



Partnership on Sustainable
Low Carbon Transport

Transport Co-benefits in Asia: From Concept to Reality

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Seminar on a Co-benefits Approach:

Emerging Trends and Needs

11th - 12th March

Amari Watergate Hotel, Bangkok, Thailand

Outline

- The case for a co-benefits approach
- Assessment of current status of co-benefits approach to air quality and climate change in transport in Asia
- Recommendations to move the co-benefits approach from concept to practice



Part 1

THE CASE FOR A CO-BENEFITS APPROACH TO TRANSPORT

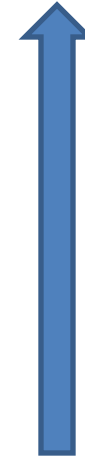


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Interacting effects

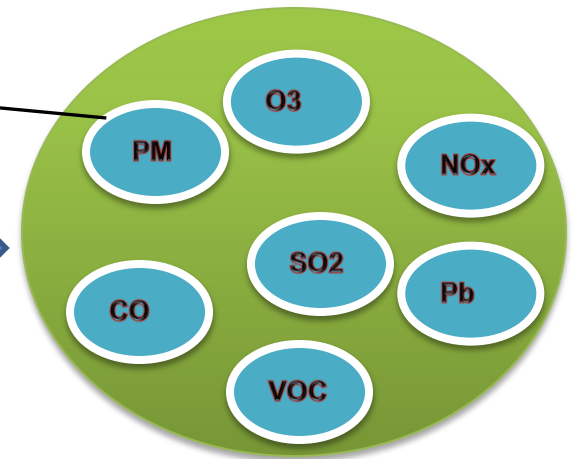
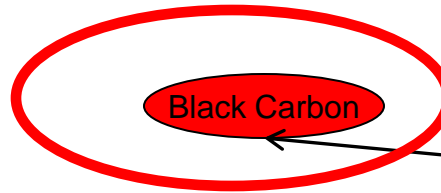
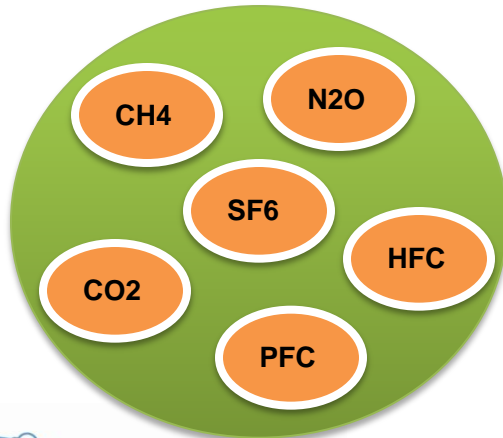
CLIMATE CHANGE

AIR POLLUTION
(Global, Regional, Urban)



