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# ADB Transport Sector Overview

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# Asian Development Bank in brief

- Founded in 1966
- Aim is an Asia Pacific free of poverty
- Owned by 67 countries, including 48 regional and 19 nonregional
- HQ in Manila, 29 resident missions, 3 representative offices
- Provides loans, grants, policy dialogue, technical assistance, equity investments in 44 developing member countries
- In 2014 provided \$22.93 billion



# Sustainable transport is...

- ✓ accessible
- ✓ affordable
- ✓ environment friendly
- ✓ safe



# The good and the bad...

- Transport **enables** economic & social activity, provides access to opportunities, services
- **But** has **negative effects** too - congestion, emissions, environment impacts, accidents

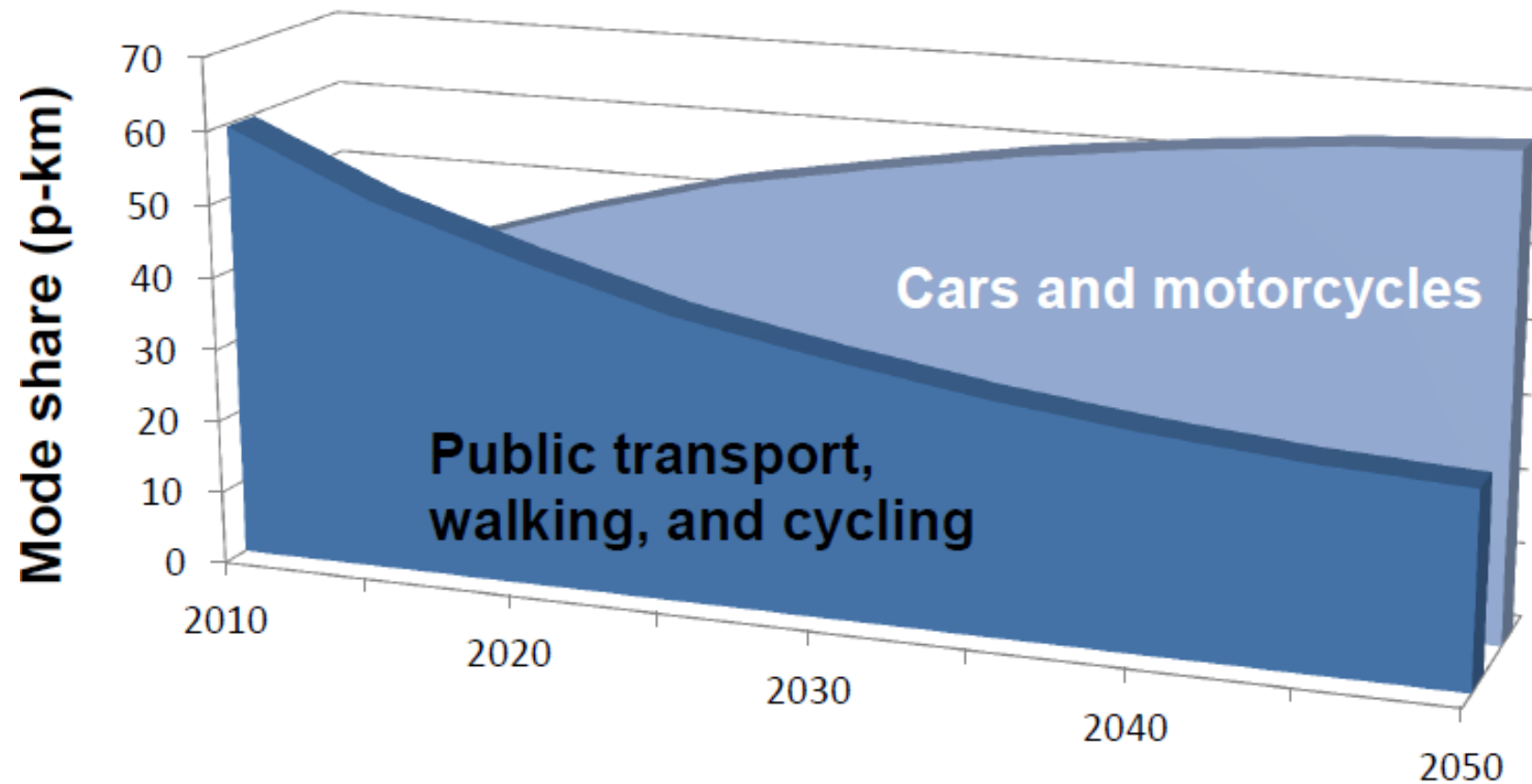
# Massive investment needs

- **\$2.5 trillion** for transport in developing Asia, 2010-20
- Poor countries need basic access
- Others face capacity bottlenecks
- Asia's rapidly growing cities need urban transport

# Extending access, connectivity



# Problem of rapid motorization



Source: ADB and IEA, 2011



# Congestion



# Air pollution



# Rising GHG emissions

- Transport is **23%** of global energy-related GHG emissions
- Land transport is **3/4** of transport GHG emissions
- Land transport GHG emissions to **double by 2050** based on current trend

# Unsafe roads

- **645,000 annual road deaths** and 30 million injuries in developing Asia
- Leading cause of death for 15-44 year olds, 2<sup>nd</sup> leading for 2nd leading cause for 6-14 year olds
- Vulnerable users are 50–75% of deaths
- Costs 2-5% of GDP

