

# Why Transport Sustainability is Fundamental to Sustainable Development: A Rio+20 Action Agenda



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Development Meeting, New York, December 15, 2011







**What kind of city for  
Danica May  
Camacho?**





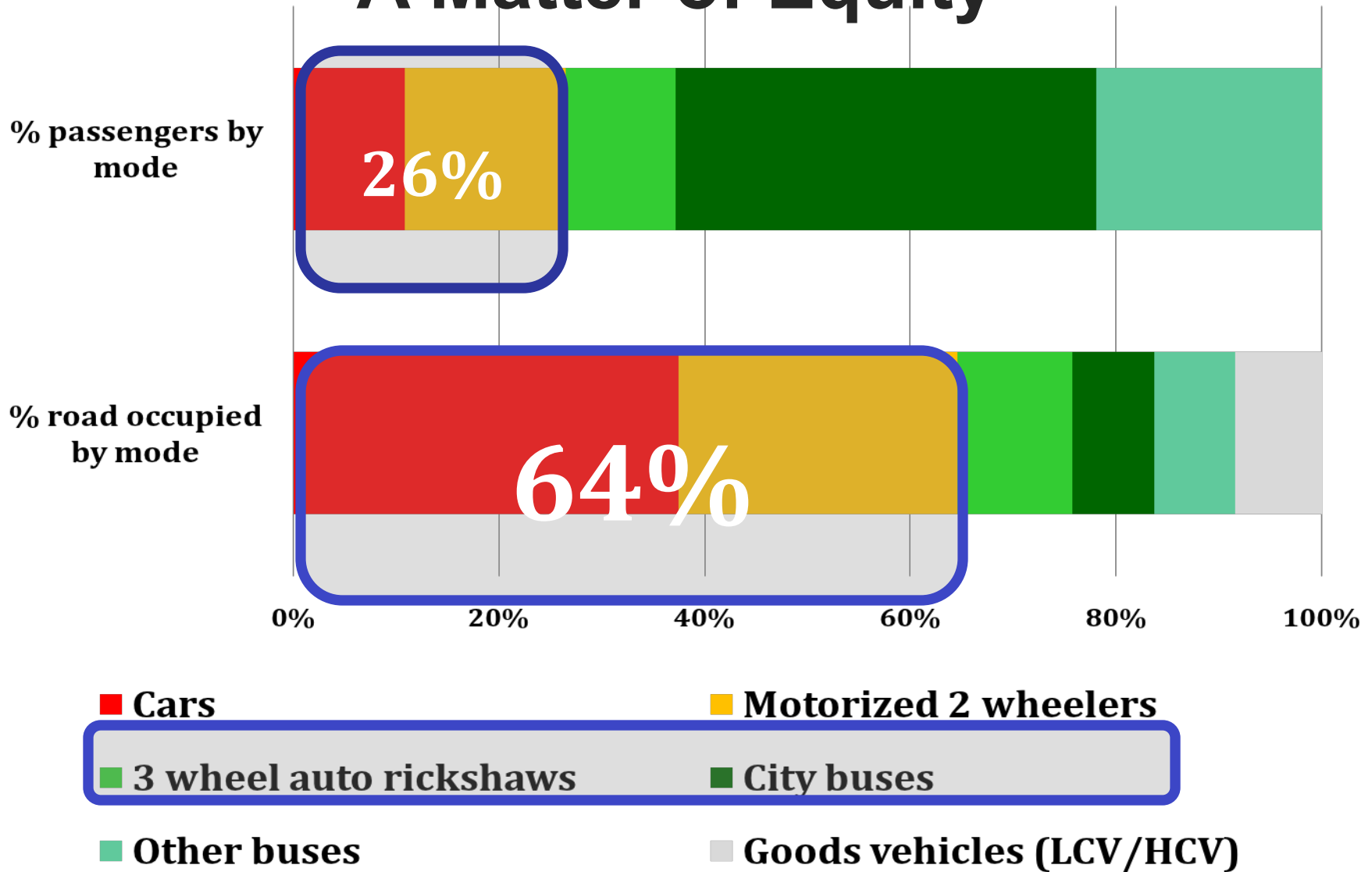








# A Matter of Equity



Use of Roadspace in Key Corridors, Chennai, India



- 1.8 billion cars
- 7 billion people
- 10 trips a day: walking or cycling account for  $> 1/3$
- 23 billion NMT trips/day far exceed number of motor vehicle trips







