

ITDP

Institute for Transportation
& Development Policy

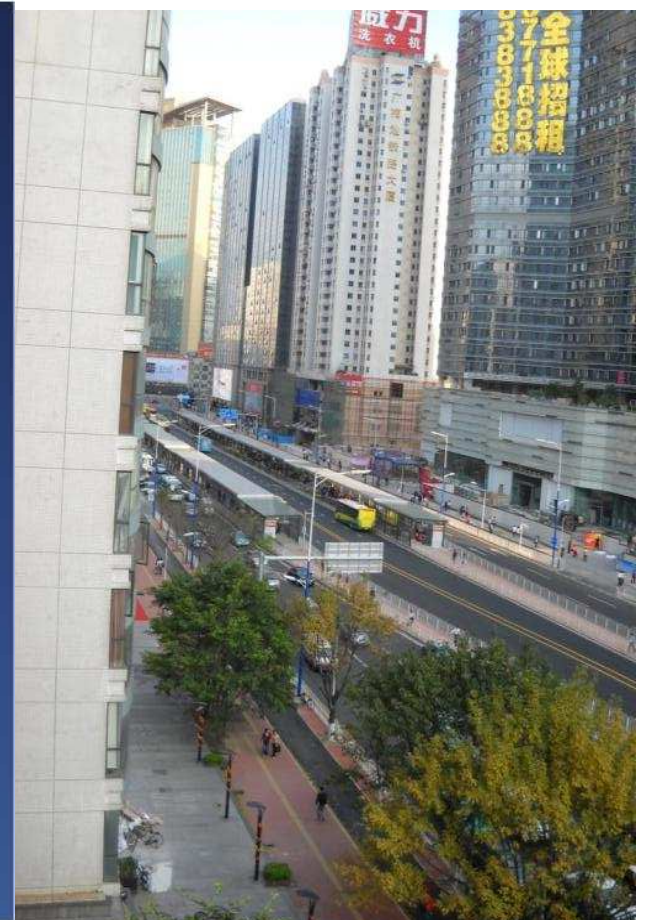
Sustainable Low Carbon Transport Policy: Opportunities for Action

