Final Conclusion Workshop
Promoting Low Carbon Transport in India

Manekshaw Centre

26th November 2015

Supported by:

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

based on a decision of the German Bundestag

Partner Organizations:

In collaboration with:

Promoting Low Carbon Transport in India

Inclusive and sustainable mobility

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IIM AHMEDABAD

CEPT UNIVERSITY

About the Project

Project Name: Promoting Low Carbon Transport in India

Project Implementer: United Nations Environment Programme (UNEP) and UNEP DTU Partnership (UDP)

Key Partners in India: the Indian Institute of Management (IIM), Ahmedabad; the Indian Institute of Technology (IIT), Delhi; and CEPT University

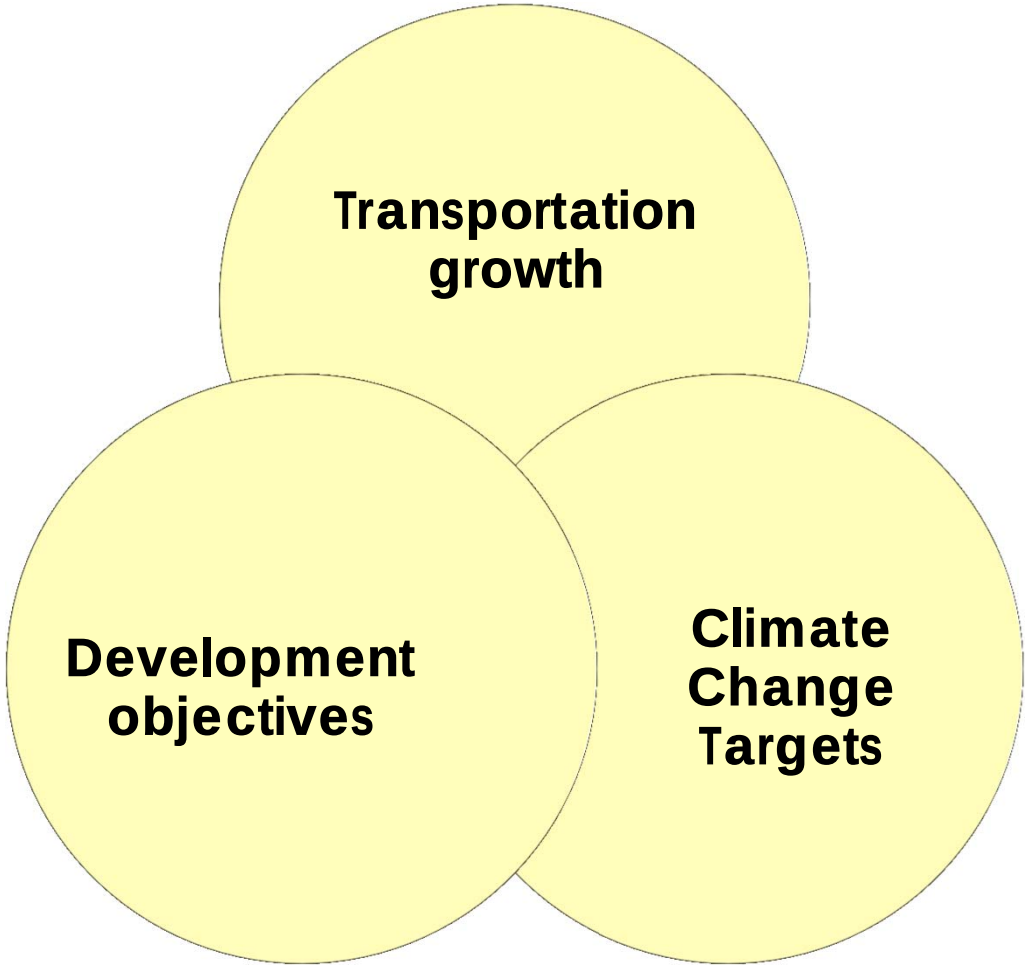
Donor: International Climate Initiative (IKI) of the German Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety (BMUB)