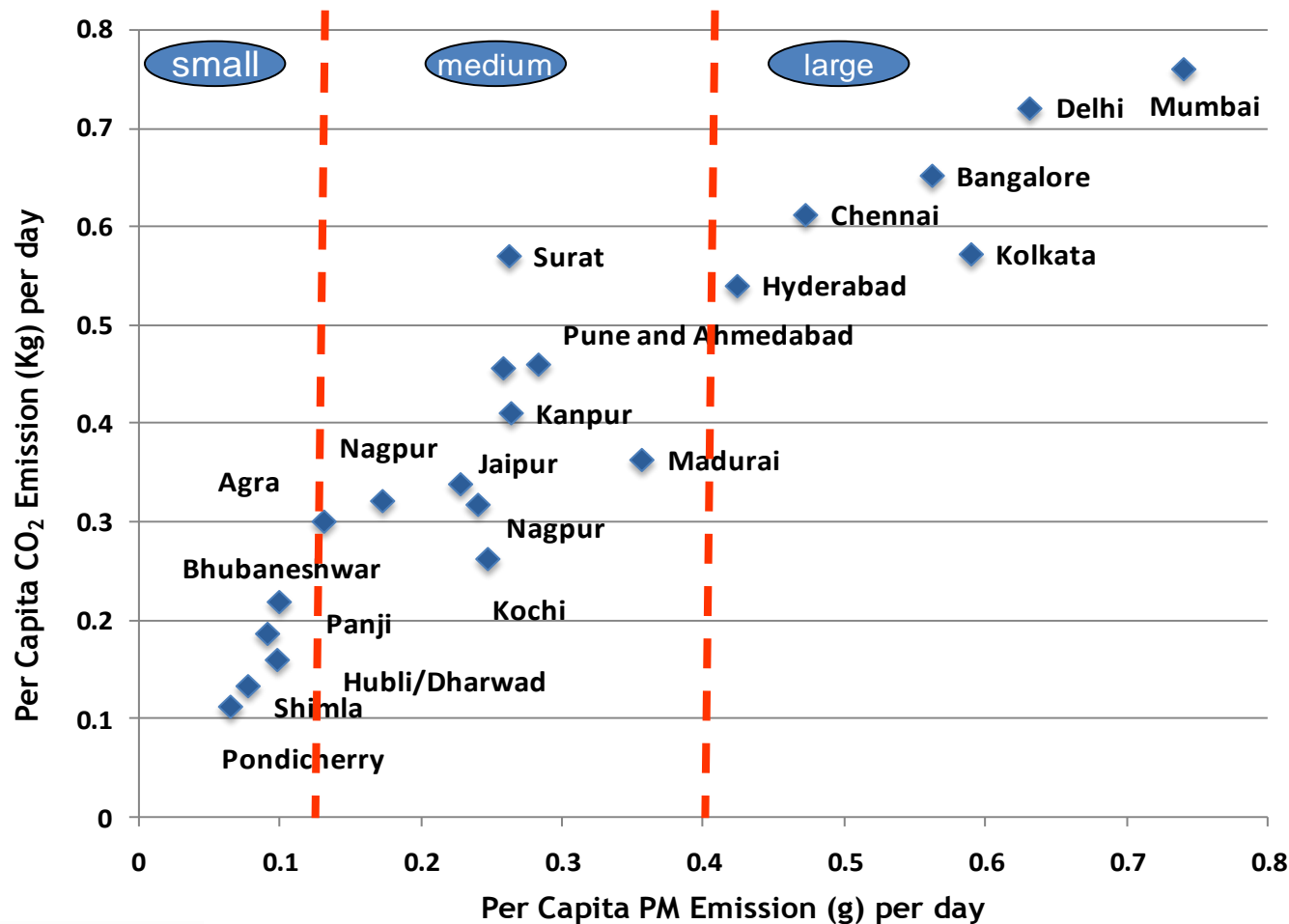
Greenhouse gases (Kyoto Protocol only)