**Business-as-usual forecast:**

**By 2020, car ownership triples to over 2 billion, 1:4 people own a car**

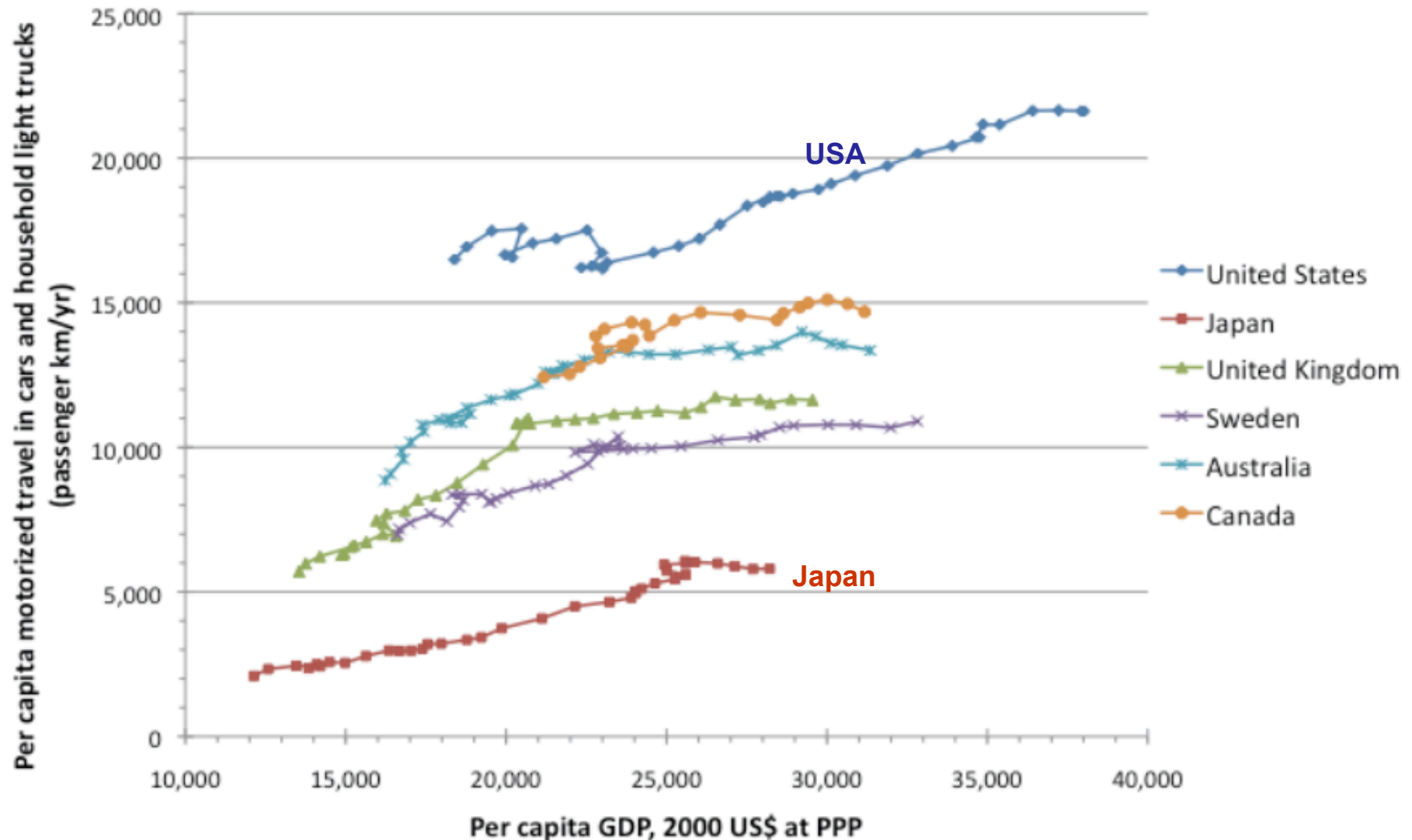


# Business As Usual: Unsustainable Transport

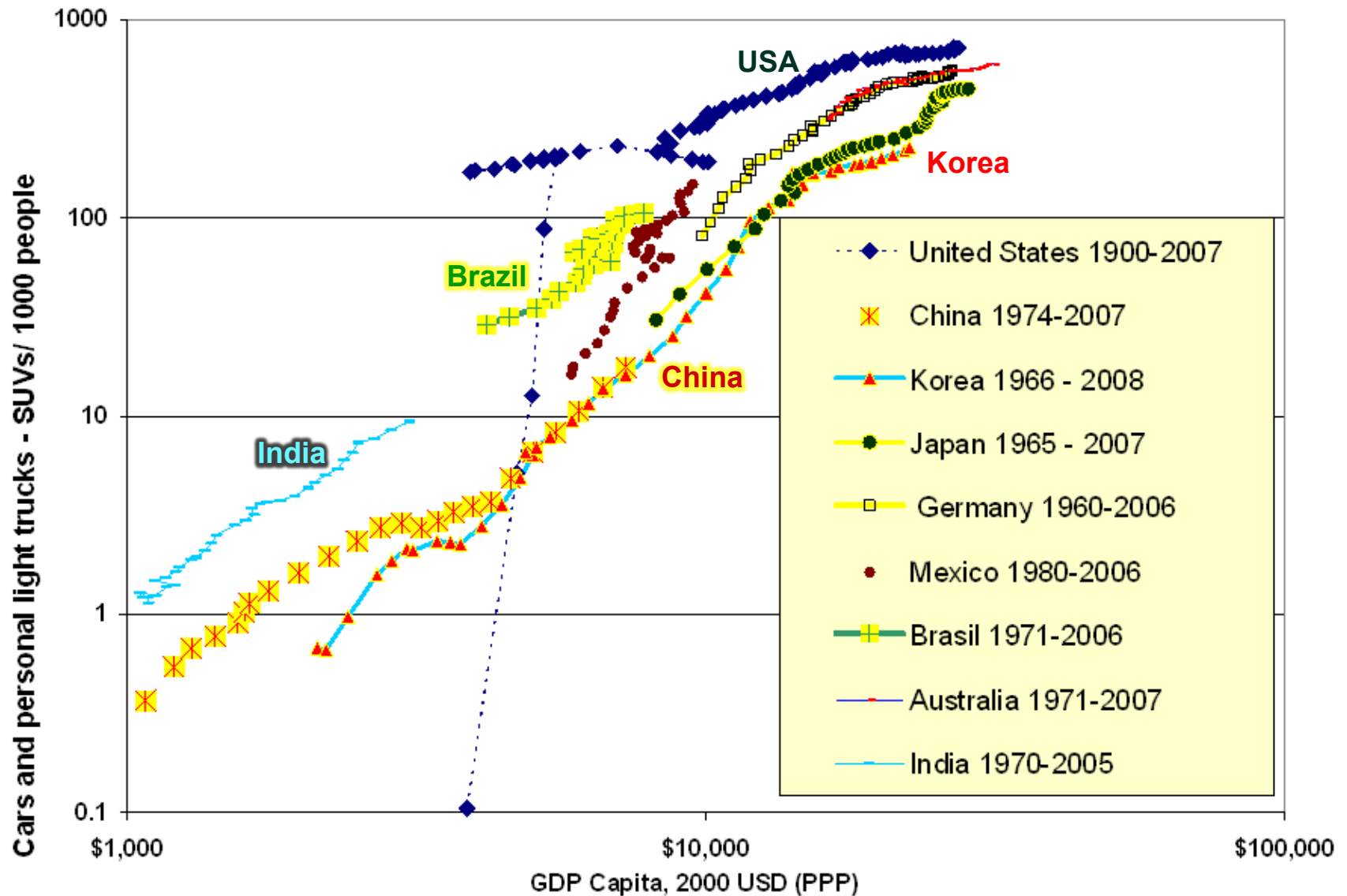
- By 2020 road fatalities, now 1.3 million/year (over 90% in developing countries, ½ are pedestrians & cyclists) *grow 80%* in low/mid-income countries
- By 2050 CO<sub>2</sub> emissions from transport *up 300%*
- Air pollution from transport contributes to premature deaths of at least *500,000 persons a year* in developing world