# Avoid-Shift-Improve Paradigm

**Avoid**  
the need to  
travel

**Shift**  
to sustainable  
modes

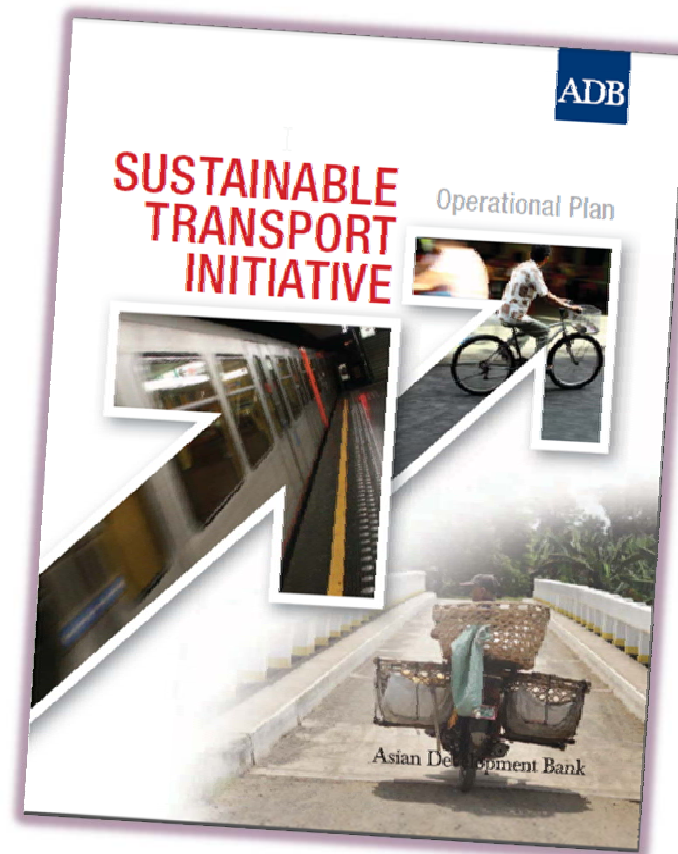
**Improve**  
efficiency of  
all modes



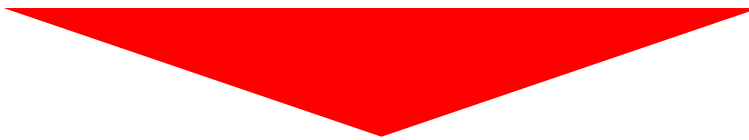
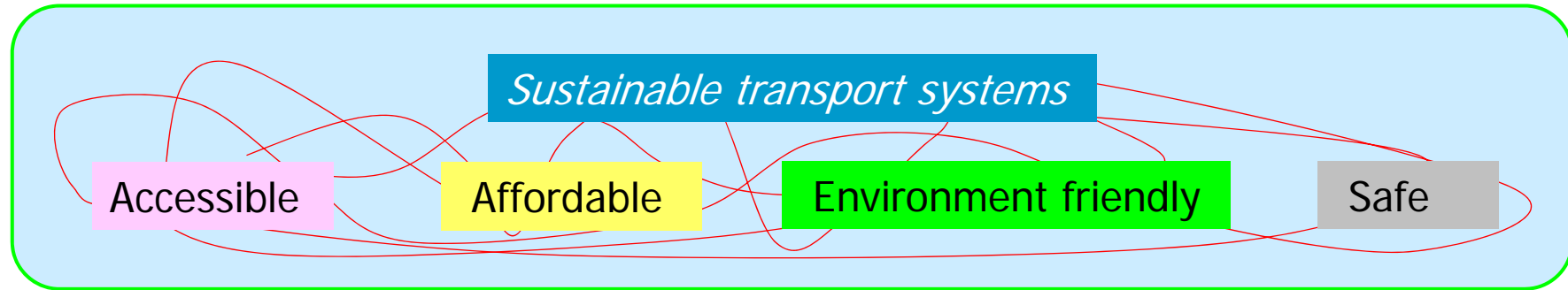
**Lower congestion, emissions,  
air pollution, road accidents,  
respiratory & health problems**

# ADB's Sustainable Transport Initiative


- STI approved in 2010
- Aims to transform ADB transport operations
- Covers a 10 year period, 2010-20