Air Pollutants



Relationship PM10 – CO 2 emissions

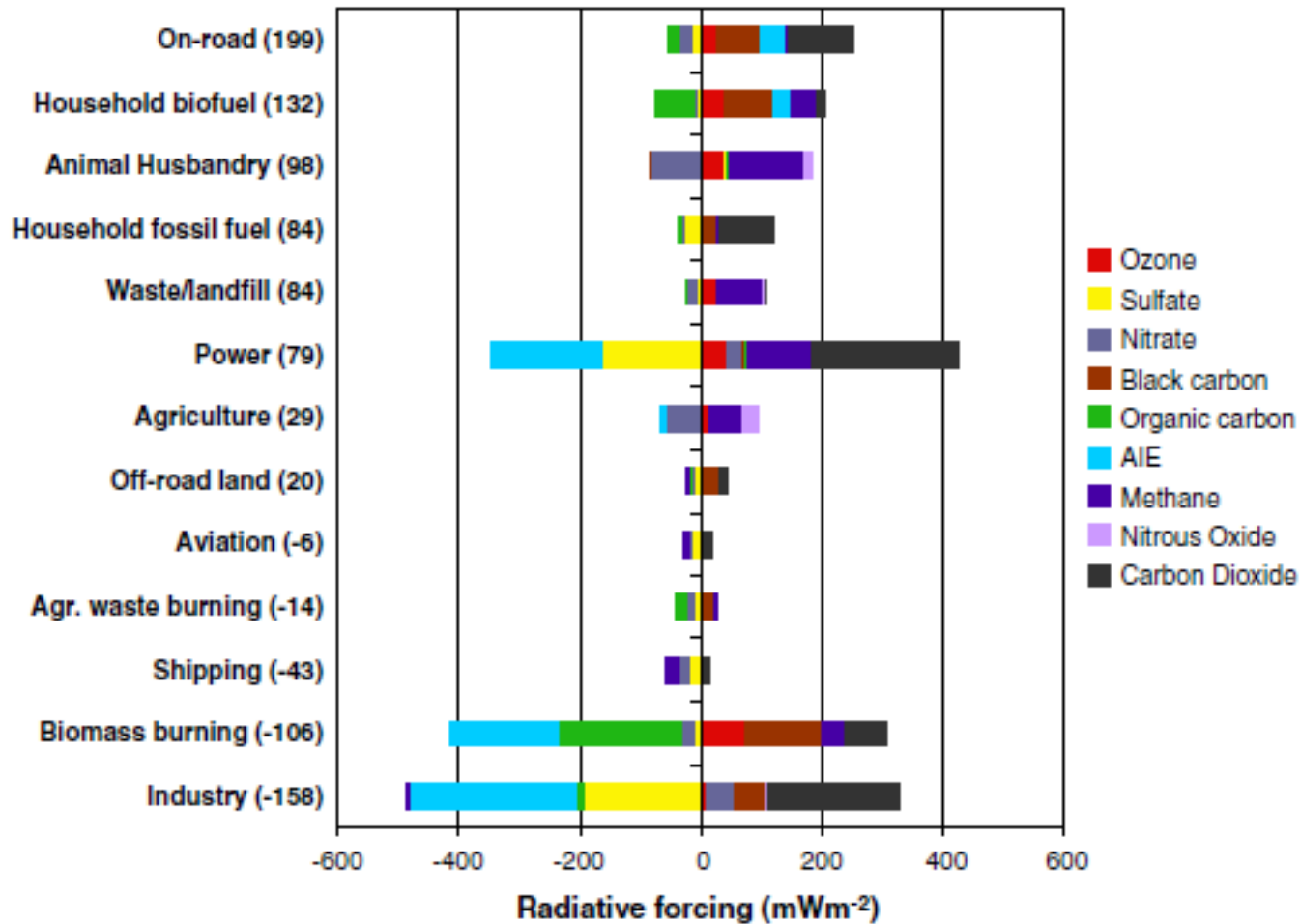
Per Capita CO₂ and Per Capita PM Emissions



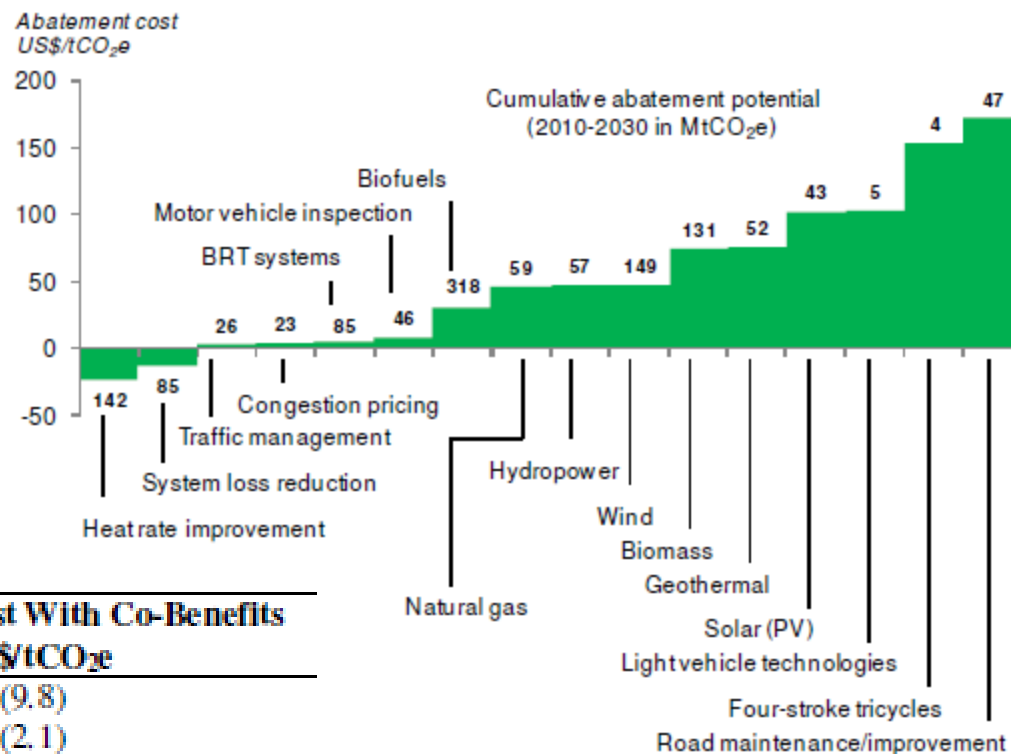
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Source: 2008. MOUD- Study on Traffic and Transportation Policies and Strategies in Urban Area. Analysis By CAI-Asia