# Which path will developing countries follow?

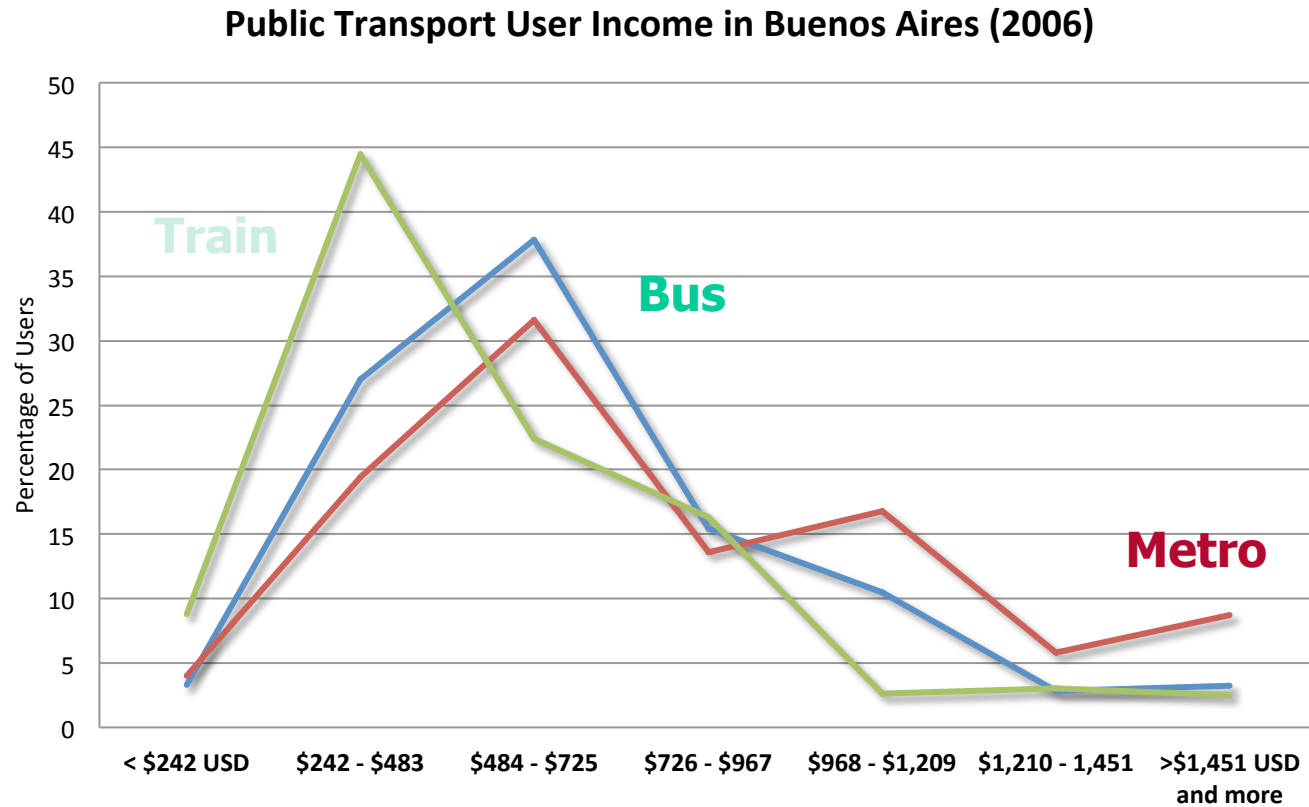


# Motorization grows with income, but not on a single path





# Public Transport Is Essential for Especially for the Poor







Source: Carlos F. Pardo



**Are transport  
services designed  
to meet the needs  
of women,  
children, the  
elderly &  
disabled?**



Photo: Carlos Pardo



Photo: Carlos Pardo

**and to  
protect  
public  
health  
and  
safety?**



Photo: Carlos Pardo



# Unsustainable Transport

- subsidies for motor fuel, parking
- emphasis on expansion of high speed motorways
- motor vehicles displace cyclists, pedestrians, public transport
- disorganized public transport
- unmanaged sprawl, urbanization
- high inequality of access
- low efficiency freight logistics





# Sustainable Transport

- support for quality public transport
- protected road space for buses, pedestrians, cyclists, public space
- rail or bus rapid transit organized in high demand corridors
- transit oriented development
- more equitable access for all
- high efficiency freight logistics



# The traditional modernistic planning approach

## Putting people last

Buildings



Traffic



Life ?

