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**Ministry of the Environment (MOE), Japan**  
**Partnership on Sustainable, Low Carbon Transport**  
**United Nations Economic and Social Commission for Asia and the Pacific, and**  
**United Nations Office for Sustainable Development**

**TENTH REGIONAL ENVIRONMENTALLY SUSTAINABLE TRANSPORT (EST) FORUM IN ASIA,**  
**14-16 MARCH 2017, VIENTIANE, LAO PEOPLE'S DEMOCRATIC REPUBLIC**

## **Green Freight in Asia in the Context of the Sustainable Development Goals**

**(Presentation for EST Plenary Session 11 of the Provisional Programme)**

**Final Draft**

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This presentation has been prepared by Mr. Friedel Sehlleier, GIZ for the Tenth Regional EST Forum in Asia. The views expressed herein are those of the author only and do not necessarily reflect the views of the United Nations.

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## 10th Regional Environmentally Sustainable Transport Forum in Asia

16 March 2017

Vientiane, Lao PDR

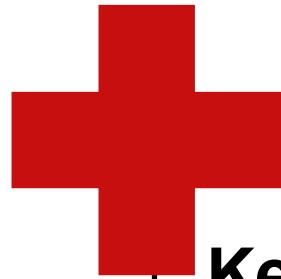
# Green Freight in Asia in the Context of the Sustainable Development Goals

Friedel Sehlleier

ASEAN-German Technical Cooperation Project  
“Energy Efficiency and Climate Change Mitigation in the Land Transport  
Sector”



## Freight transport is a...



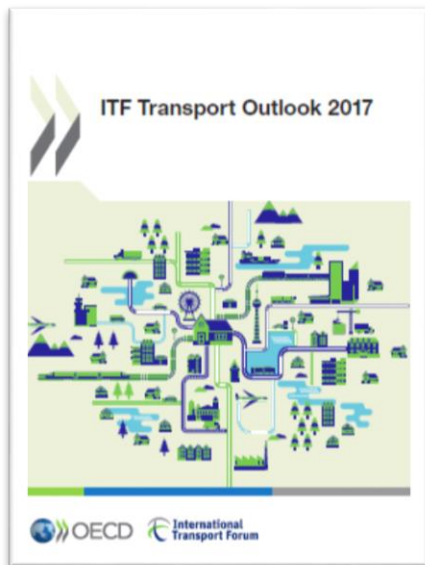
**Key enabler** of trade and development, rural-urban connectivity, regional integration, goods distribution, etc.

**Key emitter** of greenhouse gases and air pollutants





## The Climate Change Challenge for Freight Transport



Transport Volumes 2015-2050  
Passenger: 135% growth  
Freight: 230% growth

Freight share of transport emissions:  
2015: 42%  
2050: 50%

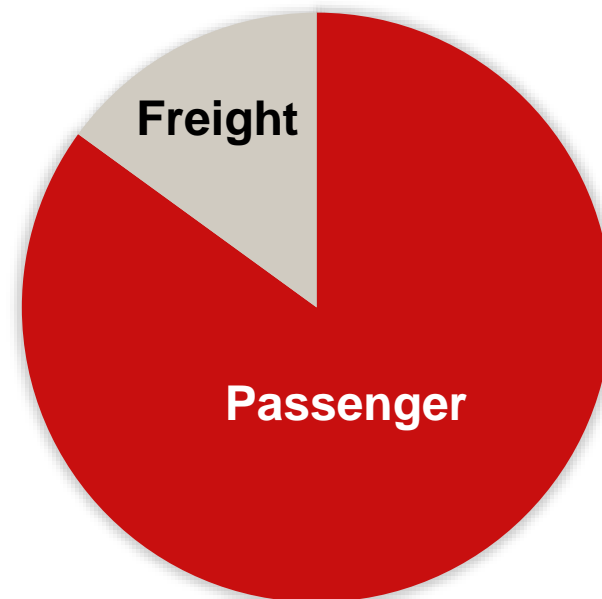
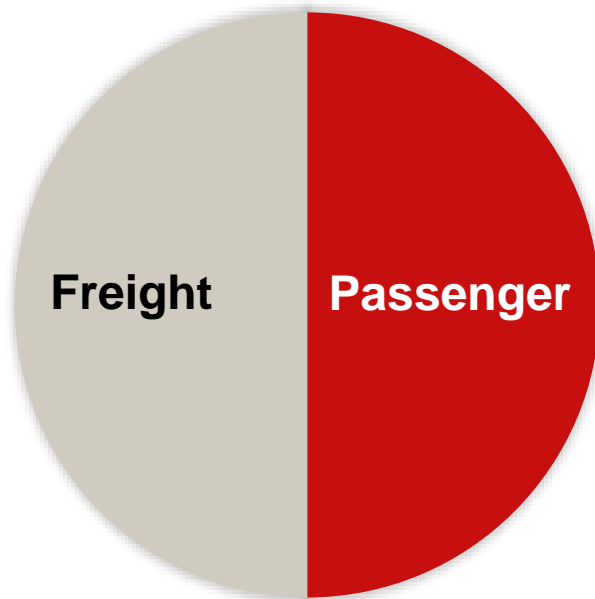