# STI priorities and targets

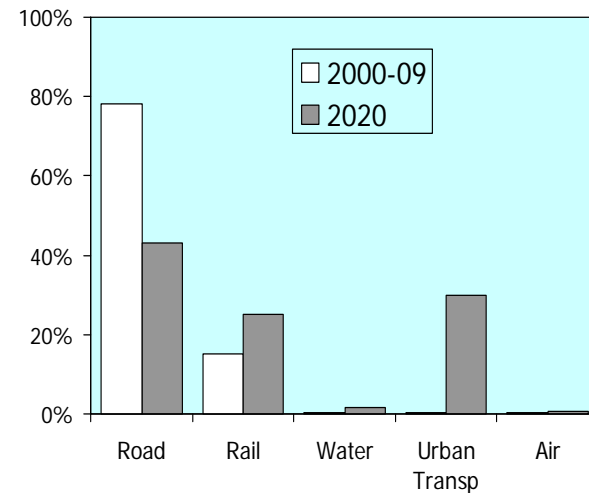


## STI lending directions

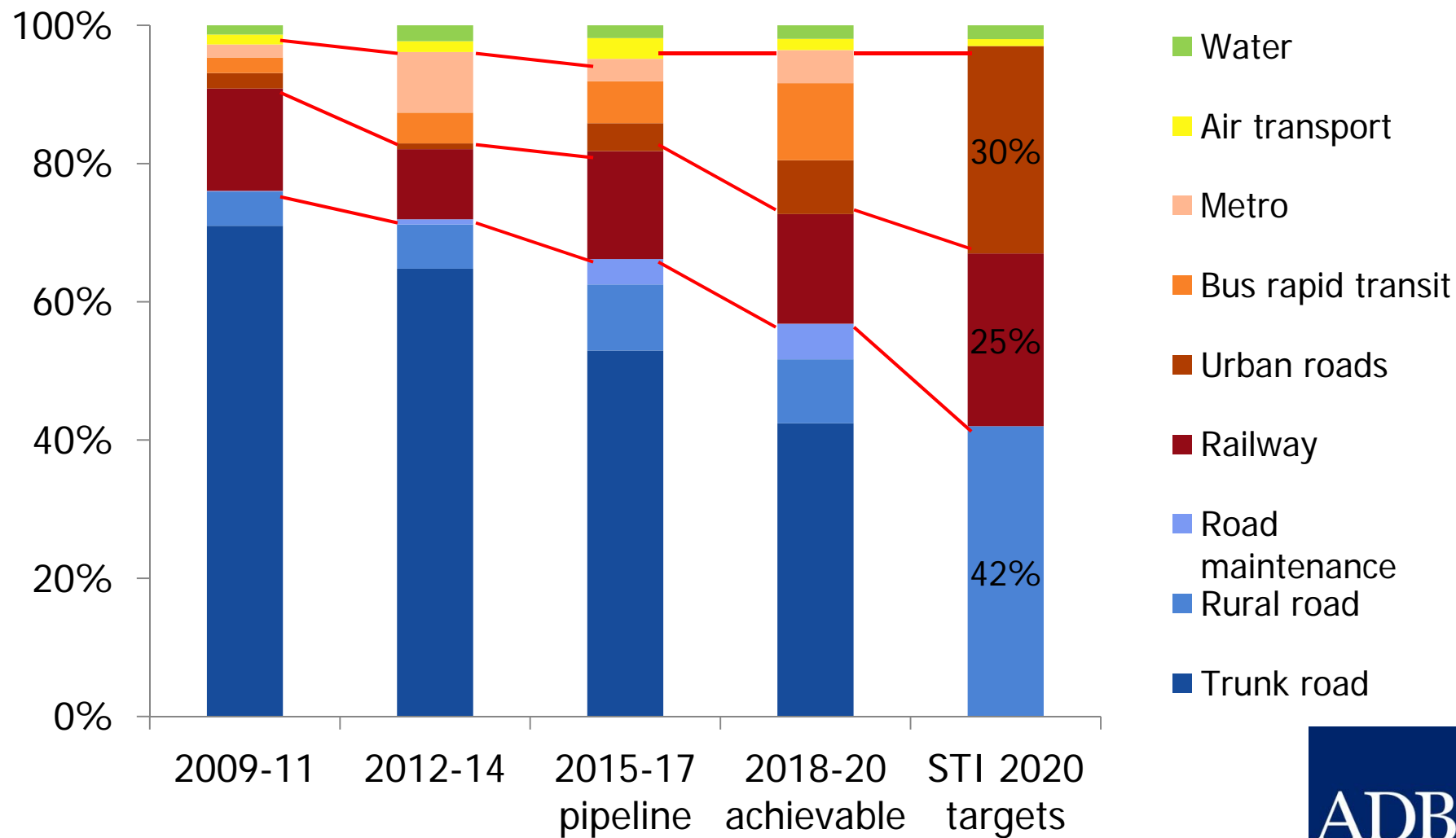
- ▷ Mainstream sustainability in roads
- ▷ Scale up 4 areas 

- Urban transport
- Addressing climate change
- Cross-border transport & logistics
- Road safety & social sustainability

