

Green Freight Collaboration

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**Realizing the Rio+20 Momentum on
Sustainable Transportation**

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**CLEAN AIR
ASIA**



About Clean Air Asia



Mission: to promote better air quality and livable cities by translating knowledge to policies and actions that reduce air pollution and greenhouse gas emissions from transport, energy and other sectors.

Clean Air Asia was established as the premier air quality network for Asia by the Asian Development Bank, World Bank and USAID in 2001, and operates since 2007 as an independent non-profit organization.



**Air Quality and Climate
Change Program**



**Low Emissions Urban
Development Program**

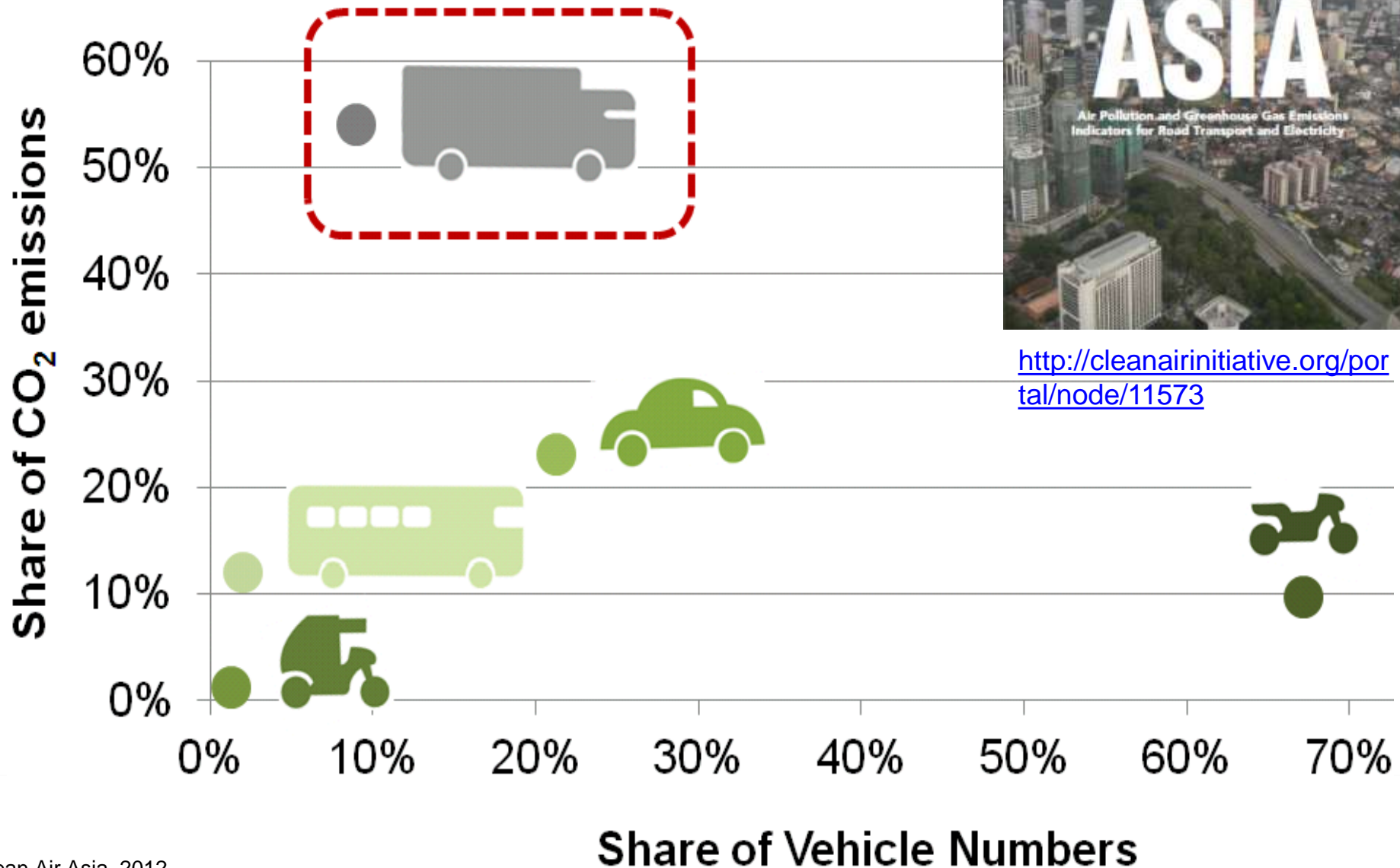


**Clean Fuels and
Vehicles Program**



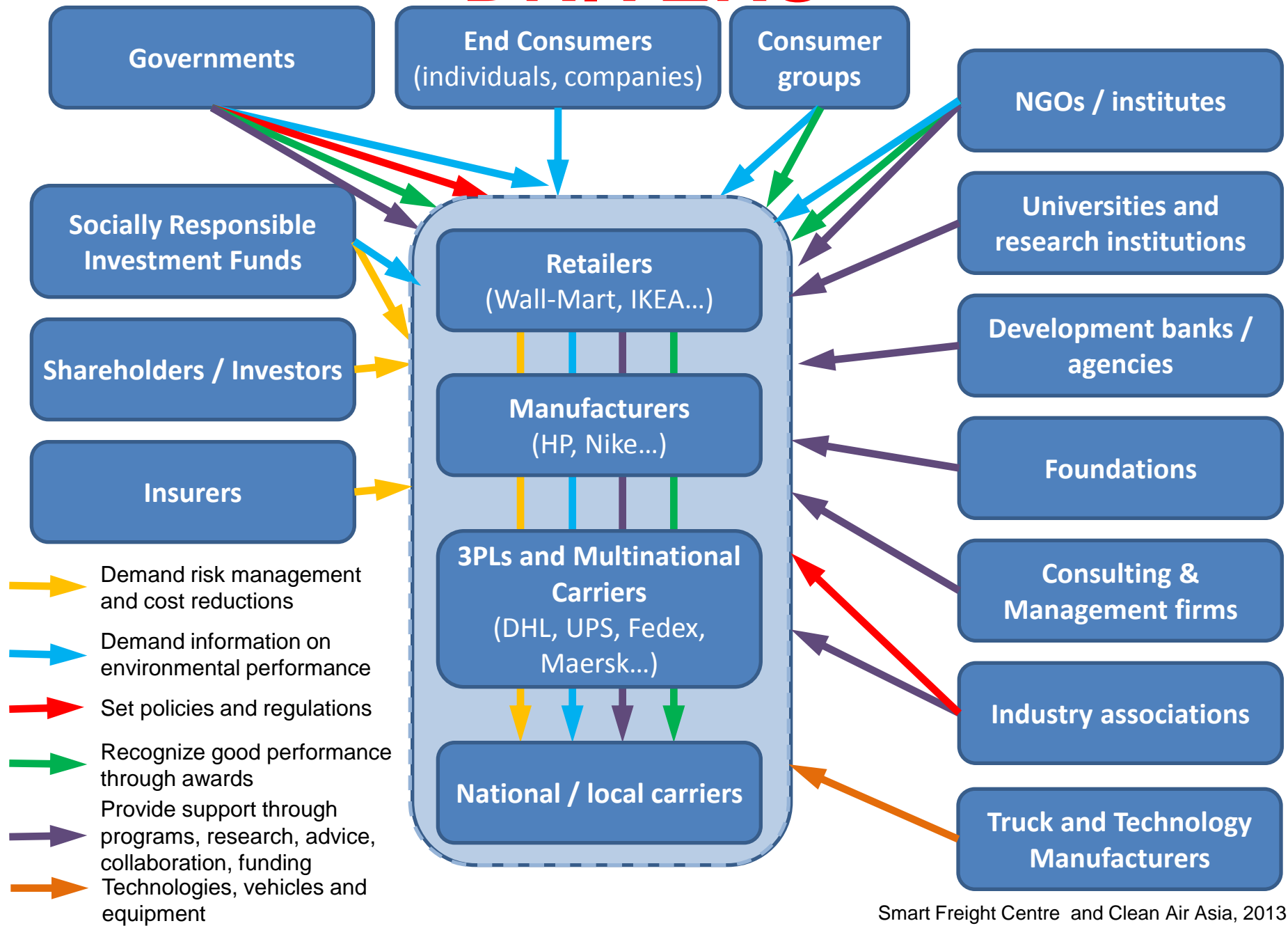
**Green Freight and
Logistics Program**

Why Green Freight & Logistics?