# Freight Transport Emissions vs Attention

Need to raise the profile of green freight

SHARE OF TRANSPORT CO2  
EMISSIONS

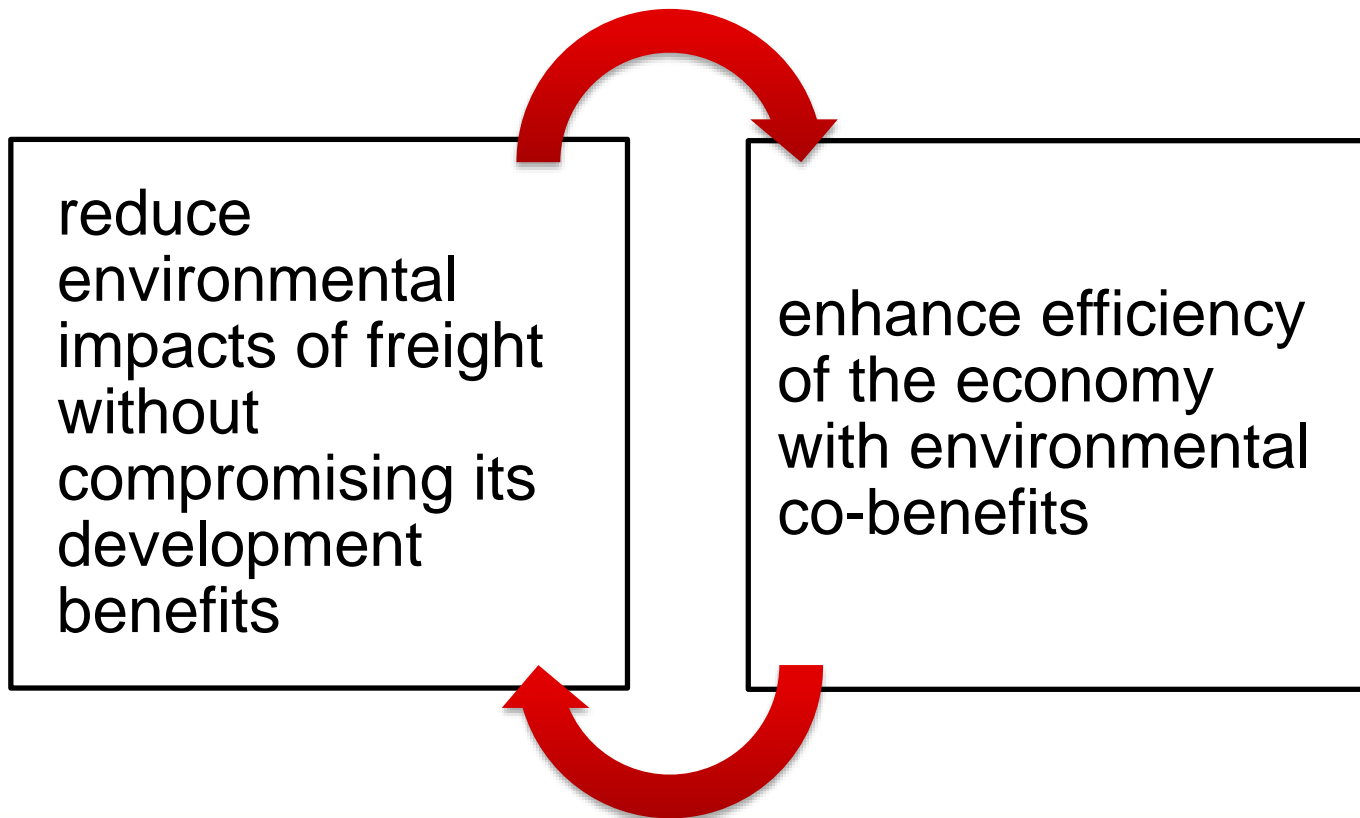
SHARE OF ENVIRONMENTAL  
POLICY ATTENTION