Radiative forcing by sector by 2020



Abatement Cost and Cumulative Abatement Potential for the Power and Transport Sectors Philippines, 2010–30

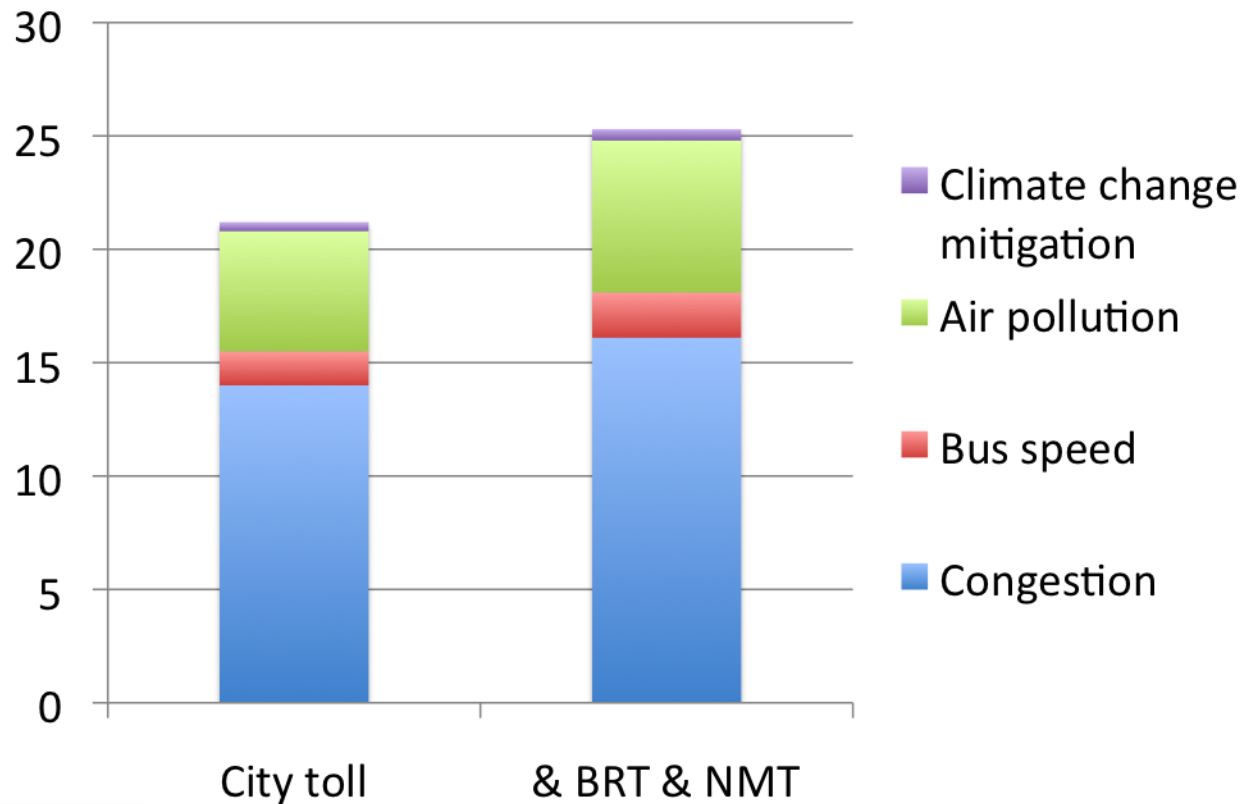


Transport Sector Options	Mitigation Cost With Co-Benefits US\$/tCO ₂ e
Biofuels	(9.8)
Road maintenance/improvement	(2.1)
Motor vehicle inspection	(5.0)
Congestion pricing	(0.2)
Public transport improvement	(19.8)
BRT systems (100 km)	(29.7)
LRT/MRT lines (46 km)	(33.8)



Co-benefits of Transport measures Beijing

Bill. RMB



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Source: Creutzig, Deakin 2009

Part 2

ASSESSMENT OF CURRENT STATUS OF CO-BENEFITS APPROACH



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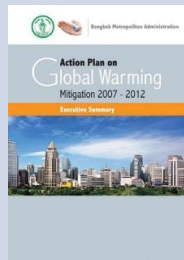
Current Status Co-benefits: Transport Policies

Type	Status (0 – 00000)	Climate Focus
Vehicle Emission Control policies	000	Some countries are working on fuel economy standards
Fuel Quality policies	000	Bio-fuel requirements ignore indirect land-use effects
Inspection and maintenance	0	Potential Fuel saving aspects are generally ignored
Public Transport policies	00	Climate not a driver, (neither is air pollution)
TDM	0	Climate not a driver (neither is air pollution)



Current Status: Climate Change policies

Type	Status (0 – 00000)	Transport (AP) Focus
Global Climate Policies (UNFCCC – Kyoto – Copenhagen Accord)	00	Generally sector neutral, co-benefits (still) not acknowledged
National Climate change Policies and Action Plans	000	Transport often takes lower priority than energy, power, industry sector. Lip service to air pollution
City based climate change action plans	0	Transport is part, limited reference to transport related air pollution



Current Status: Climate Modalities

Modality	Applicability to Transport (0 – 00000)	Co-benefits relevance
Clean Development Mechanism (CDM)	0 5 methodologies 3 projects	Very Limited, co-benefits are not validated by CDM Executive Board and not monitored
Global Environmental Facility (GEF)	00 \$ 185 million out of \$ 2.4 billion since 1999	Limited, developmental impact is important but in practice emphasis is on validation CO ₂ reductions
Climate Investment Fund (CIF)/Clean Technology Fund (CTF)	000 \$ 500 million out of \$ 1.7 billion since 2008	Very limited. No quantification of co-benefits
Nationally Appropriate Mitigation Measures	?	Detailed design criteria still to be developed



Current status: Development Organizations

Organization	Transport relevance (0 – 00000)	Co-benefits relevance
Asian Development Bank	00000	<ul style="list-style-type: none"> • Emphasis on road construction projects in lending • Project appraisal methodologies dominated by economic considerations, environmental externalities (both AP and climate change) not incorporated • Efforts underway to develop carbon foot printing of transport investments
World Bank	00000	
JICA/JBIC	00000	



Part 3

FROM CONCEPT TO PRACTICE



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Co-benefit Challenge: Integrate emerging processes at all Levels

Sustainable Development



Climate Policy Processes

Global Climate Talks (UNFCCC)

Regional / climate strategies

National climate action plans/strategies



Transport Policy Processes

MEET: Global Policy Discussions involving both developed and developing countries