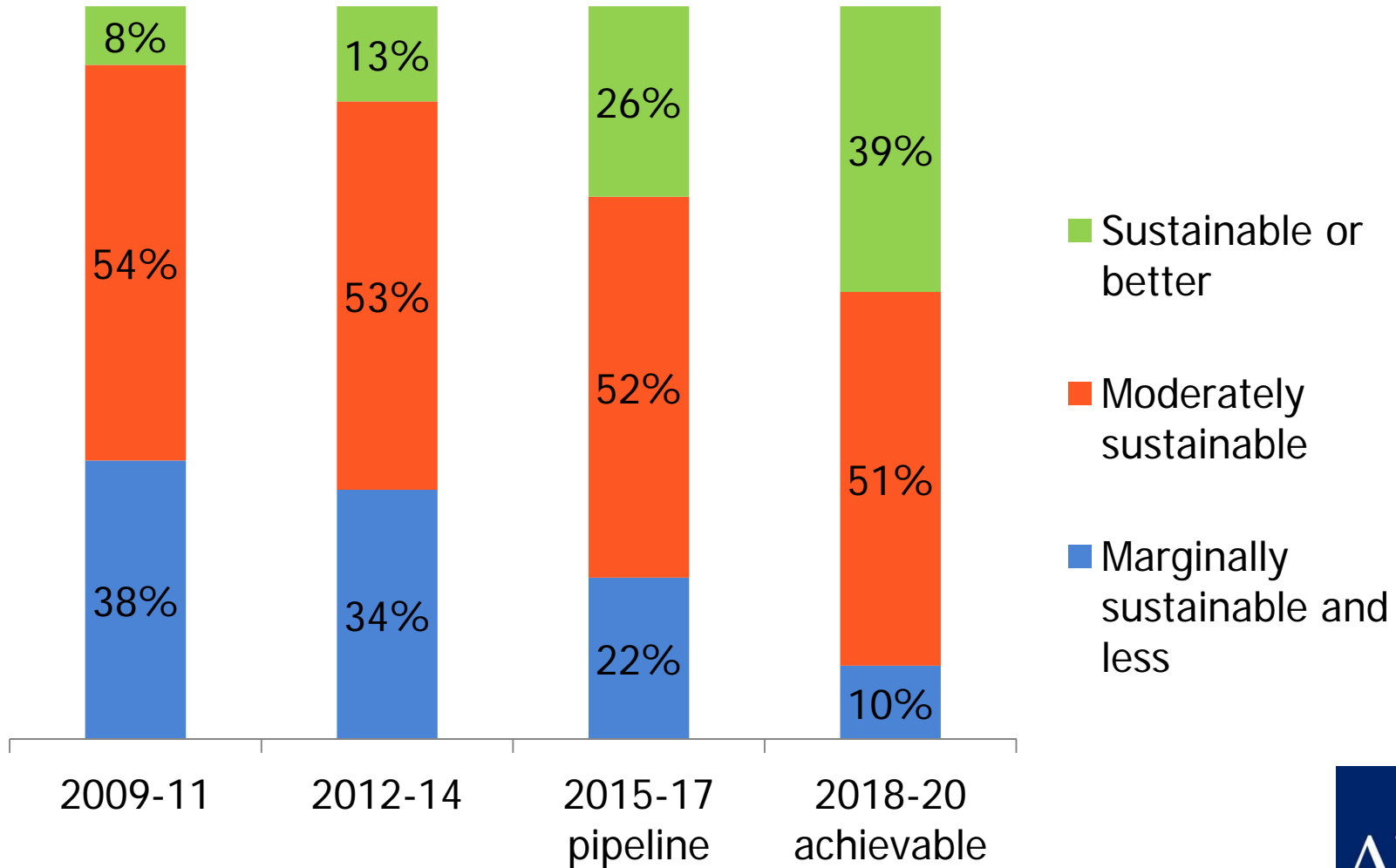
## STI subsector lending targets



# Progress against STI lending targets



# Rated sustainability of transport lending (using STAR)

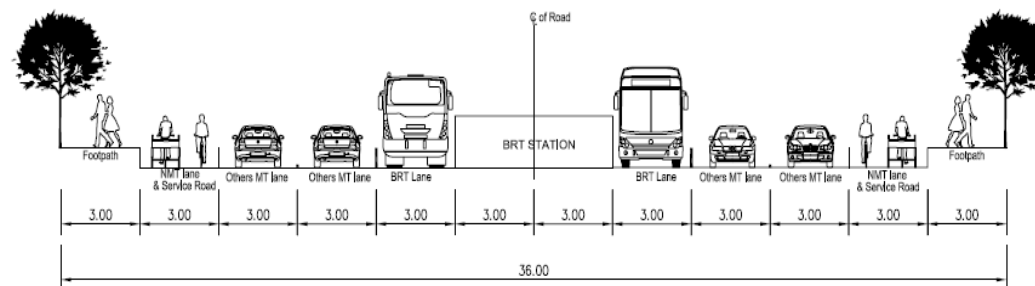


# ADB transport operations: 2014 in numbers

Total of **34** loans and grants and **26** technical assistance projects approved