**by Michael Replogle, Global Policy Director and Founder
Institute for Transportation and Development Policy**

**May 4, 2011
Learning Centre, CSD-19
Commission on Sustainable Development
United Nations, New York**

To boost transportation operational efficiency: **AVOID – SHIFT- IMPROVE**

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



To boost transportation operational efficiency: **AVOID – SHIFT- IMPROVE**

Shift travel to more efficient modes



To boost transportation operational efficiency: **AVOID – SHIFT- IMPROVE**

Improve efficiency with more efficient vehicles and
lower carbon fuels



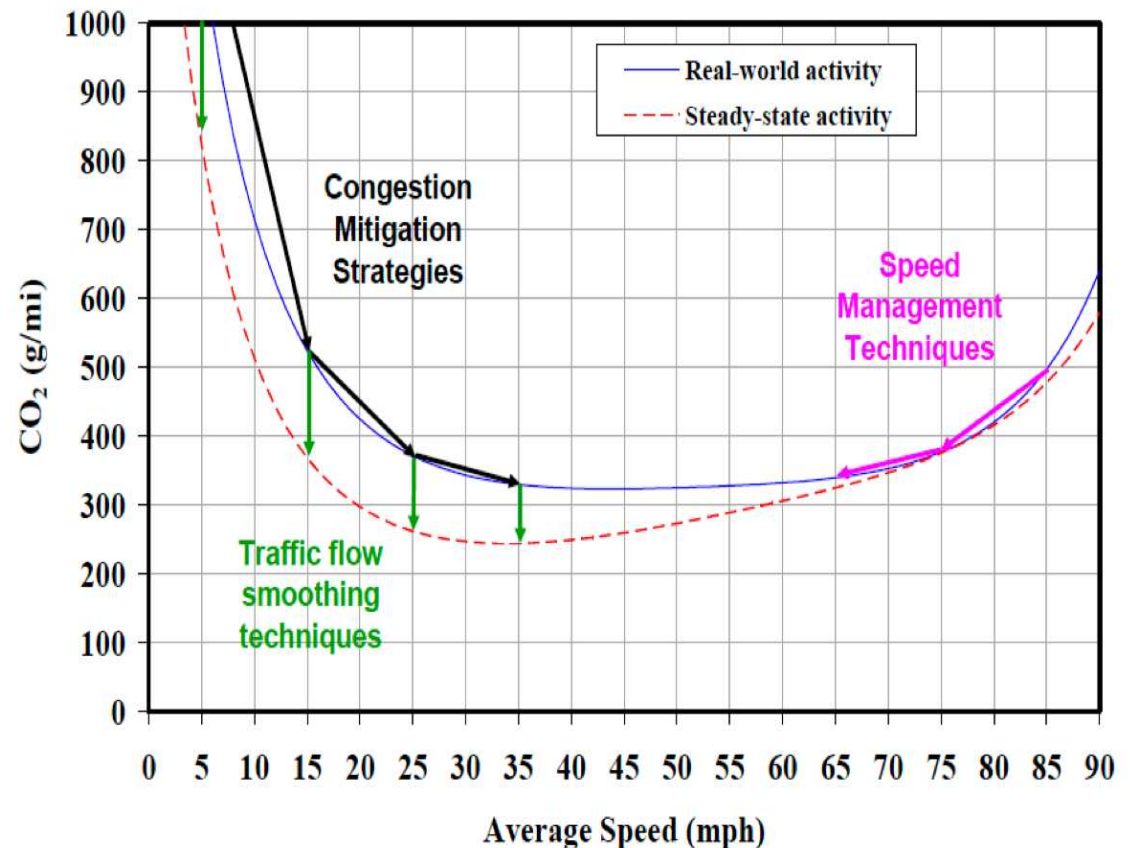
To boost transportation operational efficiency: **AVOID – SHIFT- IMPROVE**