<http://cleanairinitiative.org/portal/node/11573>

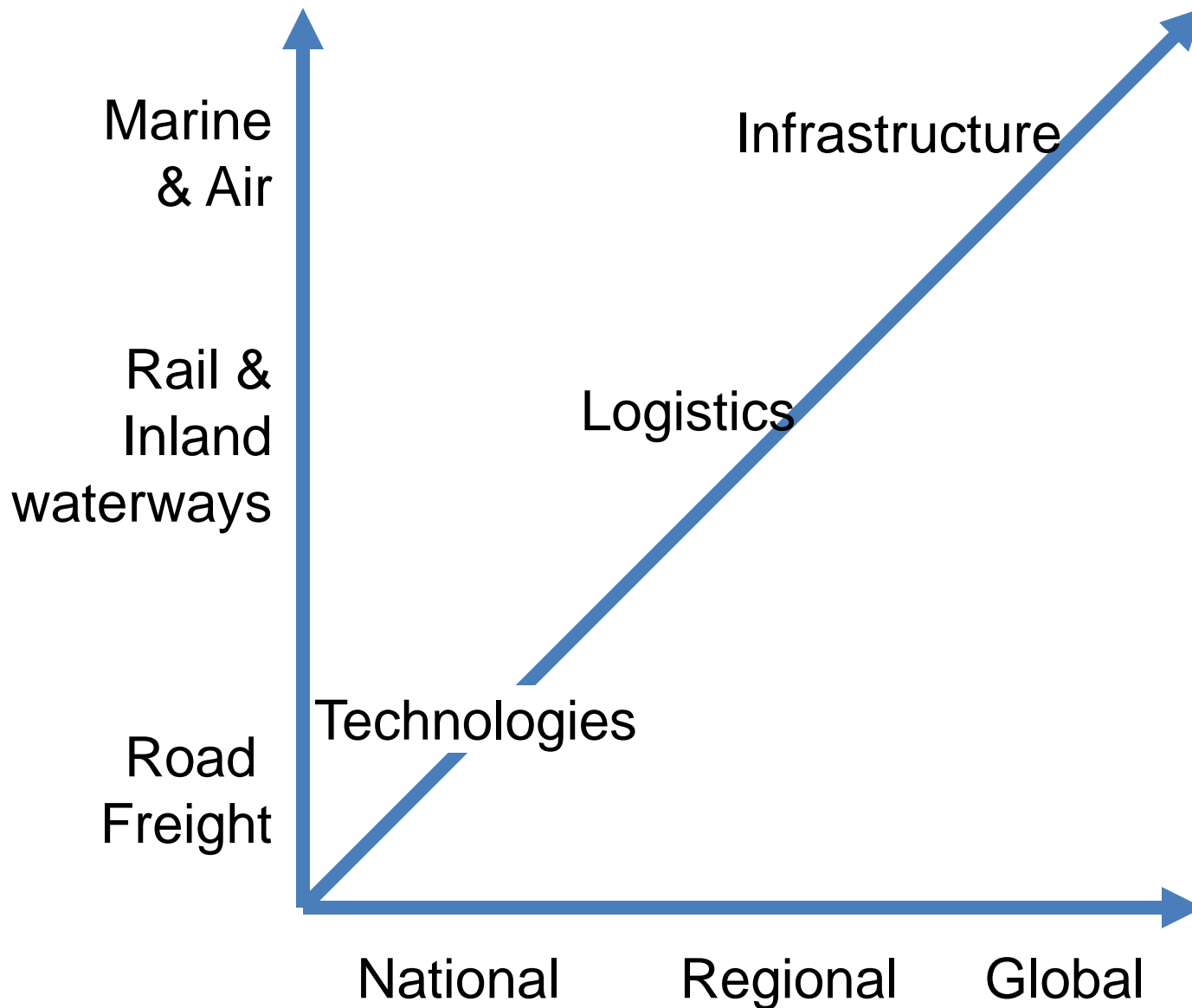
DRIVERS



SECTOR

Historical Development of vehicle capacities ¹⁾			World transport energy use ²⁾	Market diversity
1970	2010	2030		
 Air Boeing 747-200F Max. Freight 101 t	Airbus 380-800F Max. Freight 150 t	Airbus 380-800F Max. Freight 150 t	11.6%	~ 300 – 400 airlines
 Ocean Container Ship 2,600 TEU - 3,100 TEU	Container Ship 11,000 TEU - 14,000 TEU	Container Ship 16,000 TEU - 22,000 TEU	9.5%	~ 150 shipping lines
 Road Gross Vehicle Weight 60-70 t	Gross Vehicle Weight 60-70 t	Gross Vehicle Weight 60-70 t	25% Heavy- and Medium freight trucks	> 1,000,000 trucking companies

SCALE



INITIATIVES ‘WILD WEST’

		Global	Americas	Europe	Asia
Road	Smart Freight Centre	Green freight initiative under Climate and Clean Air Coalition	SmartWay US & Canada Transporte Limpio	Green Freight Europe Cofret Centre for Sustainable Road Freight Transport - research	Green Freight Asia Network China Green Freight Initiative Korea Green & Smart transport Partnership
Marine		Clean Cargo Working Group World Ports Climate Initiative Environmental Ship Index		iCargo	
Air		International Civil Aviation Organization International Air Transport Association			
Other		Carbon War Room EcoTransIT Carbon Disclosure Project GHG Gas Protocol	<div></div> Private sector led <div></div> Government led <div></div> Other led		Regional Agreement on Green Freight

ROLES AND COLLABORATION



Government

1. National green freight programs
2. Planning, policies, standards and regulations to promote technologies, logistics solutions, modal shift for freight movement
3. Infrastructure (including PPPs)

Private Sector & Associations

1. Develop, pilot and operationalize methodologies for measuring fuel, emissions and other impacts
