

Decarbonising land transport in Asia – Policy options for the national level

Holger Dalkmann, CEO and Founder Sustain2030

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Background: Global & Regional Data initiatives to make informed decisions and analysis

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Asian Transport Outlook Database

Transport


ADB has initiated the Asian Transport Outlook (ATO) to strengthen the knowledge base on transport in the Asia-Pacific region. The ATO is developed in support of the planning and delivery of ADB Transport Sector Assistance. At the same time, the ATO supports ADB's Developing Member Countries in transport policy development and delivery.


ADB is working with other interested parties in developing the ATO as an instrument to track the implementation of the Sustainable Development Goals, the Paris Agreement and other relevant international agreements on sustainable development in the transport sector. Likewise, the ATO also serves as input in regional transport initiatives, such as the ESCAP Regional Action Programme for Transport Development in Asia and the Pacific, the ASEAN Kuala Lumpur Strategic Action Plan and the Environmental Sustainable Transport Forum 2021-2030 Declaration on Sustainable Transport.

The ATO is an open data resource that creates an institutionalized process for transport data and policy information collection, analysis and documentation.

The ATO collects, organizes, and shares data on the transport sector in 51 countries using more than 450 indicators. It also documents the institutional frameworks, policies, and financing of transport in these countries. This is a multiyear program initially funded by ADB but eventually intended to become a stand-alone program with funding from multiple sources. Phase 1 of the ATO ran from November 2020 to April 2021. Currently the ATO is in an interim phase, which will run until September 2021 after which it is intended that Phase 2 of the ATO will commence.

Data and Resources

 ATO User Guide (PDF)

 Master List of Indicators (XLSX)
As of July 2021



Tracking Trends in a Time of Change: The Need for Radical Action Towards Sustainable Transport Decarbonisation

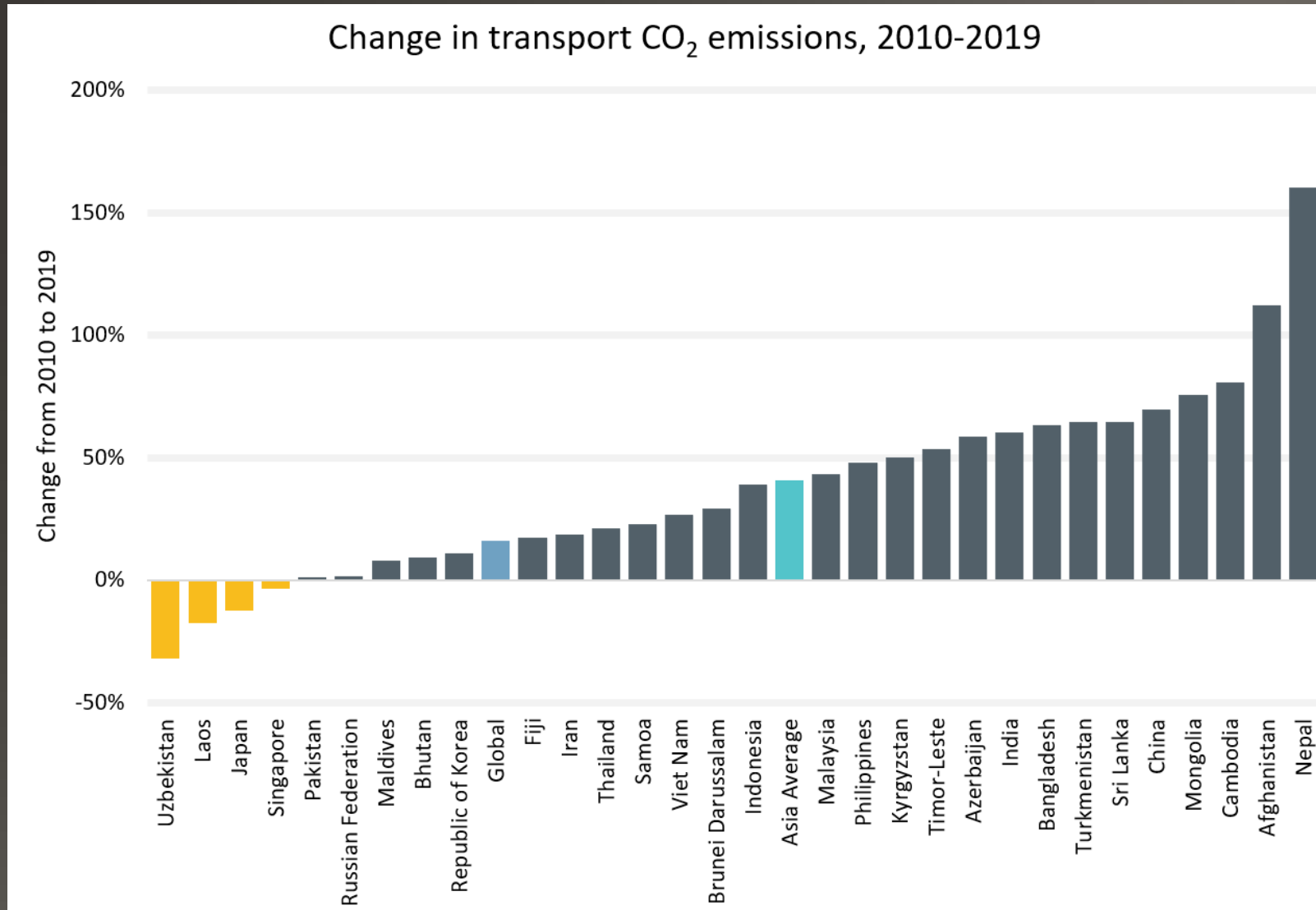
SLOCAT Transport and Climate Change Global Status Report 2nd Edition