Projects represented a total of **\$3.7 billion** in ADB investment, 28% of total ADB

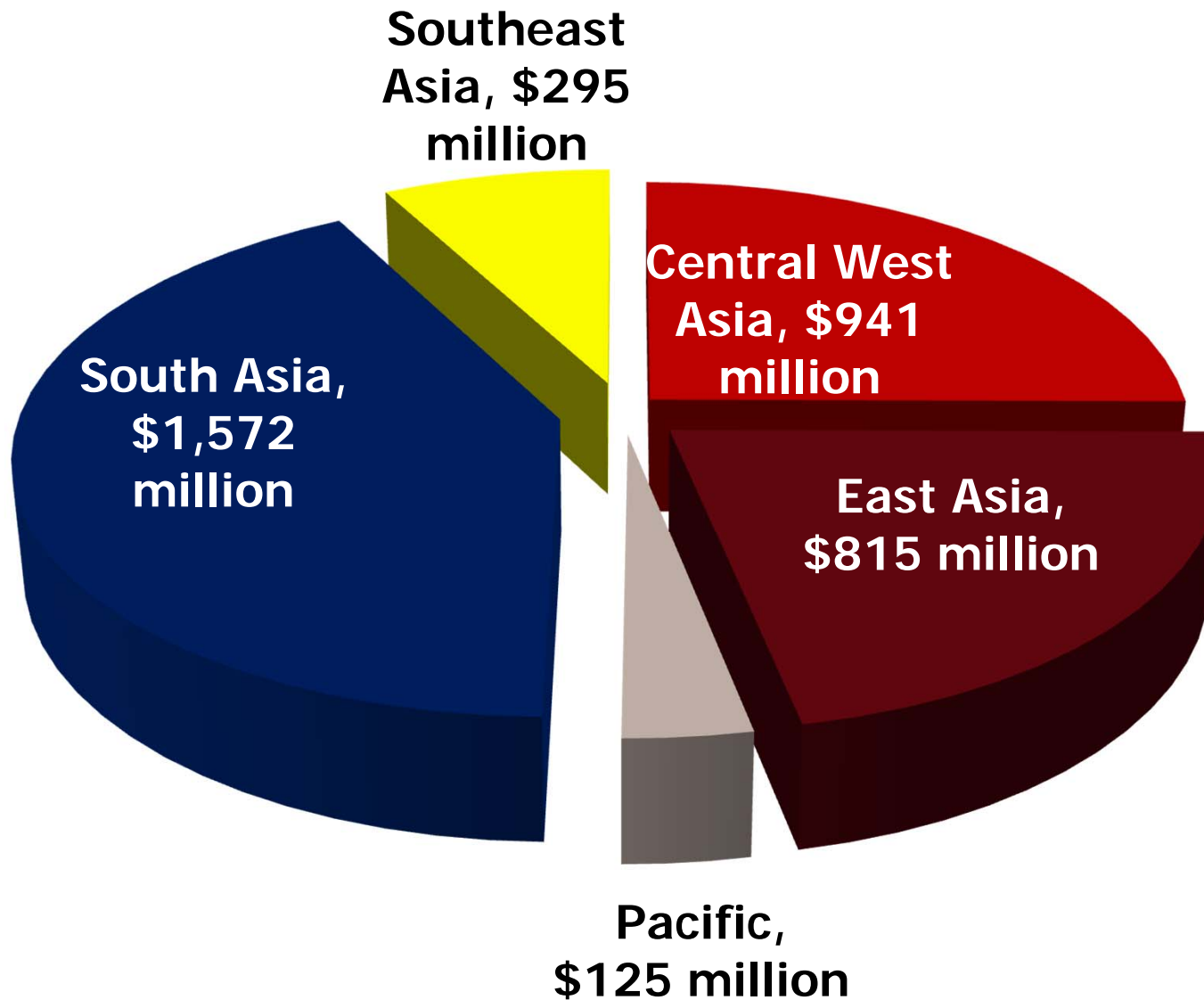
Serving **21** countries



CROSS SECTION OF ROAD AT BRT STATION (TYPE - B & C)  
AT CH. 15+550



## Transport approvals by sub-region, 2014



# Road transport

**Remains largest  
ADB transport  
sub-sector**

- ❑ Performance-based contracting
- ❑ Climate resilient infrastructure
- ❑ Cross-border regional networks
- ❑ Road safety initiatives



# Examples of road transport approvals, 2013-14

## Afghanistan

Transport Network Development  
Investment Program - Tranche 3  
& 4 \$329 million

## Armenia

North-South Road Corridor  
Investment Program - Tranche 3  
\$100 million

## Azerbaijan

Second Road Network  
Development Investment Program  
- Tranche 2 \$250 million

Road Network Development  
Program - Tranche 4 \$45 million

## Bhutan

South Asia Subregional Economic  
Cooperation Road Connectivity  
\$50 million



# Examples of road transport approvals, 2013-14

## Cambodia

Rural Roads Improvement II \$54 million

## Fiji

Transport Infrastructure Investment Sector Project \$70 million

## India

Madhya Pradesh District Connectivity Sector Project \$350 million

South Asia Subregional Economic Cooperation Road Connectivity Investment Program - T1 \$300 million

Rural Connectivity Investment Program - Tranche 2 \$275 million

Uttarakhand State - Road Investment Program - Tranche 3 \$150 million

North Eastern State Roads Investment Program-T2 \$125 million



# India: Rural Roads Sector II Investment Program



# Water transport approvals, 2013-14

## PRC

Anhui Intermodal  