Funding: Euro 1.95 million

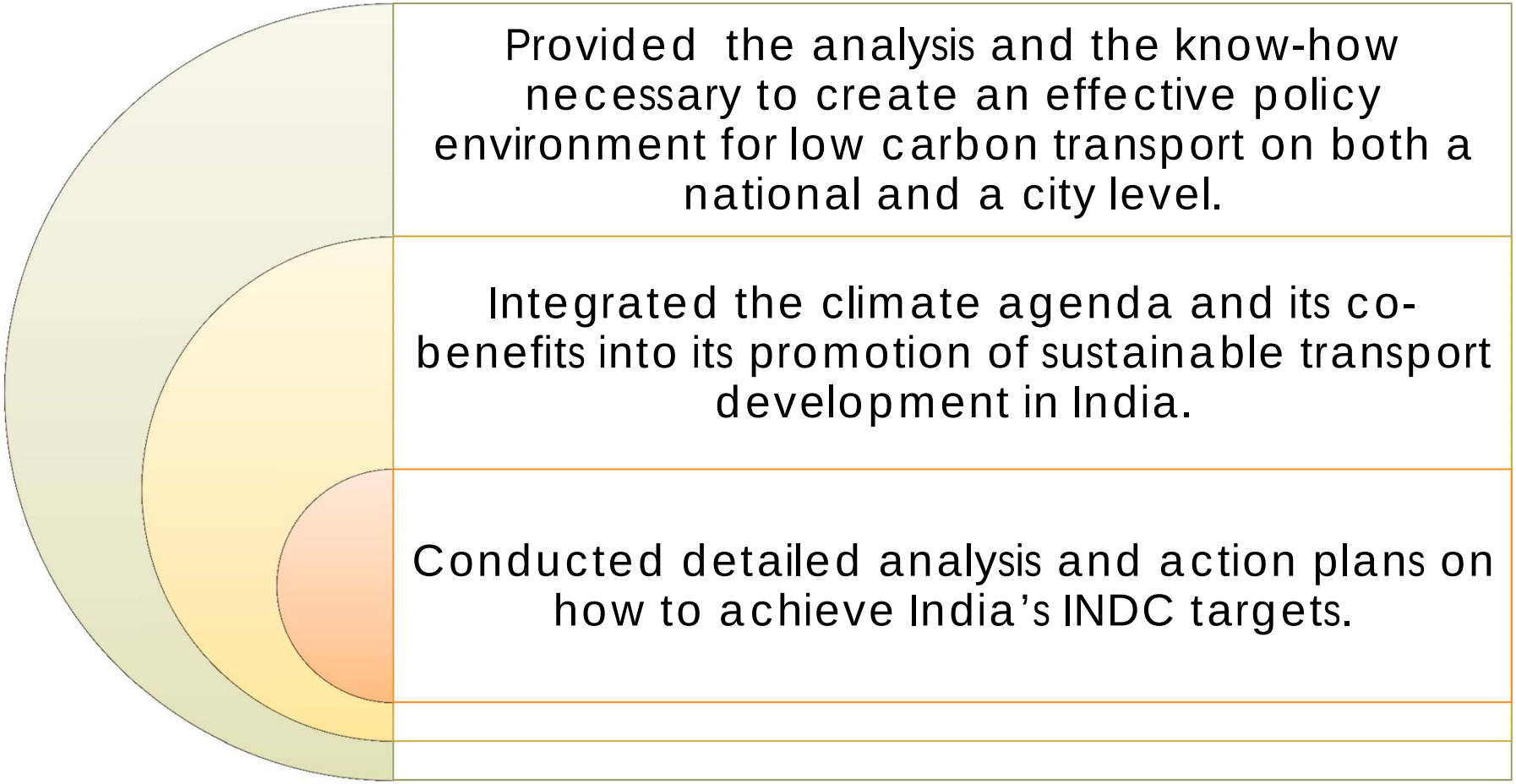
Website: www.unep.org/transport/lowcarbon