Regional EST Forum + Asian Transport Ministers Forum

ASEAN Transport Senior Officials Meeting

National and Local Transport Policies and plans



Air Quality Policy Processes

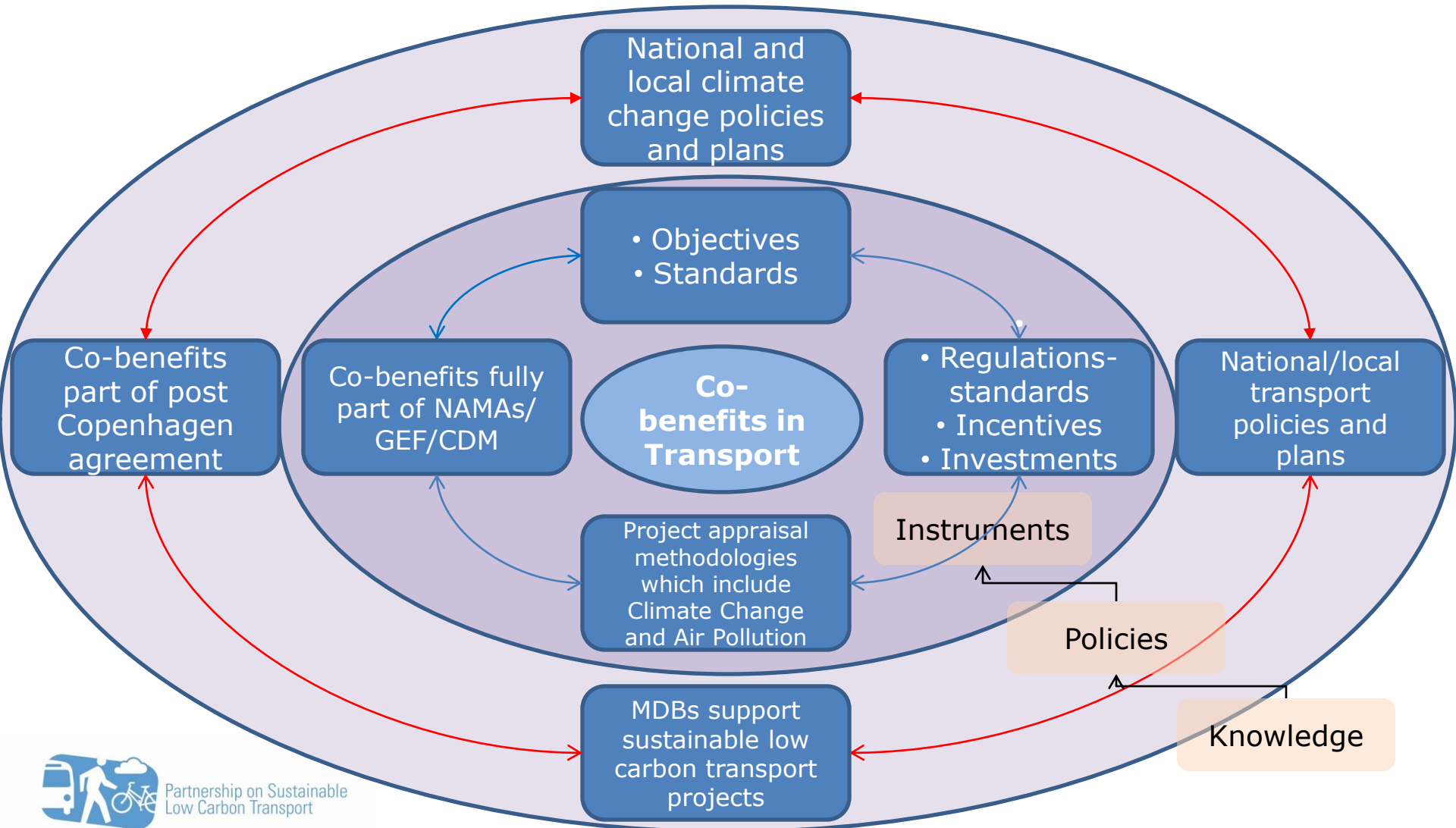
Global Air Quality Agreement

Regional Air Quality Agreement

National and local Air Quality Policies and Plans



Comprehensive Approach



Role Co-benefits Forum

- **Knowledge:** initiate, document and disseminate information on co-benefits in transport sector; at science, policy and practical level
- **Policies:** facilitate discussions on policy development at regional and national level, support development of “model” co-benefits policies at sector level
- **Instruments:** encourage the development of co-benefits approach within: NAMA MRV; MDB project appraisal methodologies; and appraisal of national and local government policies and investment programs





For more information:

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