



ADB and Nationally Appropriate Mitigation Actions in transport sector

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OVERVIEW

- ADB's Sustainable Transport Initiative
- NAMA related initiatives
 - *Transport NAMA Support Facility*
 - *GMS Green Freight Initiative*
 - *Case example from India*

ADB SUSTAINABLE TRANSPORT INITIATIVE PRIORITIES

SUSTAINABLE TRANSPORT INITIATIVE

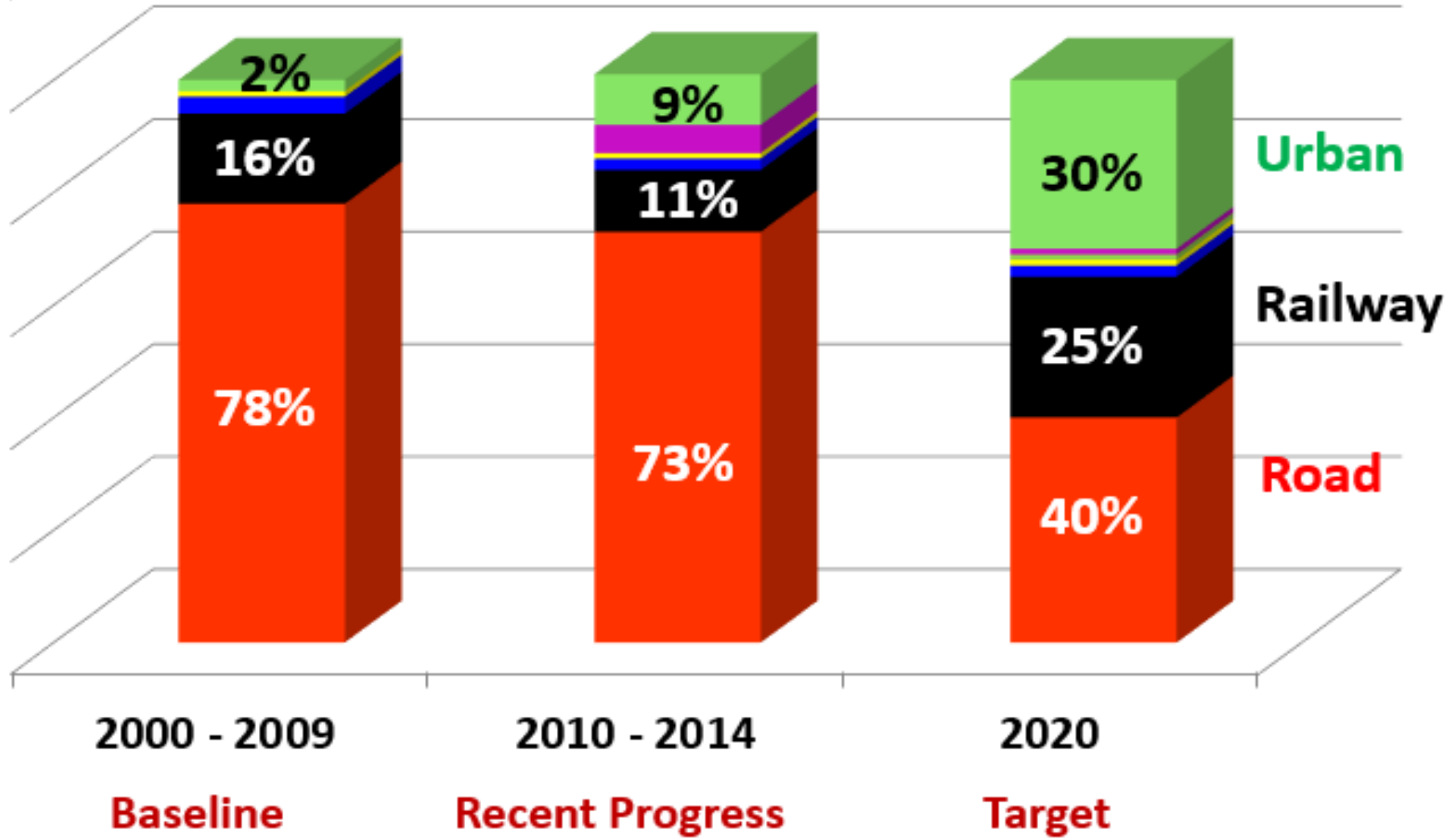
Operational Plan



- Urban transport
- Climate change/green transport
- Safety and social sustainability
- Cross border transport and logistics