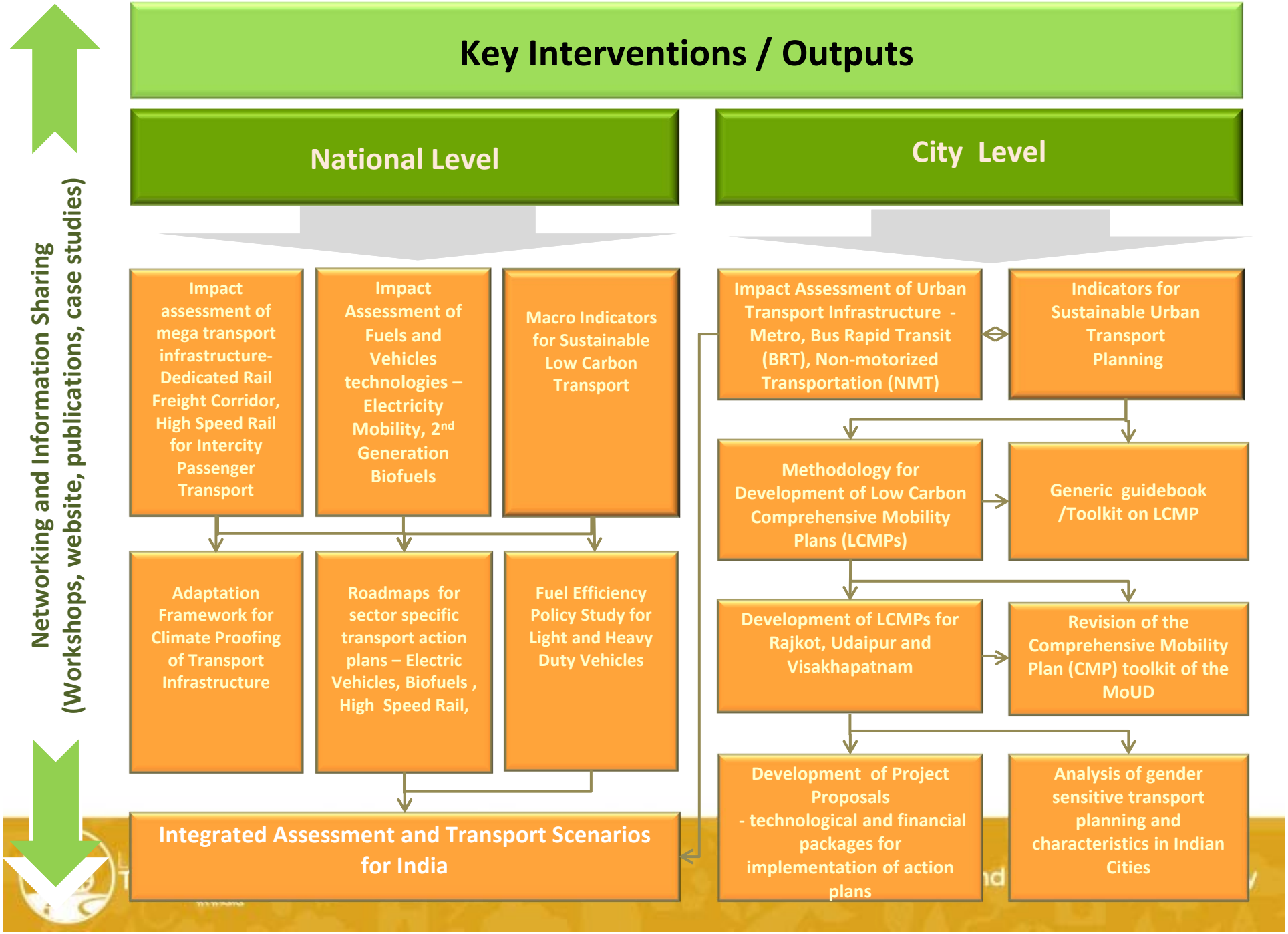
Duration: September 2010 – December 2015

About the Project - optimal socially inclusive solution for the transport sector



What we did ?