Sustainable Transport  
Development

\$47 million

## Fiji

Transport  
Infrastructure  
Investment Sector  
Project

\$30 million



# Air transport approvals, 2013-14

## Papua New Guinea

Civil Aviation  
Development  
Investment Program  
– Tranche 2  
\$130 million

## Nepal

South Asia Tourism  
Infrastructure  
Development -  
Additional Financing  
\$30 million



# Railways approvals, 2013-14

## Bangladesh

**South Asia Subregional Economic  
Cooperation Railway Connectivity:  
Akhaura-Laksam Double Track  
\$505 million**

**Railway Sector Investment Program -  
Tranche 3 \$100 million**

## India

**Railway Sector Investment Program -  
Tranche 2 \$130 million**

## PRC

**Railway Energy Efficiency And Safety  
Enhancement Investment Program -  
Tranche 4 & 5 \$350 million**



# Afghanistan rail: first commercial rail network in the country's history



# Bangladesh rail



# Urban transport approvals, 2013-14

## Georgia

Sustainable Urban Transport  
Investment Program – Tranche 3  
\$73 million

## India

Jaipur Metro Rail \$176 million

## PRC

Hubei-Yichang Sustainable  
Urban Transport Project  
\$150 million

Jiangxi Ji'an Sustainable Urban  
Transport Project \$120 million

## Viet Nam

Strengthening Sustainable Urban  
Transport For Ha Noi Metro Line  
3 \$4 million

Sustainable Urban Transport For  
Ho Chi Minh City Mass Rapid  
Transit Line 2 = \$ 10 million



## Lanzhou Bus Rapid Transit: ADB's first BRT project



- \$462m project, \$150m ADB loan approved in 2009
- BRT opened in early 2013, serving 290,000 daily trips, traffic to rise sharply as more routes connected



# Thank you!