2. Partnering in national programs and other initiatives
3. Develop and adopt technologies, logistics solutions, modal shift
4. Sharing data and best practices

Development agencies/banks, NGOs, Academic/Research Institutes

1. Research, data, tools, knowledge sharing
2. Capacity building
3. Support / set up national programs, policies, standards and regulations
4. Networks and partnerships among stakeholders

Commercial and development banks

1. PPPs with government on infrastructure
2. Funding / investments in technologies, logistics solutions, modal shift

For more information: www.cleanairasia.org



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Clean Air Asia Country Networks

China • India • Indonesia • Nepal • Pakistan • Philippines • Sri Lanka • Vietnam

Clean Air Asia Center Members

- Shell
- Asia Clean Fuels Association
- Corning

245 Clean Air Asia Partnership Members

- Cities
- Environment ministries and government agencies
- Development agencies and foundations
- Non-government organizations
- Academic and research institutions
- Private sector companies and association.

Donors in 2012 to 2013

Asian Development Bank • Cities Development Initiative for Asia • ClimateWorks Foundation • DHL/IKEA/UPS • Energy Foundation • Fredskorpset Norway • Fu Tak Lam Foundation • German International Cooperation (GIZ) • Institute for Global Environmental Strategies (IGES) • Institute for Transport Policy Studies • Institute for Transportation and Development Policy • International Union for Conservation of Nature • L'Agence Française de Développement (AFD) • MAHA • Pilipinas Shell • Rockefeller Brothers Fund • Shakti Foundation • Shell Foundation • United Nations Environment Program Partnership for Clean Fuels and Vehicles (UNEP PCFV) • USAID CEnergy • Veolia • World Bank