[Explore online](#)[Download the report](#)

SLOCAT: <https://tcc-gsr.com/>

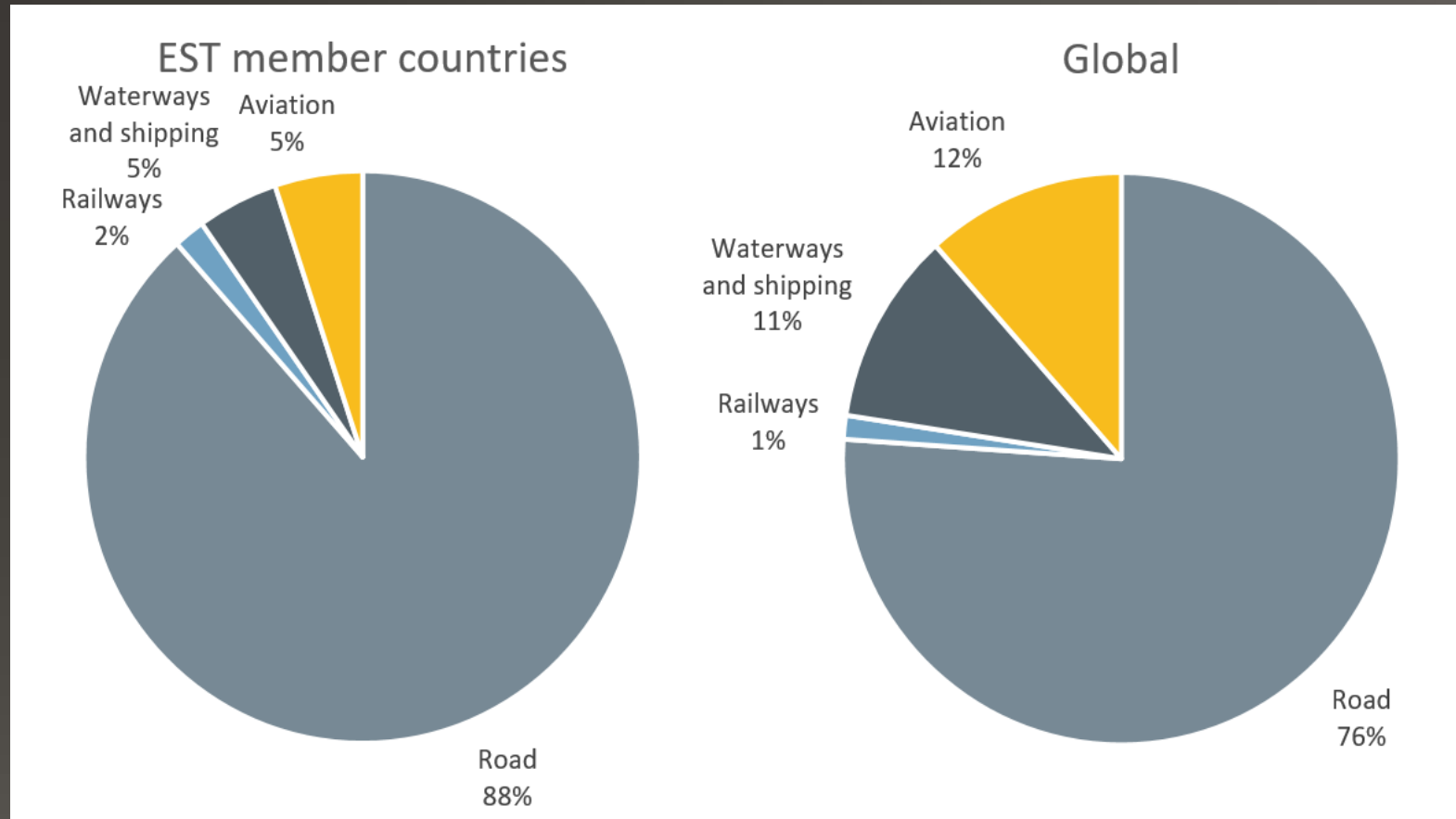
<https://data.adb.org/dataset/asian-transport-outlook-database/>