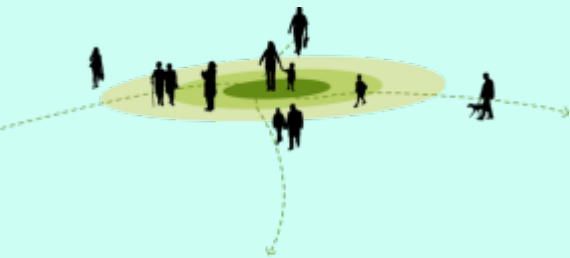




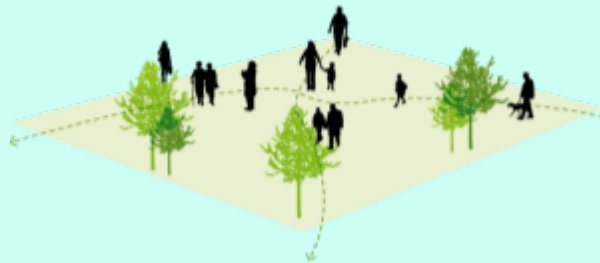
# The quality of life approach

## Putting People First

Life



Space



Buildings



# New sustainable transport paradigm: **AVOID – SHIFT- IMPROVE**

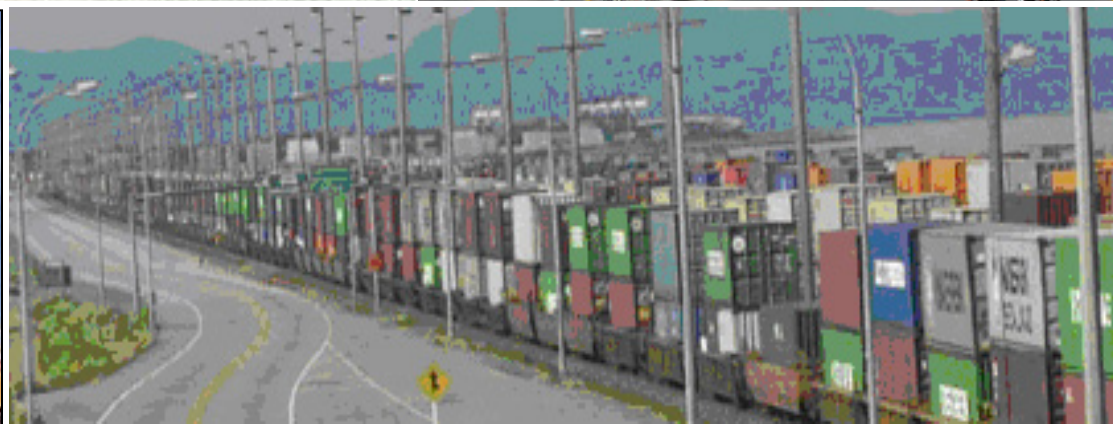
Avoid unnecessary or low value travel with smart pricing, development, logistics, supply chains, communications





# New sustainable transport paradigm: **AVOID – SHIFT- IMPROVE**

Shift travel to more efficient modes





# New sustainable transport paradigm: **AVOID – SHIFT- IMPROVE**

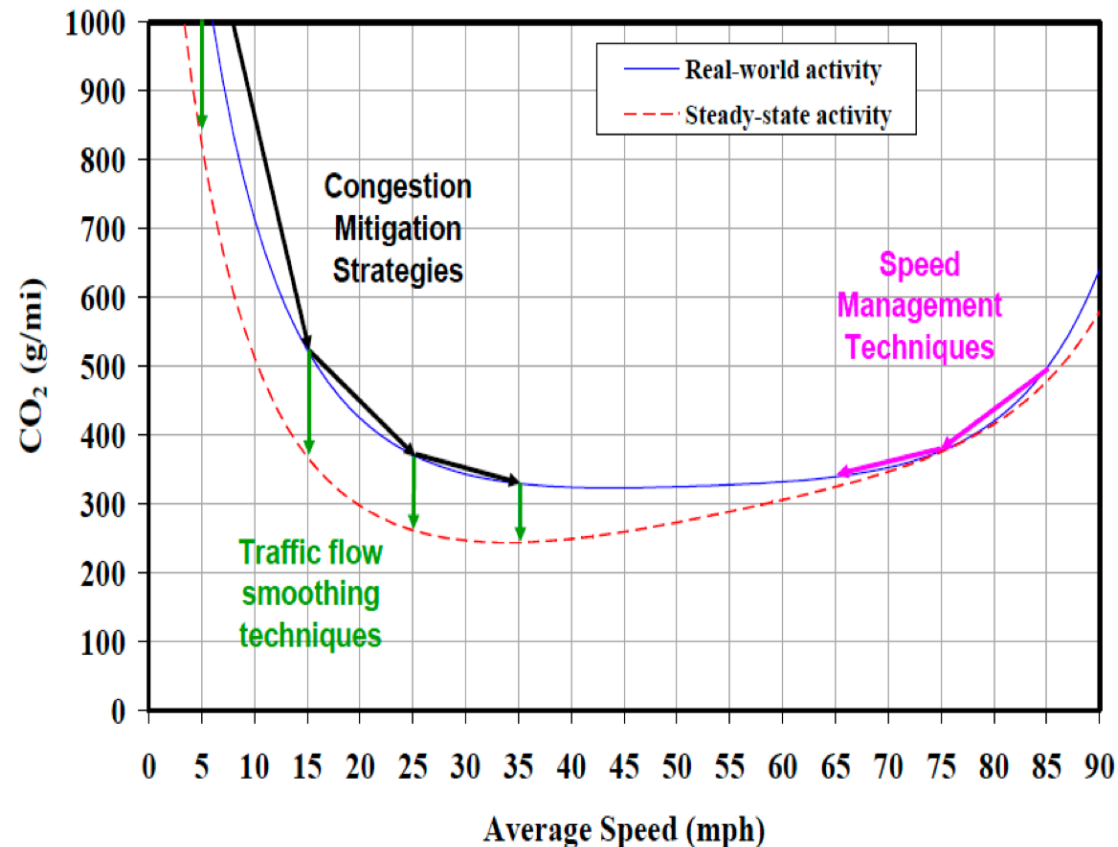
Improve efficiency by favoring more efficient, lighter, smaller, slower vehicles and lower carbon fuels