Provided the analysis and the know-how necessary to create an effective policy environment for low carbon transport on both a national and a city level.
Integrated the climate agenda and its co-benefits into its promotion of sustainable transport development in India.
Conducted detailed analysis and action plans on how to achieve India's INDC targets.


Key Interventions / Outputs
National Level
City Level
Networking and Information Sharing
(Workshops, website, publications, case studies)
Impact assessment of mega transport infrastructure- Dedicated Rail Freight Corridor, High Speed Rail for Intercity Passenger Transport
Impact Assessment of Fuels and Vehicles technologies – Electricity Mobility, 2nd Generation Biofuels
Macro Indicators for Sustainable Low Carbon Transport
Adaptation Framework for Climate Proofing of Transport Infrastructure
Roadmaps for sector specific transport action plans – Electric Vehicles, Biofuels , High Speed Rail,
Fuel Efficiency Policy Study for Light and Heavy Duty Vehicles
Integrated Assessment and Transport Scenarios for India
Impact Assessment of Urban Transport Infrastructure - Metro, Bus Rapid Transit (BRT), Non-motorized Transportation (NMT)
Indicators for Sustainable Urban Transport Planning
Methodology for Development of Low Carbon Comprehensive Mobility Plans (LCMPs)
Generic guidebook /Toolkit on LCMP
Development of LCMPs for Rajkot, Udaipur and Visakhapatnam
Revision of the Comprehensive Mobility Plan (CMP) toolkit of the MoUD
Development of Project Proposals
- technological and financial packages for implementation of action plans
Analysis of gender sensitive transport planning and characteristics in Indian Cities

Outcome of the Integrated Assessment of the Transport Sector

A low carbon transport transition is possible for India.

First Wedge: **electricity cleaning**, including the uptake of electric vehicles and the decarbonisation of electricity in India's power grid.