The scale of Asian challenges



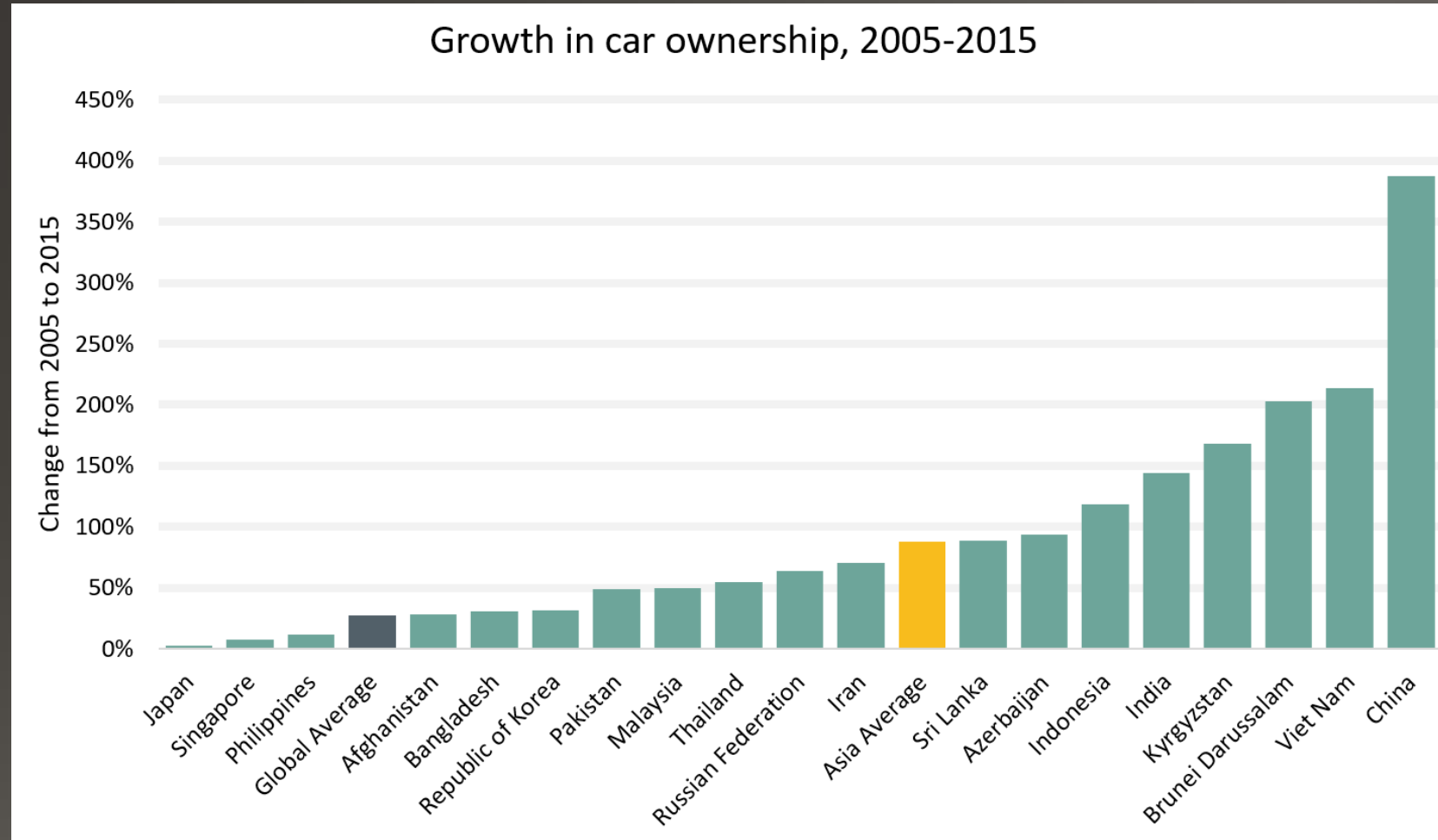
- Asia's transport CO₂ emissions grew in the last decade by 41%
- Almost all countries CO₂ transport emission grew in the last decade