Improve efficiency by operating networks with optimal
speed & flow

Guangzhou

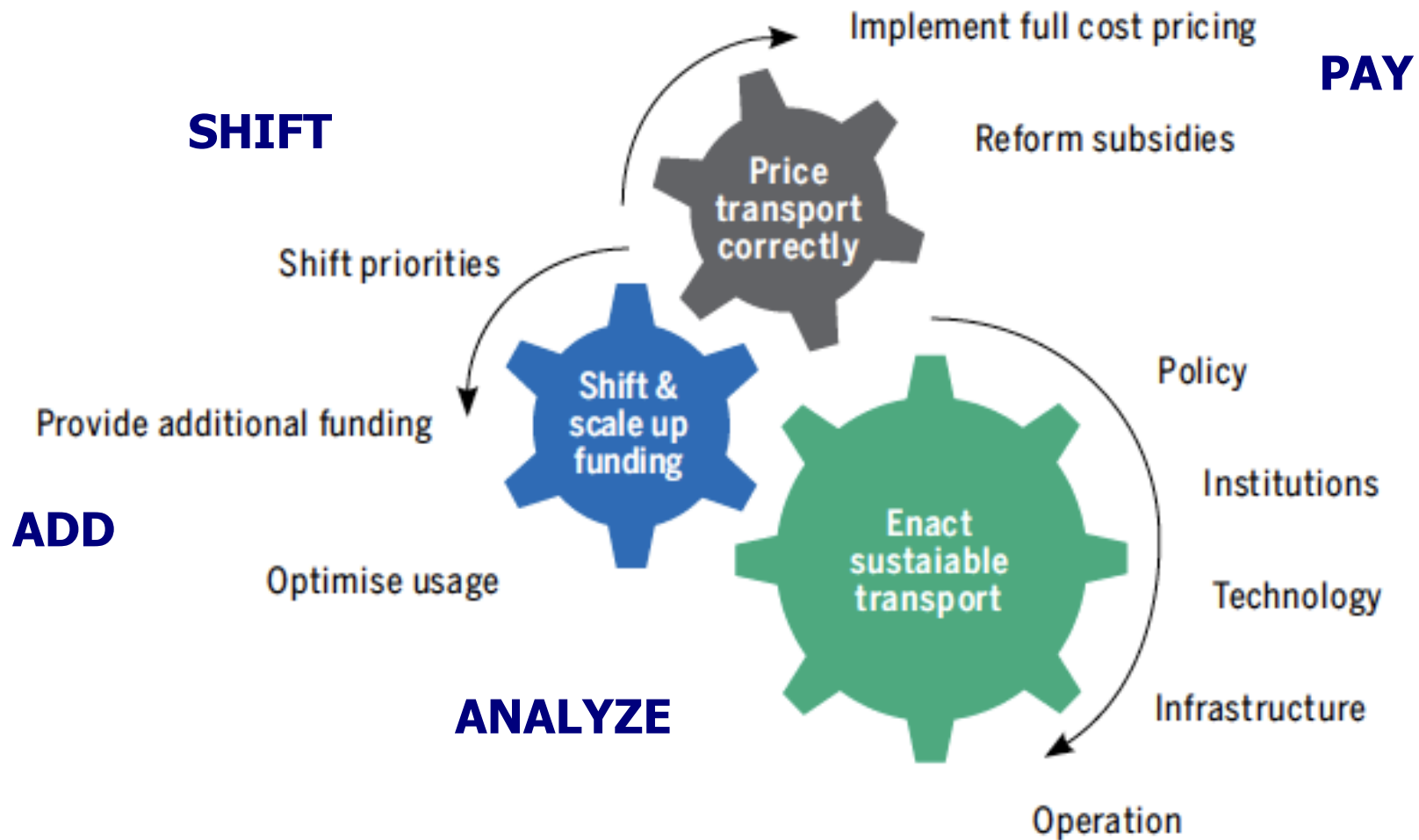


Stockholm



Source: M. Barth and K. Boriboonsomsin. 2008. Real-World CO₂ Impacts of Traffic Congestion. Transportation Research Record. Volume 2058

Actions to Advance Sustainable Transport



To replicate & scale up sustainable low-carbon transport:



Project
level



Plan &
Region



National
& Global

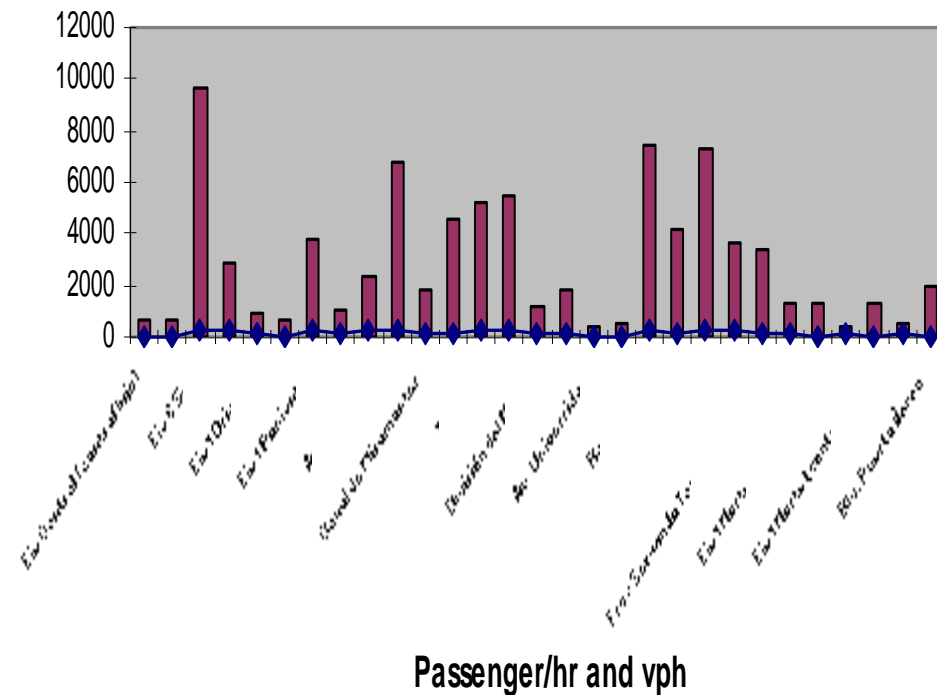
Enhance institutional frameworks & organizational capacity at multiple levels