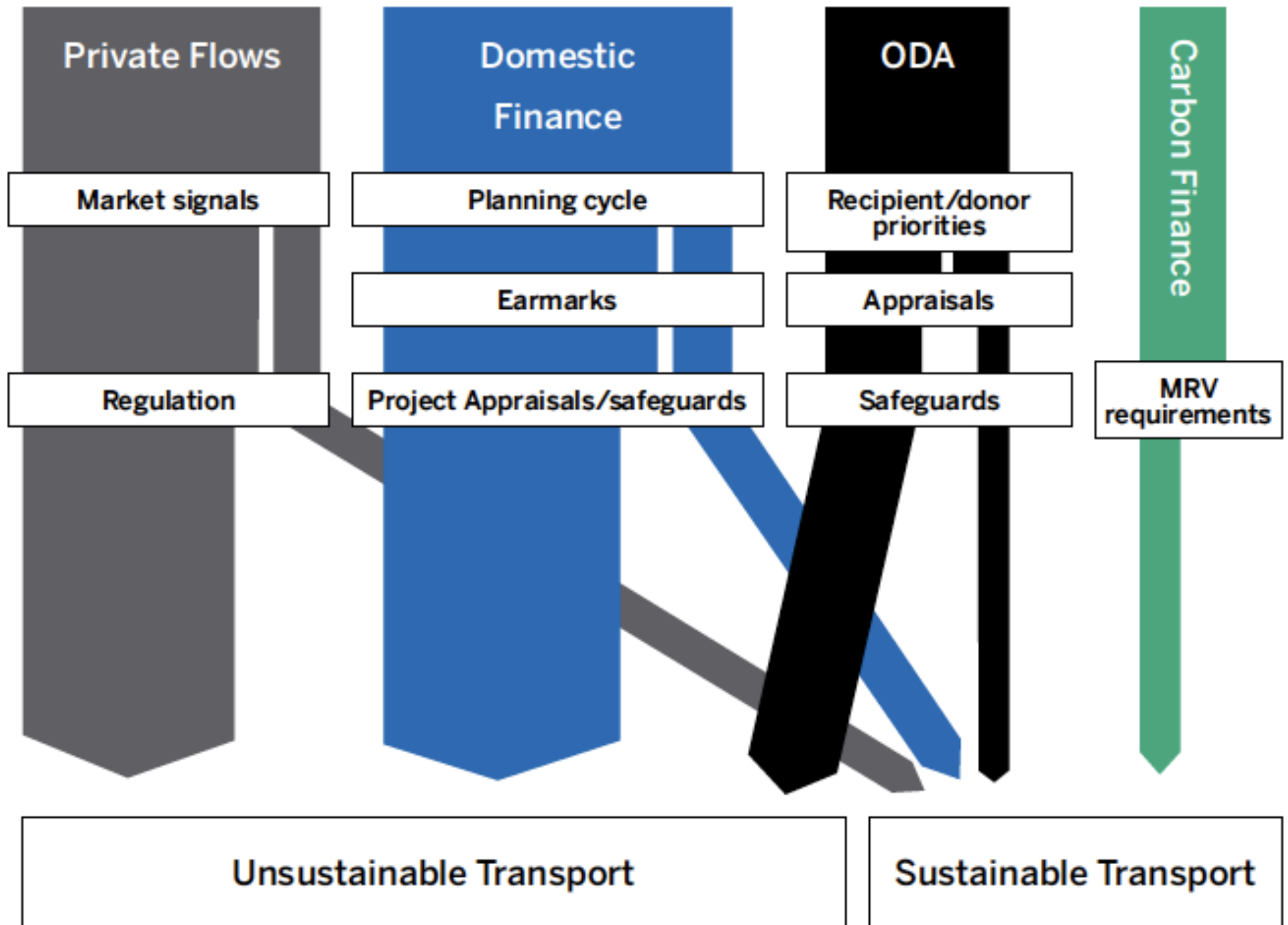




# New sustainable transport paradigm: **AVOID – SHIFT- IMPROVE**

Improve efficiency by operating transport networks with optimal speed & flow for remaining traffic







# Sustainable Transport at



**RIO+20**

United Nations Conference  
on Sustainable Development

# The SLoCaT Partnership

**Improve the knowledge on sustainable, low carbon transport, help develop better policies and catalyze their implementation**

**62 Members: International Organizations – Government – Development Banks – NGOs – Private Sector - Academe**

African Development Bank (AfDB) \* Alliance to Save Energy\* Asian Development Bank (ADB) \* Corporación Andina de Fomento (CAF) \*Believe Sustainability \* Cambridge Systematics Inc \* Center for Clean Air Policy (CCAP) \* Centre for Environment Planning & Technology (CEPT), Ahmedabad \* Center for Science and Environment (CSE) \* Center for Sustainable Transport (CTS) Mexico \* Center for Transportation and Logistics Studies (PUSTRAL), Gadjah Mada University \* Civic Exchange (CE) \* Clean Air Initiative for Asian Cities (CAI-Asia) Center \* Clean Air Institute (CAI) \* German Technical Cooperation (GIZ) \* Ecofys\* EMBARQ, The WRI Center for Sustainable Transport \* Energy Research Center Netherlands (ECN) \* European Bank for Reconstruction and Development (EBRD) \* European Cyclists' Federation (ECF)\* Fraunhofer- Institute for Systems and Innovation Research (ISI)\* Global Environmental Facility (GEF) \* Global Transport Knowledge Partnership (gTKP)\* HealthBridge\* Hong Kong Shanghai Bank (HSBC) \* Inter-American Development Bank (IDB) \* Interface for Cycling Expertise (I-CE) \* International Association for Public Transport (UITP) \* International Energy Agency (IEA) \* International Transport Forum (ITF) \* International Union for the Conservation of Nature (IUCN) \* International Union of Railways (UIC) \* Institute for Global Environmental Strategies (IGES) \* The Institute for Transport Studies, University of Leeds, UK\* Institute of Urban Transport India (IUTI)\* Institute for Transport Policy Studies (ITPS) Institute for Transport and Development Policy (ITDP) \* Institute of Transport Studies (ITS), University of California, Davis \* Korean Transport Institute (KOTI) \* Ministry of Land Infrastructure Transport and Tourism, Japan \* National Center for Transportation Studies (NCTS), Philippines \* Rockefeller Foundation \* Society of Indian Automotive Manufacturers (SIAM) \* Stockholm Environment Institute (SEI) \* Tehran Urban and Suburban Railway operation Company (TUSROC) \* The Energy and Resources Institute (TERI) \* Transport and Environment (T+E) \* Transport Research Laboratory (TRL) \* United Nations Center for Regional Development (UNCRD) \* United Nations Department for Economic and Social Affairs (UN-DESA) \* United Nations Environment Program (UNEP) \* University College of London, Department of Civil, Environmental and Geomatic Engineering \* University of Transport and Communication (UTCC) Hanoi \* University of Twente/ITC (UT/ITC) \* VEOLIA Transport \* World Street \* Wuppertal Institute\* WWF International