- Asia's average carbon footprint is with 0.57Gt/per Capita – 10 times lower than the US

Road transport is the dominating sector for EST Countries emissions



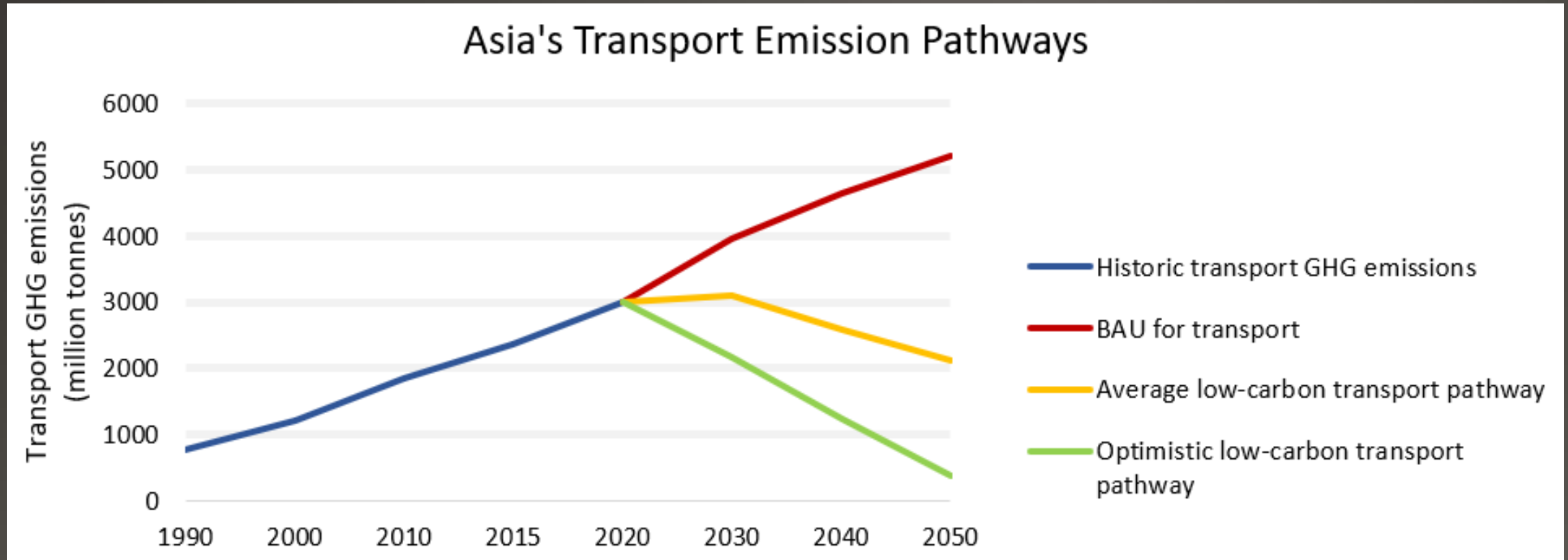
- 2/5 of Asian road CO₂ transport emission is caused by freight