## A Matter of Perspective

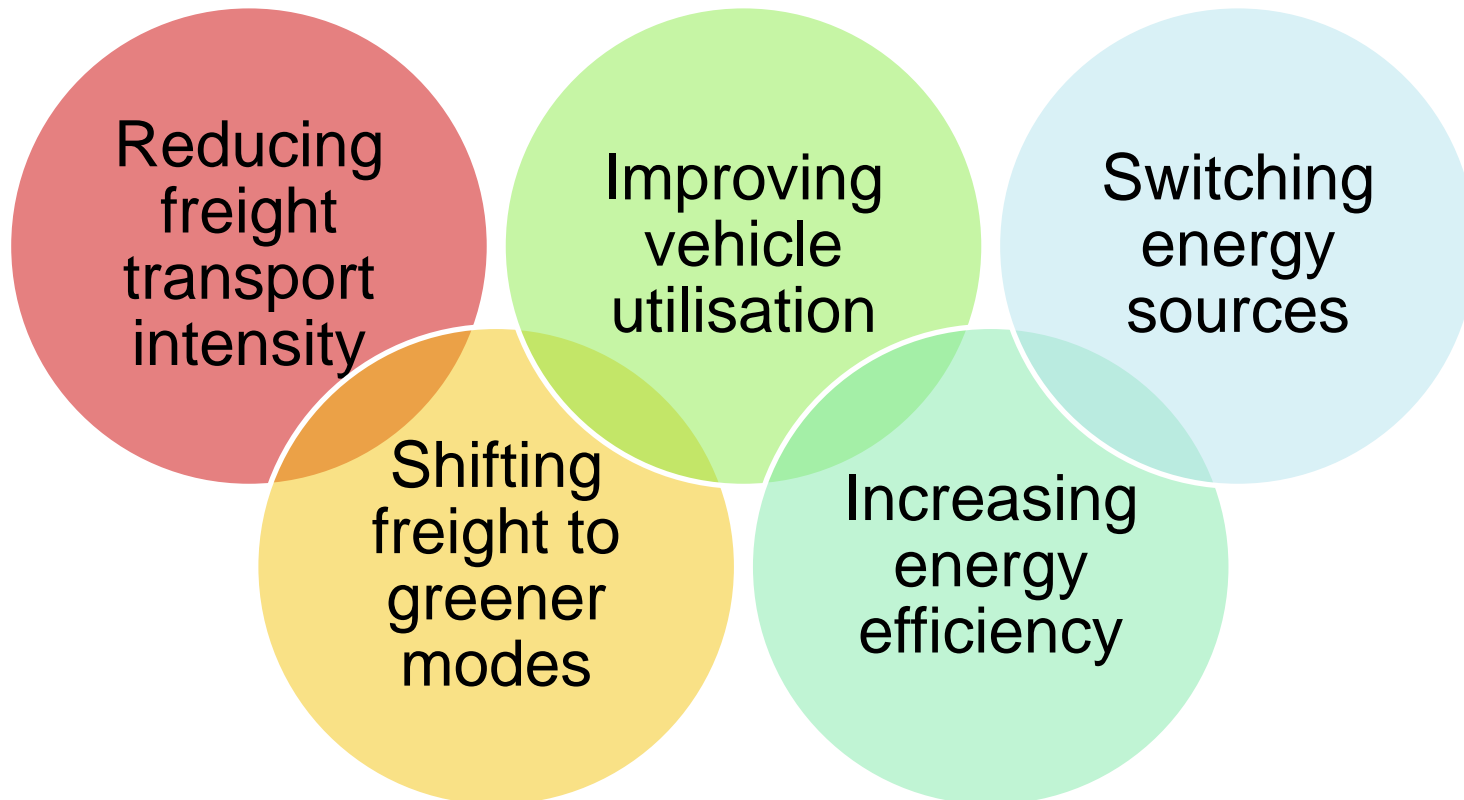
Green Freight is a concept to...