**[www.slocat.net](http://www.slocat.net)**



# SLoCaT Submission to Rio+20

## Adopt a Sustainable Development Goal specific to transportation:

*Achieve sustainable transport that enables universal access to safe, clean, and affordable mobility.*

1

Ensure global transport GHG emissions and transport sector fossil fuel consumption peak by 2020 and are cut by at least 40 % by 2050 compared to 2005 levels, while ensuring transport contributes to timely attainment of healthful air quality in all cities;

Support the Decade of Action for Road Safety (2011-20) and cut traffic-related deaths in half by 2025;

Ensure universal access to sustainable transport through support for safe, affordable public transport and safe, attractive facilities for walking and bicycling;

## Strengthen institutional arrangements to advance sustainable transport.

2

## Endorse + encourage voluntary country actions for sustainable transport.

3

Supported by: ADB, BtG, CTS-Mexico, CAF, CAI-Asia, ECN, ECF, GIZ, GUD, IADB, ICE, IEA, ITDP, SEI, TRL, UITP, UT, Veolia-Transdev and ICCT



UNCED: United Nations Conference on Environment and Development  
Rio de Janeiro, 1992  
Agenda 21

**Transport referenced in Agenda 21 but did not spark-off wide spread action on Sustainable Transport**



WSSD: World Summit on Sustainable Development  
Johannesburg, 1992  
Johannesburg Plan of Implementation

**Transport referenced again, increased focus on sustainable transport since 2005/2006**



**RIO+20**  
United Nations Conference  
on Sustainable Development

UNCSD: United Nations Conference on Sustainable Development  
Rio de Janeiro, 2012  
Themes: Green Economy and Institutional Frameworks

**Transport not one of 7 major themes, but we need Rio+20 for scaling up sustainable transport  
SDG on Transport**



## Transport

## Millenium Development Goals



Eradicate extreme poverty and hunger



Achieve Universal primary education



Promote gender equality and empower women



Reduce Child Mortality



Improve Maternal Health



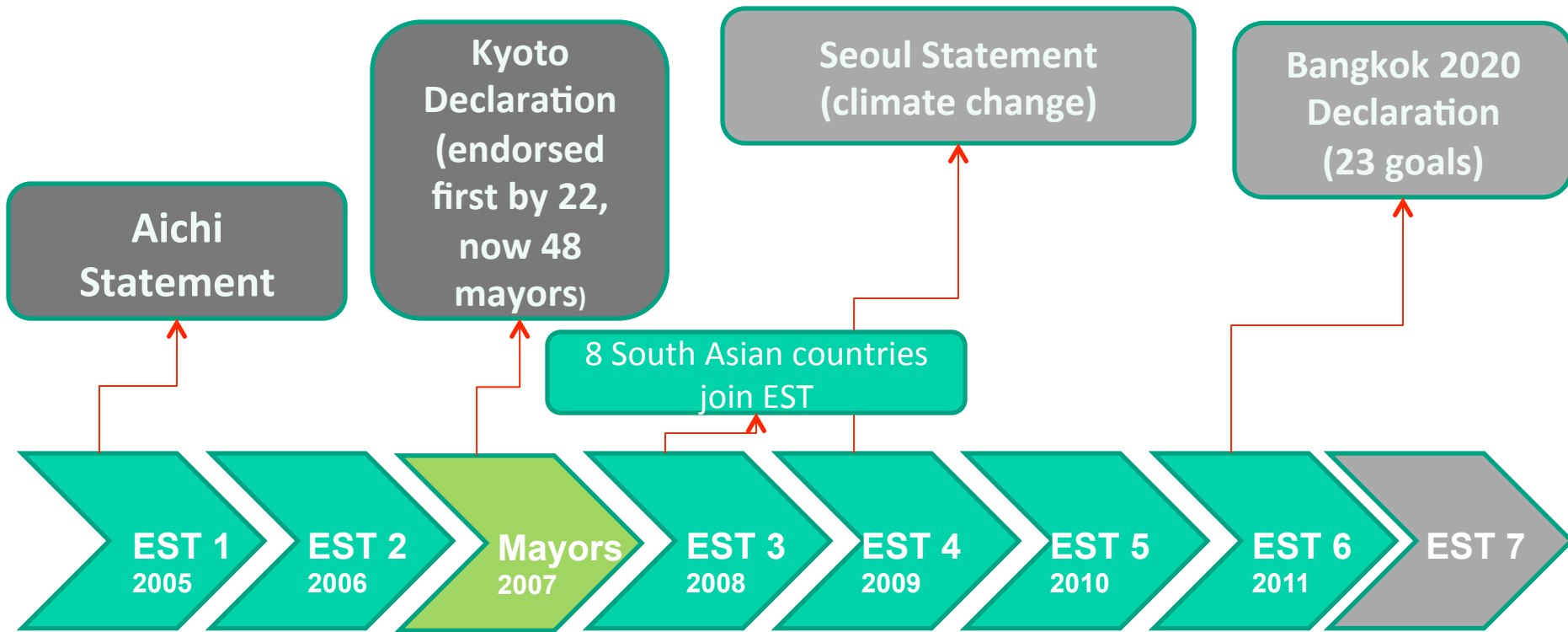
Combat HIV/AIDS, Malaria and other diseases



Ensure Environmental Sustainability



Develop a Global Partnership for Development



Awareness Raising on Sustainability Transport in Asia

Development Avoid-Shift-Improve Approach: Pilot testing

Development Banks start shifting funding to Sustainable Transport.