Motorisation one of the main drivers for rising CO₂ emissions



- 533 mn t CO₂ from SUVs
- SUV sales in China (44%)/India (34%)

The need to transition transport in Asia



To decarbonise the Asian transport sector the key developments need to be tackled

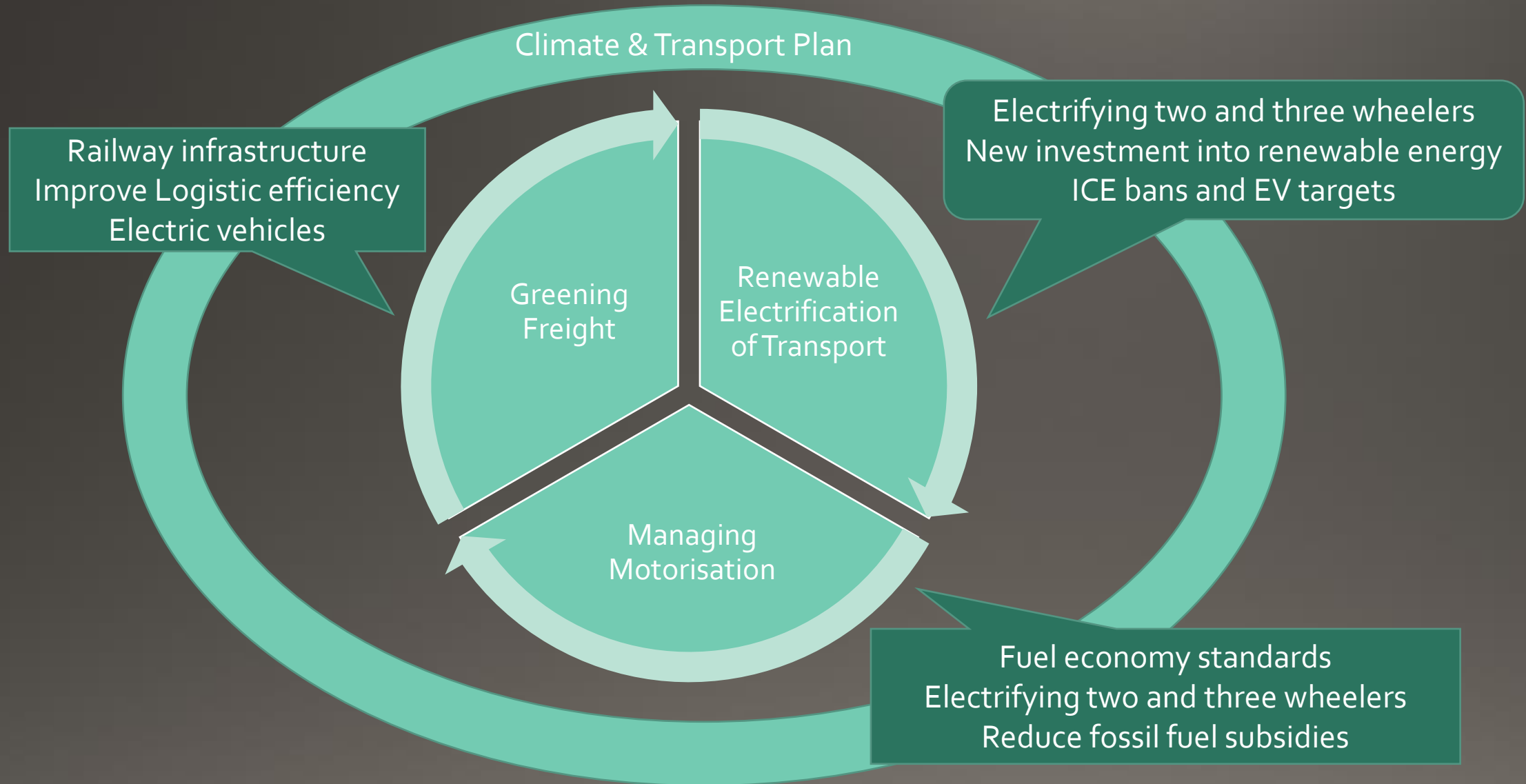