ADB's transport transformation

Percentage of transport sector investment



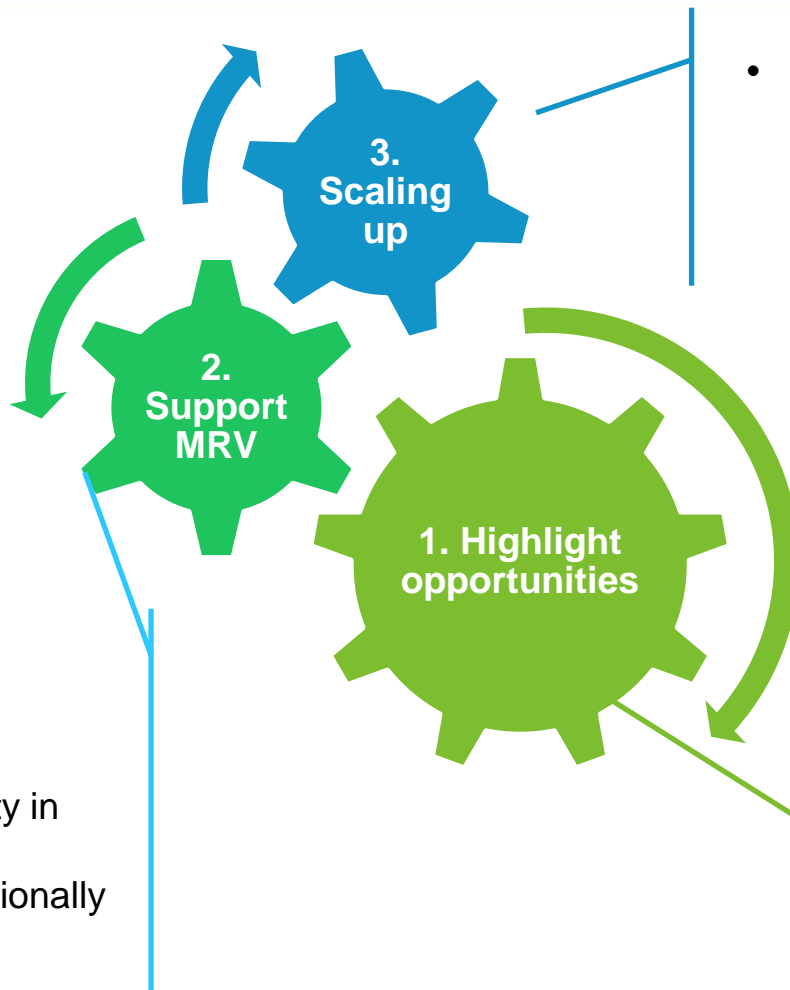
ADB TRANSPORT NAMA SUPPORT FACILITY- OBJECTIVE

- hands-on support to governments in the design and development of transport NAMAs
 - *transport and climate change experts*
 - *knowledge sharing/training workshops*
- follow-up support in structuring and attracting project finance
 - *carbon-related funding and other traditional forms of funding and financing*

ADB TRANSPORT NAMA SUPPORT FACILITY- KEY INFORMATION

- Funding Source: **NDF**
- Date of operation: **2015**
- Target:
 - Develop NAMA in up to 3 priority countries.
- Priority Countries:
 - Bangladesh, Cambodia, Kyrgyz Republic, Lao PDR, Maldives, Mongolia, Nepal, Pakistan, Sri Lanka, Vietnam

KEY CONSIDERATIONS



- Developing tools for transport NAMAs
- Improving data quality in DMCs
- Transfer learning regionally

- Nurture a programmatic approach at national level

- Identify opportunities for transport NAMAs
- Link NAMA process with existing actions and projects

GMS GREEN FREIGHT INITIATIVE

- **Aim:** To reduce GHGs from freight transport



Improving driver behavior and vehicle maintenance

- **Outcome:** Successful testing of approaches to deploy fuel efficiency interventions in road freight companies



Promoting green technologies through low cost financing

- **Scope:** GMS corridor provinces (East-West Economic Corridor)



Improving logistics management and fleet utilization

SCALE-UP SUPPORT- LEVERAGE INVESTMENT

- Using pilots to leverage further investment by:
 - *Building cross-sector coordination mechanisms between transport and environment*
 - *Carrying out study to identify financing models for low carbon technologies*

Pilot projects (2013-15)

- ~ \$1.5 million in 3 countries
- At least 10% fuel efficiency gain
- 1000 drivers, 350 vehicles engaged
- Expected savings: 9000tCO₂ p.a. / 1% of EWEC freight emissions (2013)