## Aspects of a green freight strategy

Covering all elements of Avoid-Shift-Improve



Source: based on A. Mc Kinnon, Government Role in Sustainable Logistics, 2015



## Green Freight for Sustainable Development

GF helps a wide range of public policy goals, including the SDGs



1 NO POVERTY  
Help transport SMEs  
become more competitive



2 ZERO HUNGER  
Supporting self-sufficiency  
reduces 'food miles'



3 GOOD HEALTH  
AND WELL-BEING  
Eco-driving training leads  
to safer driving behaviours





## Green Freight's contribution to the SDGs

**6** CLEAN WATER  
AND SANITATION



Better maintenance practices can reduce spillage of fuel and other harmful substances from vehicles

**7** AFFORDABLE AND  
CLEAN ENERGY



Improve fuel efficiency of trucks

**8** DECENT WORK AND  
ECONOMIC GROWTH



Greener and more efficient freight transport brings down transport and logistics costs



## Green Freight's contribution to the SDGs

**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



Expansion of railway networks promotes mode shifting and facilitates trade

**11** SUSTAINABLE CITIES  
AND COMMUNITIES



More efficient urban logistics reduces congestion and air pollution

**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



e.g. green packaging, energy efficient warehouses, minimising waste through reverse logistics



## Green Freight's contribution to the SDGs



Green freight reduces greenhouse gas emissions



Environment-friendly practices in shipping and port operations protect marine life



New freight corridors should minimise fragmentation of habitats and be complemented with afforestation efforts



## Green Freight's contribution to the SDGs

17 PARTNERSHIPS  
FOR THE GOALS

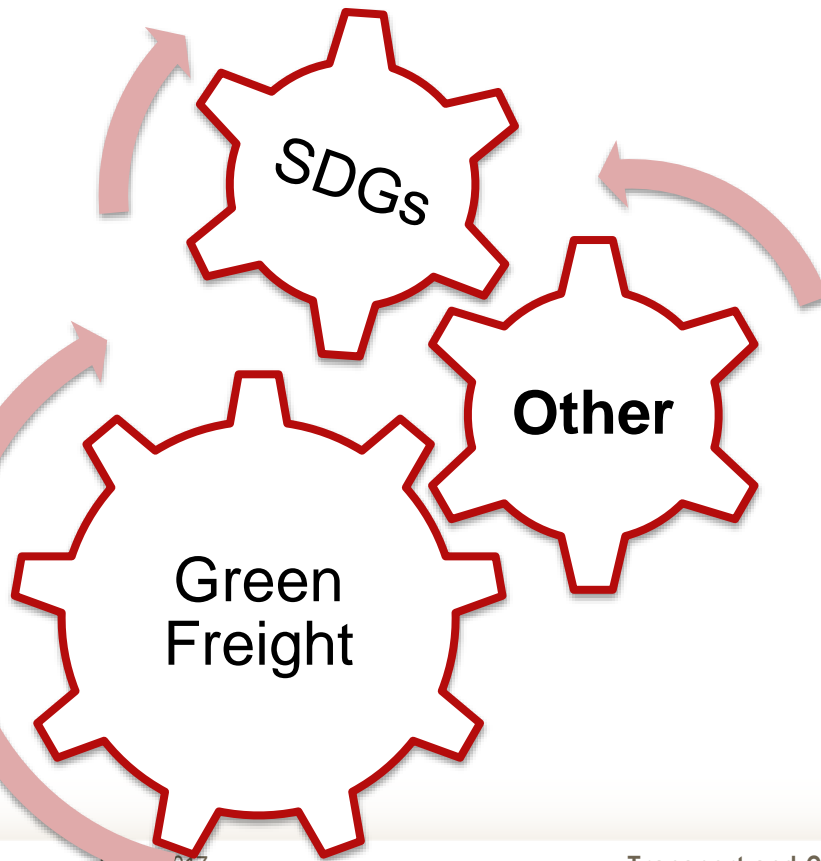


Public-private partnerships  
are needed to facilitate  
industry-wide change



## Green Freight Links to Other International Processes

Making freight more sustainable promotes achievement of multiple international development agendas



- Bangkok 2020 Declaration
- New Urban Agenda
- Paris Agreement
- Decade of Action for Road Safety
- Addis Ababa Action Agenda
- Sendai Framework for Disaster Risk Reduction
- Vienna Programme of Action for LLDCs
- SIDS Accelerated Modalities of Action
- Istanbul Programme of Action for LDCs