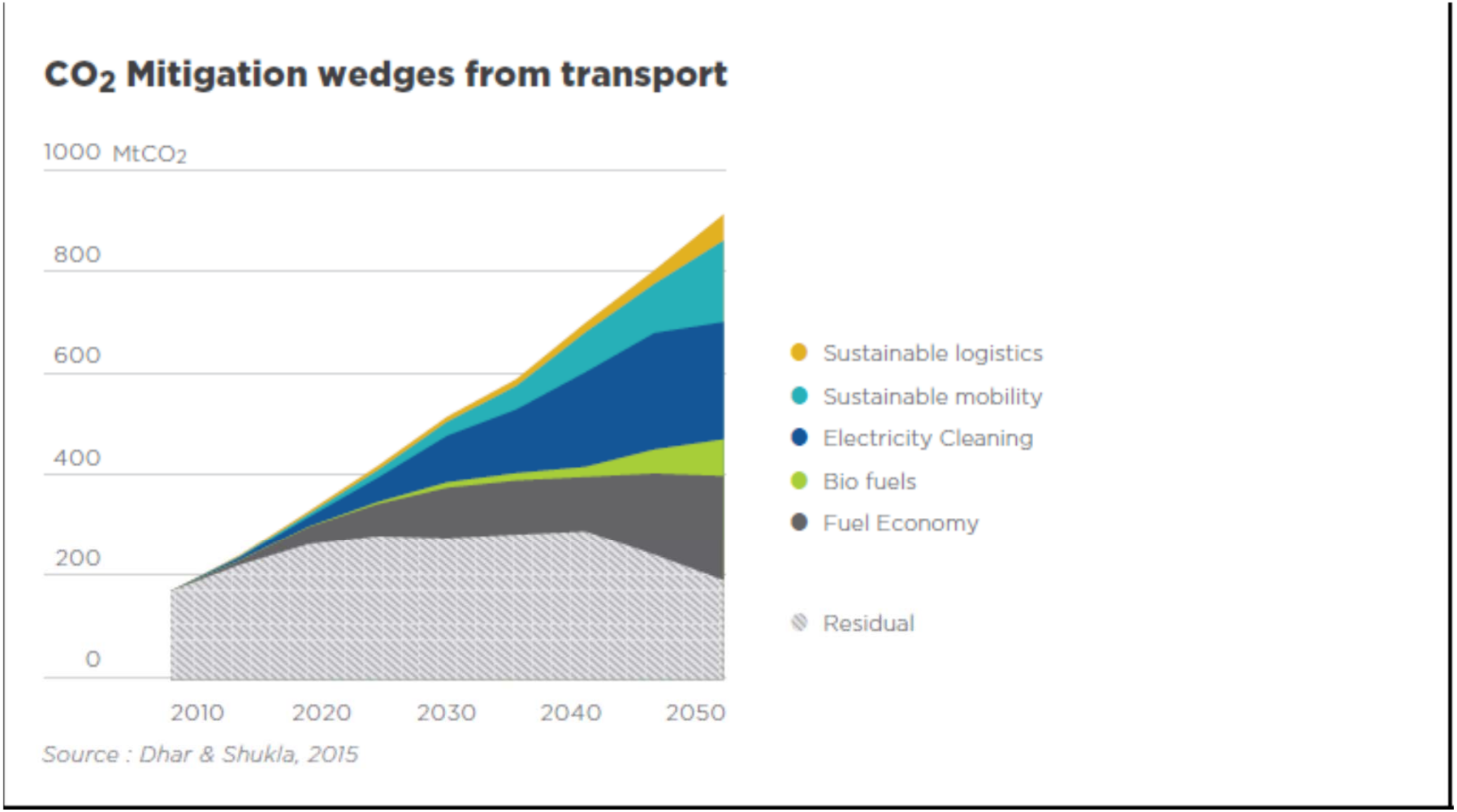
Second Wedge: CO_2 reduction from implementation of stringent **fuel economy** targets

Third Wedge: **Sustainable mobility**, including passenger transport initiatives such as metro and Bus Rapid Transit (BRT) systems, along with improved integration of NMT modes, the use of feeder buses, and a higher share of rail in intercity transport.

Fourth Wedge: **Biofuel penetration**, facilitated through national policies and enabling mechanisms, as well as carbon price.

Fifth Wedge: Interventions in the **freight transport** sector through the implementation of dedicated freight corridors, demand reduction for coal freight, etc.

KEY FINDINGS and RECOMMENDATIONS



"Transport sector can transit to a pathway consistent with the 2 °C scenario and the five wedges which can deliver the reductions in CO2 emissions of 13 billion tons from 2010 to 2050

Contributions to India's INDC

Rail Transport	• Enhancing the share of rail in total land transportation from 36 % to 45 % • Dedicated Freight Corridors will reduce 457 million tonnes of CO_2 over a 30-year period
Coastal shipping and inland waterways	• the implementation of a 1,620-km navigable channel for large commercial ships • to establish a waterway transportation grid connecting existing and proposed waterways to roads, railways, and ports. • to improve and augment capacity in India's ports, promoting efficient transportation of goods. • a 7,000 km road network along the coast will provide further connectivity to these ports.
Mass transit	• Urban transport to focus on moving people - investments in mass transit
Vehicle efficiency	• Efficiency targets for new cars starting 2016 • Improve fuel standards from Euro IV equivalent to Euro V and finally to Euro VI
Alternate Fuels and Vehicles	• Incentivizing faster adoption and manufacturing of hybrid and electric vehicles in the country • Promoting Biofuels

www.unep.org/transport/lowcarbon