Growing motorisation



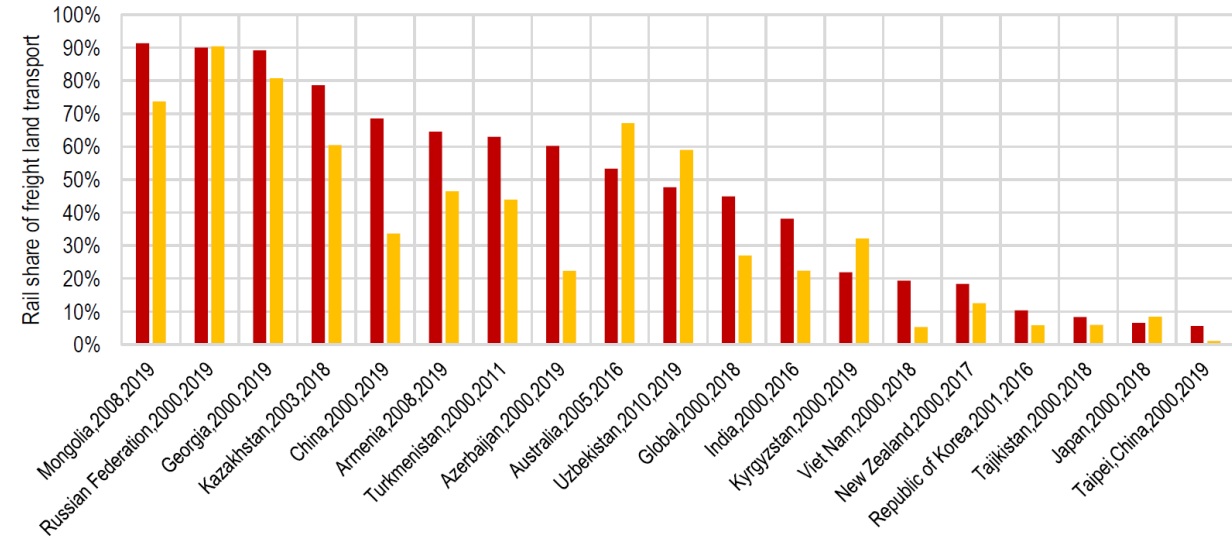
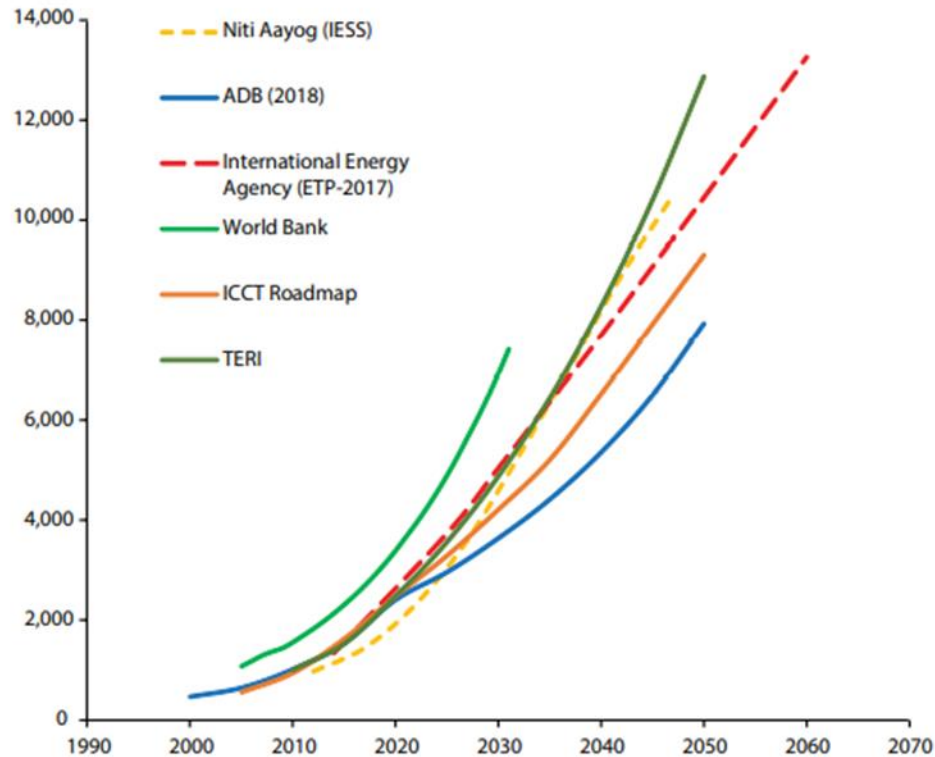
Growing freight sector



3 Solution clusters to decarbonise as part of a National Plan



Greening Freight challenges: Railway share decreased while projections indicates a substantial increase (e.g. India)