Development of Sustainable Transport related assessment tools

SLoCaT pulls together transport community



## Building blocks For Sustainable Transport

Awareness + analysis on  
lack sustainability

Avoid-Shift-Improve  
Paradigm

Shift in Development Banks

EST Process  
Bangkok 2020 Declaration

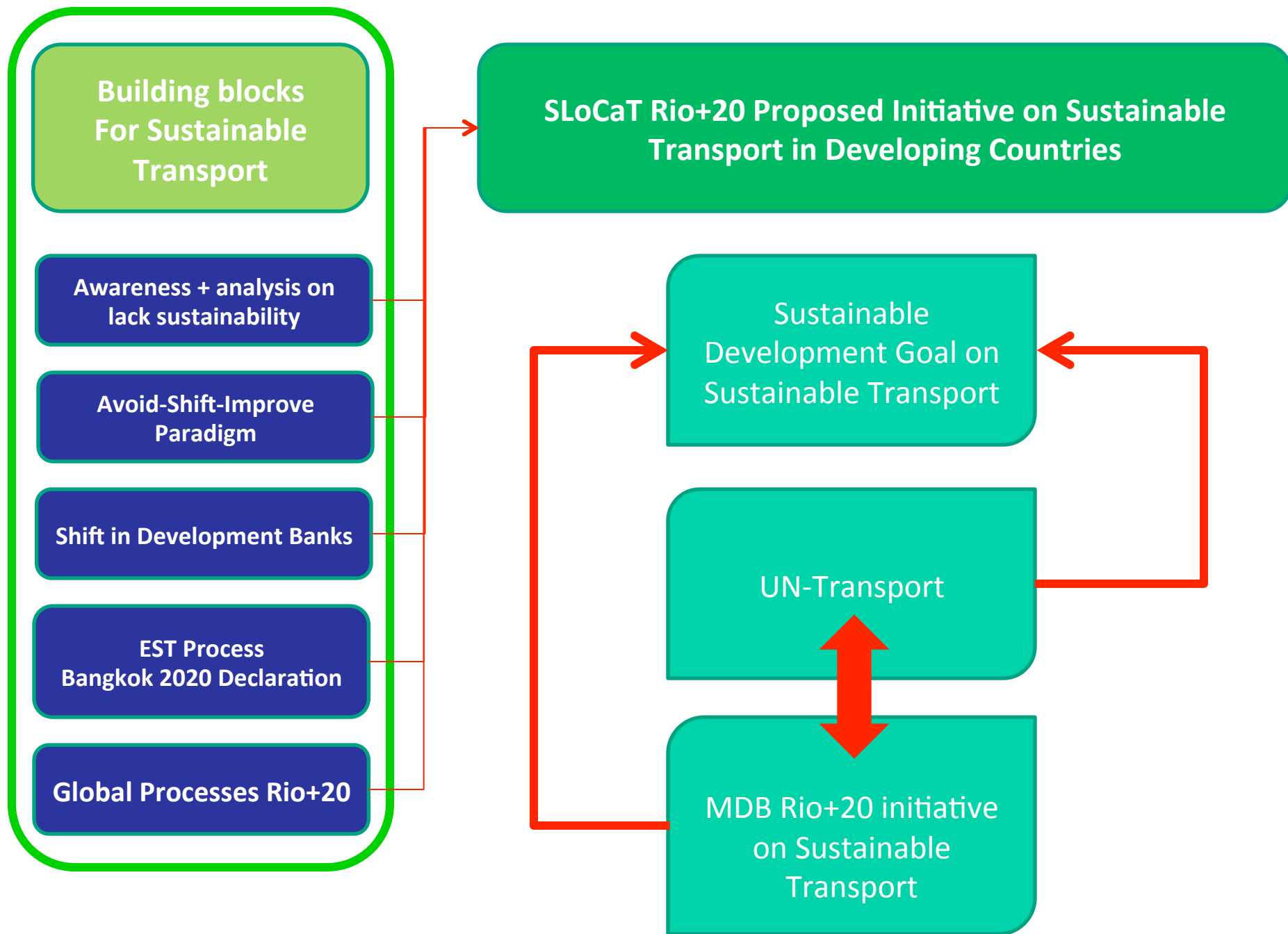
Global Processes Rio+20

## SLoCaT Rio+20 Proposed Initiative on Sustainable Transport in Developing Countries

Sustainable  
Development Goal on  
Sustainable Transport

UN-Transport

MDB Rio+20 initiative  
on Sustainable  
Transport



**Compilation document  
(647 submissions)**

**Transport Details Rio+20  
Submissions**

**2nd. Intersessional  
15-16/12/2011**

Half of countries mention transport

**Zero Draft outcome document  
January 2012**

Sustainable Transport  
Road safety special attention

**3 rd. Intersessional  
26-27/3/2011**

Search Results for "Transport" (1,122 occurrences in 246 submissions)

Linkage with MDGs and Green  
Economy not well articulated

**Informal  
negotiations**

Passenger transport not freight

**3rd. Prepcom  
13-15/6/2012**

Green Economy requires funding  
and capacity building assistance

**Rio+20  
20-22/06/2012**

- Transport Research Foundation (TRF)
- Rio+20 Earth Summit Sustainable Cities Working Group
- Partnership on Sustainable, Low Carbon Transport
- Ateliers Terre
- An Taisce The National Trust for Ireland
- Commission for Global Road Safety
- Icelandic Cyclists' Federation
- International Union of Railways (UIC)
- Japan
- Automobile Club of Moldova
- FIA Foundation
- Ghana
- Brazil

(15 occurrences)