Age Group	Percentage
18-24	~2%
25-34	~45%
35-44	~35%
45-54	~25%
55-64	~15%
65-74	~10%
75-84	~5%
85+	~2%

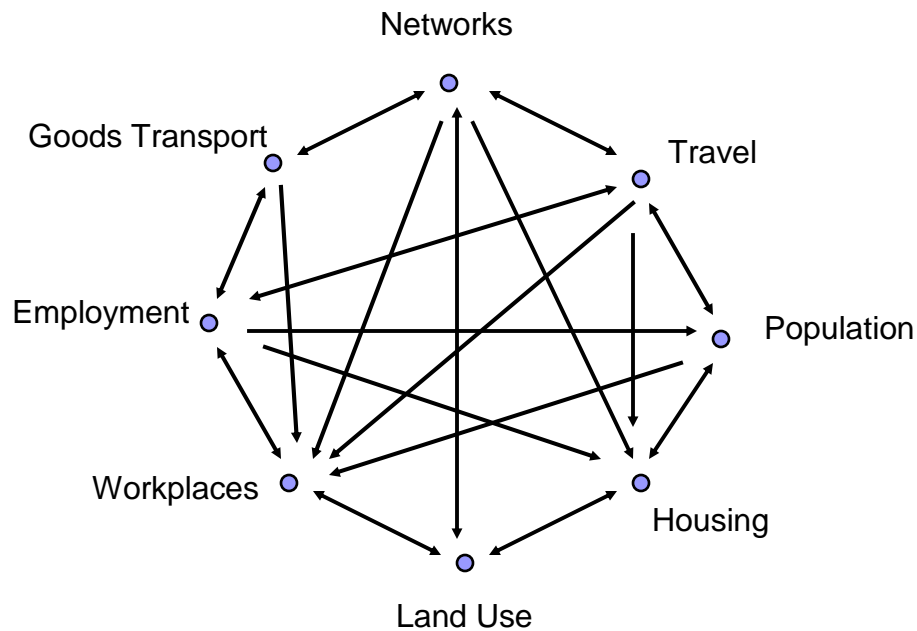
■ Motor vehicle fleet activity based on trends:

- ❑ Mode share and vehicle activity
- ❑ Travel surveys
- ❑ Bus company ridership
- ❑ Traffic counts
- ❑ Vehicle sales data
- ❑ Motor fuels sales data
- ❑ Vehicle operating speed
- ❑ GPS data loggers and vehicle monitors

2007 peak passenger counts - Mexico City



To replicate & scale up sustainable low-carbon transport: Improve transport analysis



Source: Wegener, 1995



Develop & enhance sketch analysis tools for impact analysis

e.g. Framework for Transportation Emissions Evaluation Models for Projects (TEEMP)*

- Excel spreadsheet models with simple input/output tables
- Project-type specific models
- Automated project impact area definition
- Simplified construction emissions
- Operations emissions including induced travel effects, with dynamic baseline



* These sketch analysis tools are now available on the Asian Development Bank website <http://www.adb.org/evaluation/reports/ekb-carbon-emissions-transport.asp>.

Support technology transfer for system management



Boost efforts to measure and reward performance



Bogota's success



Manage, allocate, and price street space to favor affordable low-carbon sustainable transport



Address Market Failures

- “Free” roads & parking
- Fixed cost vehicle insurance pricing
- Motor fuel subsidies
USD\$300 billion/year
- Land development & urban design systems promoting car use



Strengthen Knowledge Management and partnerships to support dissemination of sustainable low carbon transport