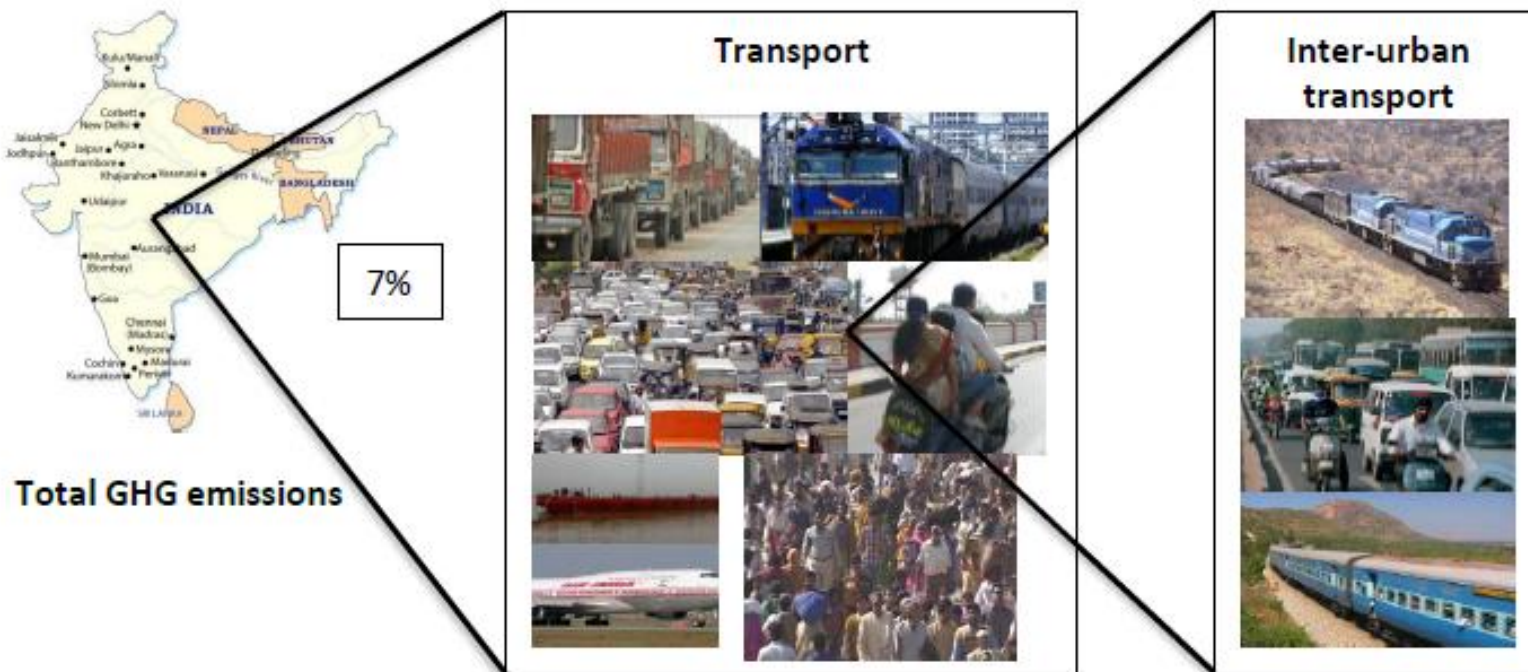
Investment potential

- ~ \$20 million in 3 countries
- At least 10% fuel efficiency gain
- 5000 drivers, 4500 vehicles engaged
- Expected savings of 100 ktCO₂ p.a. / 10% of EWEC freight emissions (2015)

On-going: Measuring Reporting Verifying (MRV) of GHG reduction for NAMA

- NAMA feasibility study
 - *Building on pilot projects to identify ‘pre-feasibility’ of NAMA for freight transport*
 - *Geog. scope: Regional (Lao PDR, Viet Nam and Thailand)*
 - *Duration: 2014 – 2015*
 - *Strong focus on capacity building and awareness raising*
 - *Outputs: MRV requirements for freight NAMAs, NAMA concepts for 2 countries*
- MRV capacity building program

CASE EXAMPLE:INDIA-CLIMATE MITIGATION IN INTER-URBAN RAIL SECTOR



OBJECTIVES

- Reduce GHG emissions through low-carbon inter-urban passenger and freight transport
- Important aspects
 - *Focus on Mode Shift road-to-rail and air-to-rail*
 - *Passenger and freight transport*
 - ***Sector approach***

SCOPE

- Actions or activities are based on NTDPC*, Working Group on Railways 2012
- Infrastructure investment focus including:
 - 6 Dedicated Freight Corridors
 - 14,500 km of 3rd and 4th line
 - 24,000 km of double tracking
 - 30,000 km of new lines
 - Electrification of 20,000 km
 - New rolling stock
 - Investments in stations, infrastructure, terminals etc.



METHODOLOGY

Step 1

- Establish business as usual India rail non-urban passenger and freight movement

Step 2

- Activity level project non-urban passenger and rail movement

Step 3

- Emission factor for baseline modes and project modes

Step 4

- Leakage sources and calculation of leakage emissions

Step 5

- Sustainable development impacts and quantification of the impact



ADB TRANSPORT

Moving Change in Asia and the Pacific

**THANK YOU FOR YOUR
ATTENTION**

ADB