# Current Status of Green Freight Initiatives in Asia

## National initiatives and policy gaps

Freight Measures	Bangladesh	Central Asia	China	India	Indonesia	Japan	Lao PDR	Malaysia	Nepal	Pakistan	Philippines	Singapore	Sri Lanka	Thailand	Vietnam
Infrastructure															
Traffic management															
Time access restrictions															
Vehicle size and weight restrictions															
Eco-driving training															
Inspection & maintenance															
Alternative fuels and vehicles															
Land use															
a) Enhanced building codes															
b) Truck stops/parking outside metropolitan areas															
c) Relocation of large traffic generators															
Emission standard (EURO IV+)															
Low emission zones															
Congestion charging															
Anti-idling programmes															
Removing diesel subsidy															
Freight online exchanges															
Truck fuel economy standard															
Sustainable urban freight policy/plan															
Freight operators certification programme															
Developing green freight programmes															
Aerodynamic, telematics and tyre technology															

Authors' review



## Way Forward for Green Freight in Asia

- Keep increasing awareness and policy action
- Integrate sustainability in freight system planning
- Work across ministries and partnership with enterprises
- Adopt a regional view to fix common issues collectively
- Increase action on sustainable urban freight
- Use standardised indicators and improve data



# Thank you for your attention!

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# Learn more about GIZ transport in ASEAN and around the globe

## [ASEAN Sustainable Transport: Reading and Reference List](#)



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Non-Profit Organization

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In order to move towards sustainable transport in the ASEAN region, our giz project aims at improving energy efficiency and mitigating GHG emissions from...

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Transport and Climate Change in ASEAN

25 mins · 🌐

"Metro Manila traffic is congested and chaotic, not because it's unmanageable, but rather because it is unmanaged"

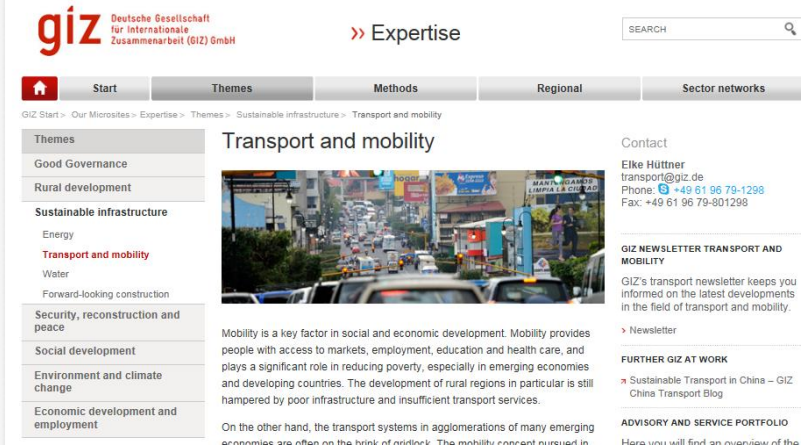
This commentary explains what Manila can learn from Seoul in on reforming the bus system.

Transport and Climate Ch...  
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<http://www.giz.de/expertise/html/2067.html>



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Transport and mobility



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- Sustainable Transport in China – GIZ China Transport Blog

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Here you will find an overview of the

Mobility is a key factor in social and economic development. Mobility provides people with access to markets, employment, education and health care, and plays a significant role in reducing poverty, especially in emerging economies and developing countries. The development of rural regions in particular is still hampered by poor infrastructure and insufficient transport services.

On the other hand, the transport systems in agglomerations of many emerging economies are often on the brink of collapse. The mobility concept pursued in

[www.TransportAndClimateChange.org](http://www.TransportAndClimateChange.org)



Energy Efficiency and Climate Change Mitigation in the Land Transport Sector in the ASEAN Region

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Project Overview

In order to move towards sustainable transport in the ASEAN region, this project aims at improving energy efficiency and thereby mitigating greenhouse gas emissions arising from land transport. This requires comprehensive strategic orientation of decision makers at the level of national, regional and local governments.

More

Transport & Climate Change

A certain level of mobility creates benefits for economic and social development, however the current trends in the transport sector in Asia are unsustainable. Having the 2<sup>nd</sup> largest vehicle fleet in Asia just after China, ASEAN already faces serious problems including congestion, fossil fuel consumption, air pollution and road safety.

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News & Events

Regional exchange on NA. How can NAMAs help sustainable transport in Asia? This was the cent...

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As a federal enterprise, GIZ supports the German Government in achieving its objectives in the field of international cooperation for sustainable development.

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