UN- Agencies

UN-DESA

Regional Commissions

## UN Transport

Strengthen coordination and coherence among UN agencies, including Regional Commissions on sustainable transport

Provide information, build knowledge, collaborate in defining sustainability

Set global agenda on sustainable transport

Conduct & engage in regional EST policy dialogs

Resource mobilization

UN Transport  
"Light"

Or

UN Transport  
"Medium"

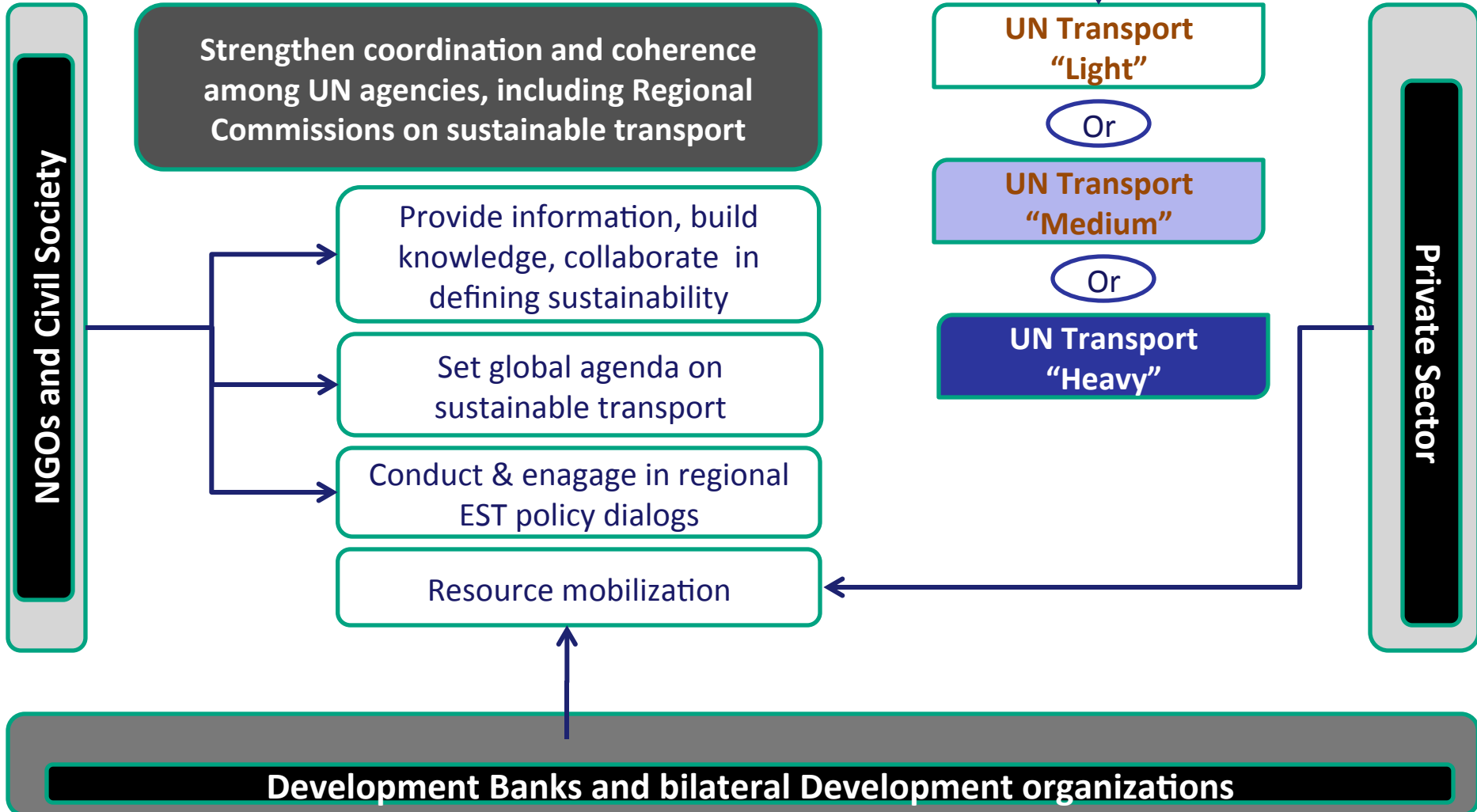
Or

UN Transport  
"Heavy"

NGOs and Civil Society

Private Sector

Development Banks and bilateral Development organizations



Name	Total Annual (2010) lending	Annual (2010) Transport lending
<b>Multilateral Development Banks</b>		
African Development Bank	• UA 4.1 billion (~\$ 6.15 billion)	UA 1.2 billion (~\$ 1.8 billion) transport
Asian Development Bank	•	•
European Bank for Reconstruction and Development	•	• € 1
European Investment Bank	•	•
Inter-American Development Bank	•	•
Islamic Development Bank	•	•
Latin American Development Bank (CAF)	• \$10.5 billion total lending	• \$ 4.3 billion transport
Development Bank for Southern Africa	•	
World Bank	•	
<b>Bilateral Development Bank</b>		
Agence France de Developpement	•	
Japan International Cooperation Agency	•	
Kreditanstalt fuer Wieder Aufbau	• €4.4 billion	• € 0.8 billion (estimate only)

**Total Lending:**  
About \$ 130-\$ 150 billion per year

**Transport lending:**  
About \$ 30 billion per year

**Suggested Rio+20 Pledge:**

1. Mainstream Sustainability in continued Road lending
2. Pledge xx amount for sustainable transport



Transport & urban development that is vibrant,  
people-friendly, and integrated with transit...







costs less than car-dependent  
development  
& enhances equitable growth,  
building a green economy





**our cities ourselves**  
THE FUTURE OF TRANSPORTATION IN URBAN LIFE



**ITDP**

Institute for Transportation  
& Development Policy

Promoting Sustainable and Equitable  
Transportation Worldwide

[itdp.org](http://itdp.org)

[ourcitiesourselves.org](http://ourcitiesourselves.org)