Partnership on Sustainable
Low Carbon Transport



ITDP

Institute for Transportation
& Development Policy

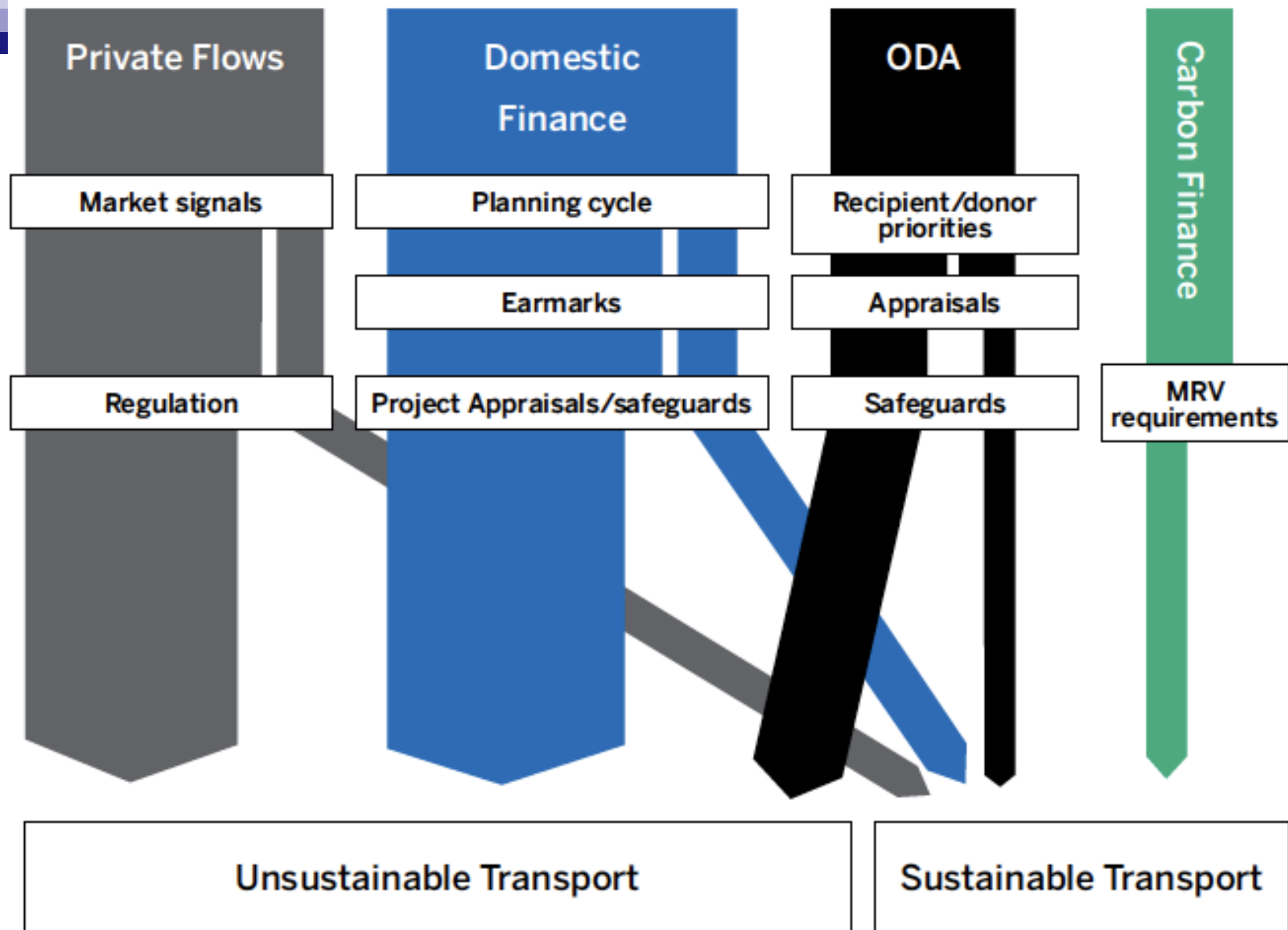


IDB



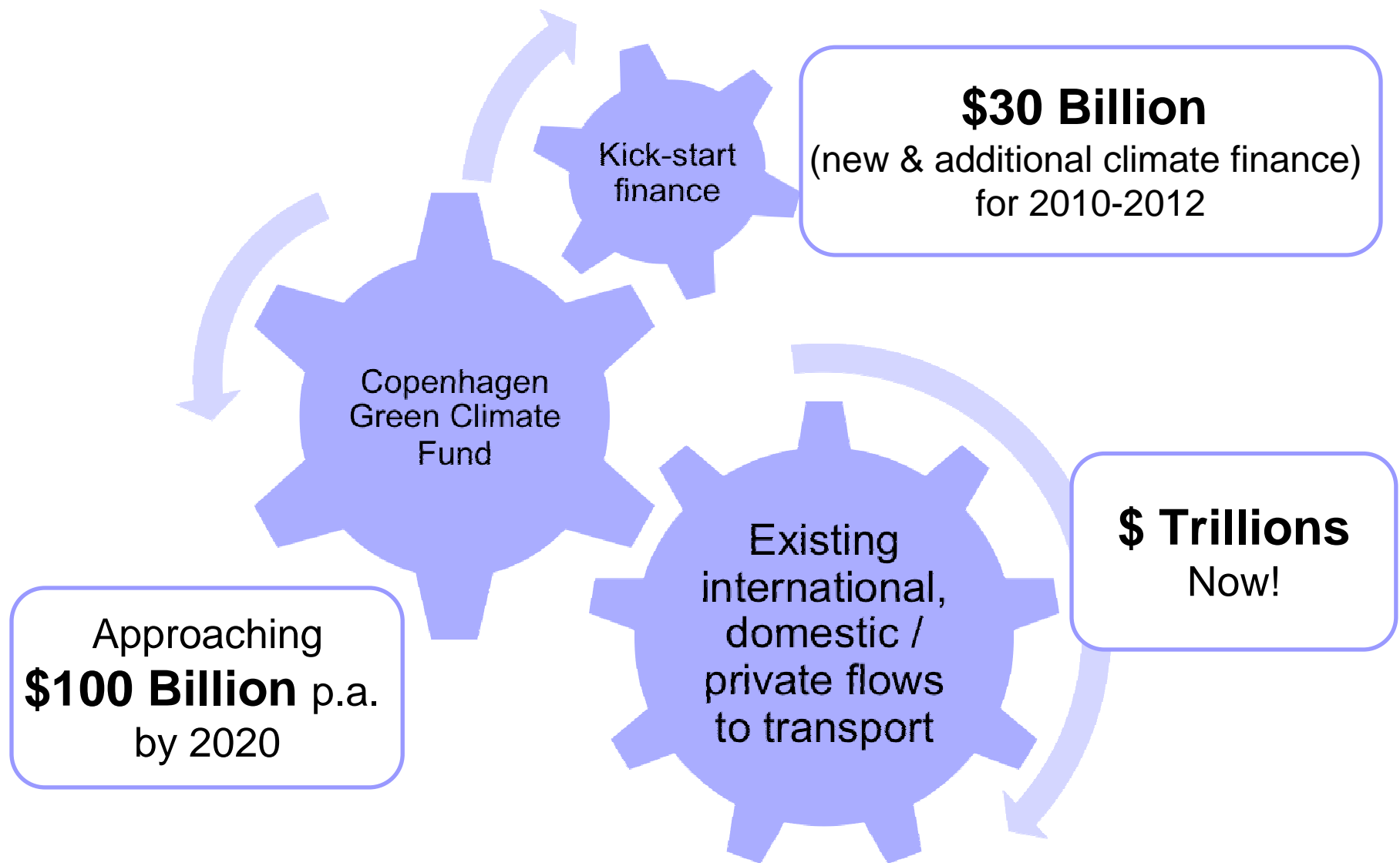
Bridging the gap

Pathways for transport in the post 2012 process



Boost accountability for spending

Transport and Climate Finance

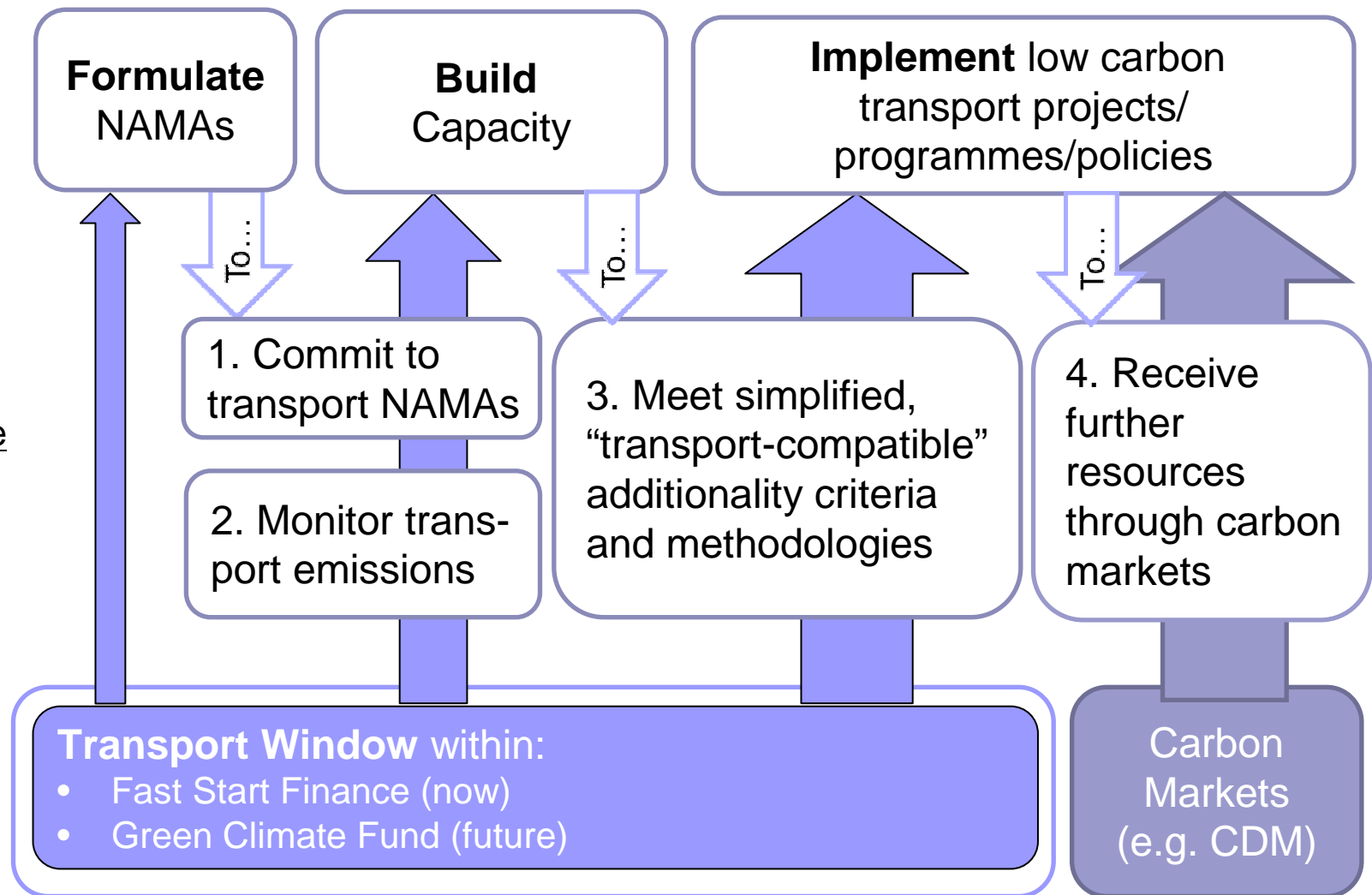


REST: Reducing Emissions through Sustainable Transport

A. Supporting Sustainable Transport

B. Under simple conditions

C. Through a Transport Window



Partnerships to Finance the New Vision: ASAP

ANALYZE

The impacts of financing decisions on sustainability

SHIFT

Existing resources toward a sustainable direction

ADD

Increased funding for areas where resources are lacking

PAY

For the full costs of transport including environmental depreciation



Success depends on

- Policy & regulatory reforms
- Infrastructure development & management
- Enhanced institutions & finance systems





Michael Replogle
Institute for Transportation and Development Policy
1210 18th Street NW, 3rd Floor, Washington, DC 20036
mreplogle@itdp.org
+1.212.629.8001

www.itdp.org

