ Air ■ Urban

**SUSTAINABLE
TRANSPORT
INITIATIVE****Sustainable Transport Initiative**

1. Urban transport
2. Transport and climate change
3. Logistics and cross-border transport
4. Road safety and social sustainability

Projects in the ADB pipeline



BRT projects in Dhaka, Jiangxi Ji'an, Lanzhou, Pimpri-Chinchwad, Ulaanbaatar, Yichang



Metro rail / LRT projects in Hanoi, Ho Chi Minh, Tbilisi, Astana



Integrated urban transport in Kathmandu, Davao, Vientiane, Xian, Yerevan

Leveraging value for sustainable transport



Fuel Security Credits



Carbon Credits



Health Credits



Road Safety Credits



Funding Sustainable Transport



Land Value Capture



Congestion Pricing

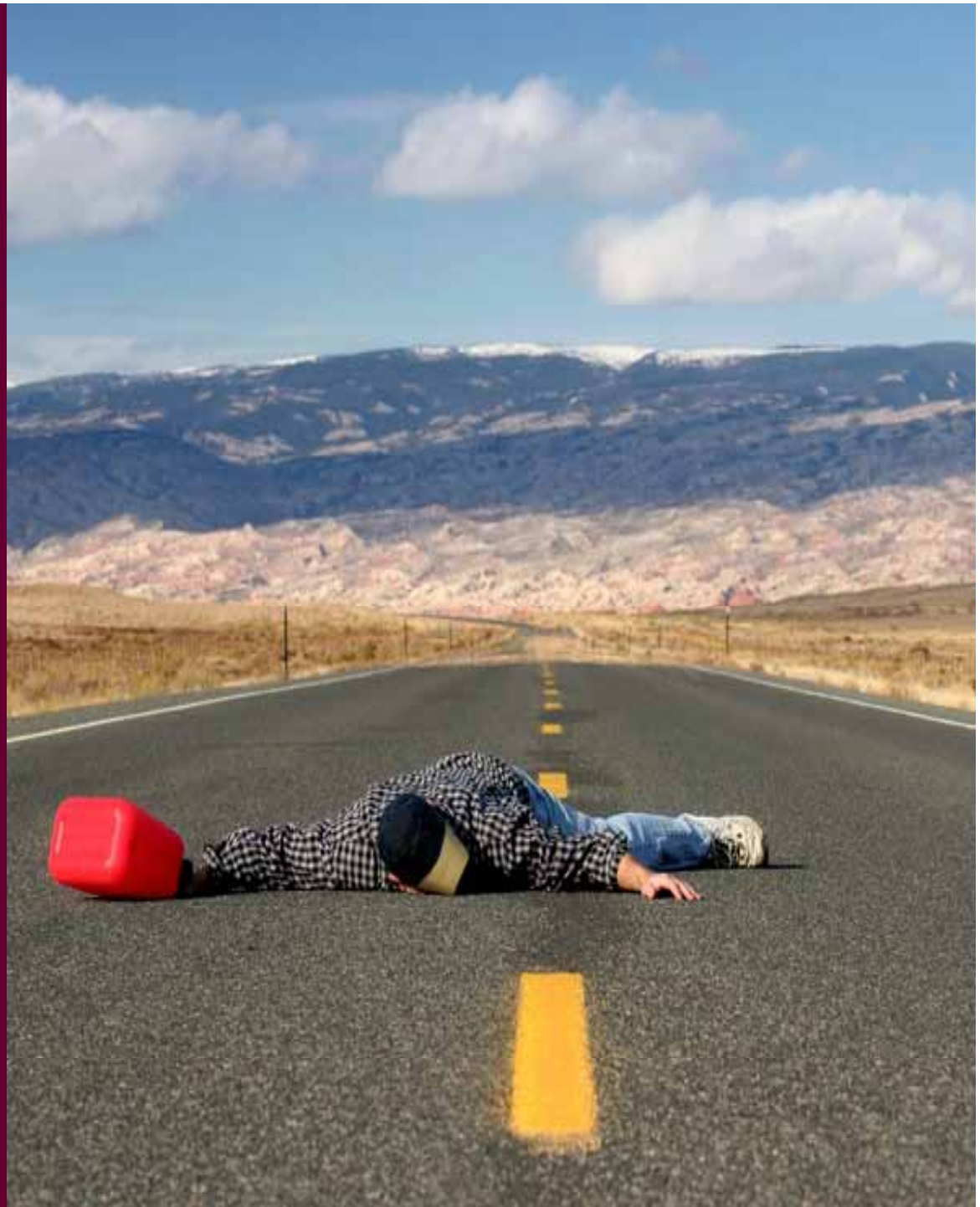


Parking Levies



Fuel Levies

Fuel Security Credits



Energy security
as a global
concern...and an
opportunity

INSIDE THIS WEEK: A 14-PAGE SPECIAL REPORT ON PROPERTY

The
Economist

MARCH 5TH - 11TH 2011

Economist.com

In search of a Republican challenger

Getting rid of Qaddafi

Europe's week of resignations

Tata's lesson for multinationals

Psychotherapy without therapists

Just as the world economy was recovering



Pilot Fund

**Mechanism type:
Offset**

**Target fund size:
US\$ 75 million**

**No. of cities to be awarded:
2 – 3 cities**

**Start date:
Late 2012**



Health Credits



Value Aspects of Health Credits



Accidents

- Injuries
- Deaths
- Work day losses
- Productivity losses
- Vehicle and property damage

Noise

- Illness
- Productivity losses

Lifestyle

- Obesity
- General fitness

Air Contaminants

- Asthma
- Other respiratory disease
- Respiratory infections
- Trachea, bronchus, lung cancers
- Cardiovascular disease
- Stroke and heart attacks

Capturing health benefits

Investment firm



Savings from reduced
accident payouts and
reduced medical payouts

e.g. 50%

Investment firm

e.g. 50%

Insurance
firms

Creating a Sustainable Transport Funding Stream

Mechanism	Example of potential income for a large Asian city (US\$ / yr)
Carbon credits	35 million
Fuel Security Credits	100 million
Health Credits	20 million
Congestion Charge	75 million
Parking Levy	50 million
Land Value Capture	100 million
Fuel Levy	125 million
Total	US\$ 500 million

* Indicative figures only



ADB contacts

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During this plenary session..



**36,000 cell phones were sold in the
Asia-Pacific**

During this plenary session...



**4,900 persons moved from
a rural area to an urban
area in the Asia-Pacific**

During this plenary session...

**3,800 cars and motorcycles were
sold in the Asia-Pacific**



Thank you

Lwright@adb.org

中山路步行街欢迎您

Welcome To Zhongshanlu Pedestrian Street