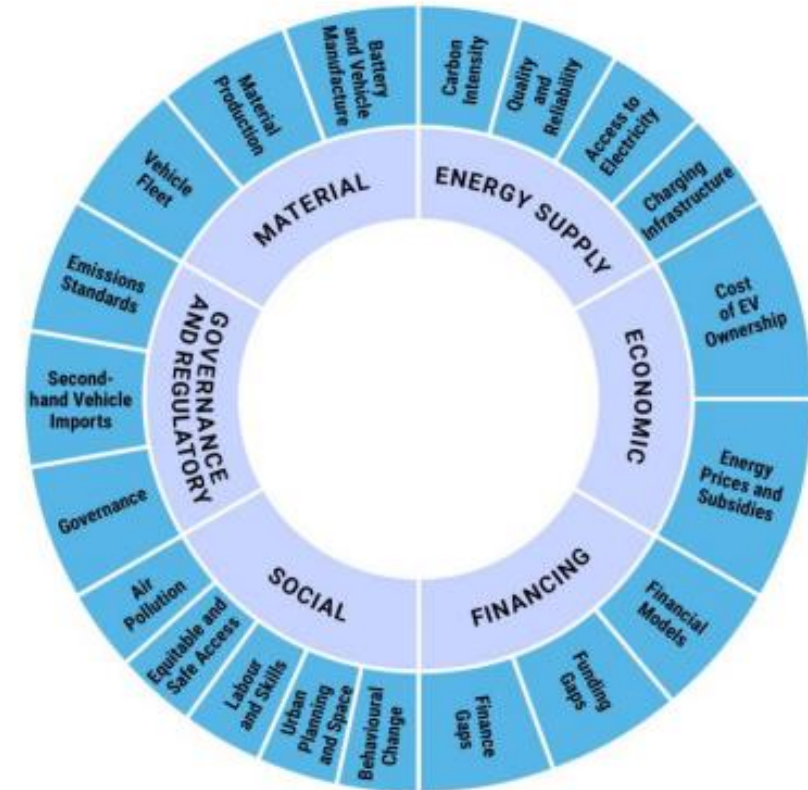
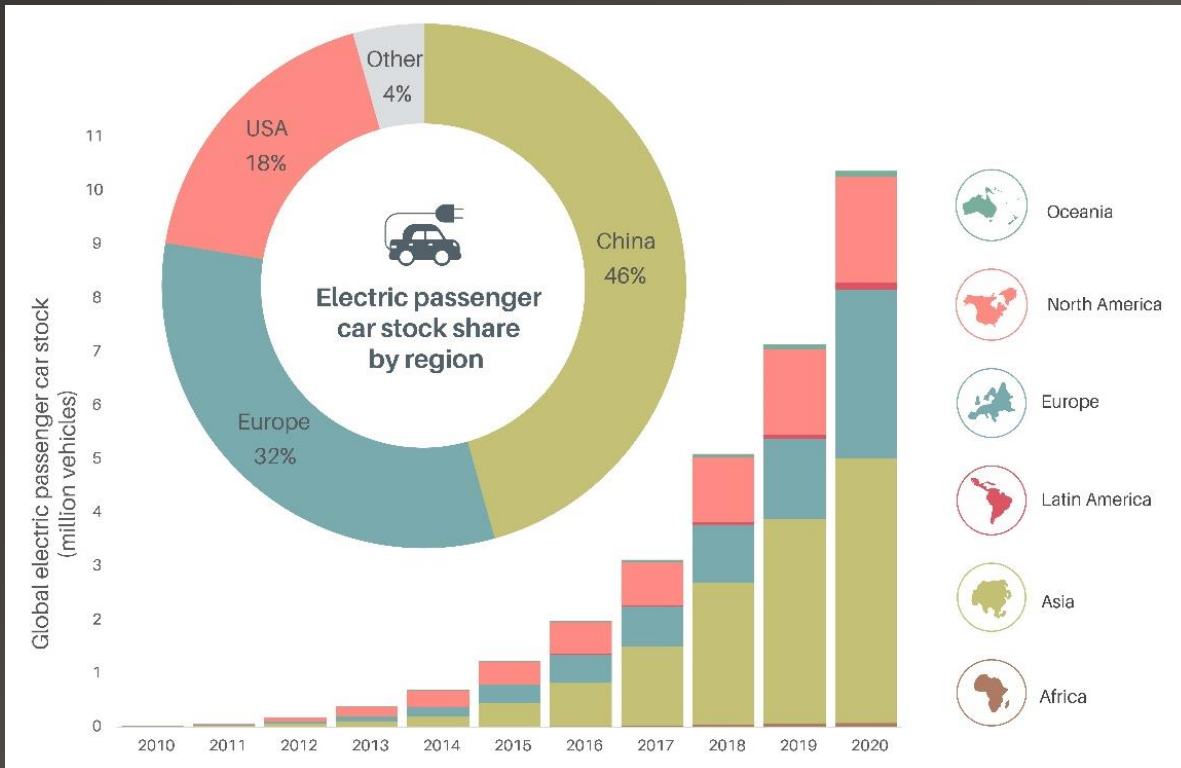


Source: UIC, Country Statistical Yearbooks, World Bank

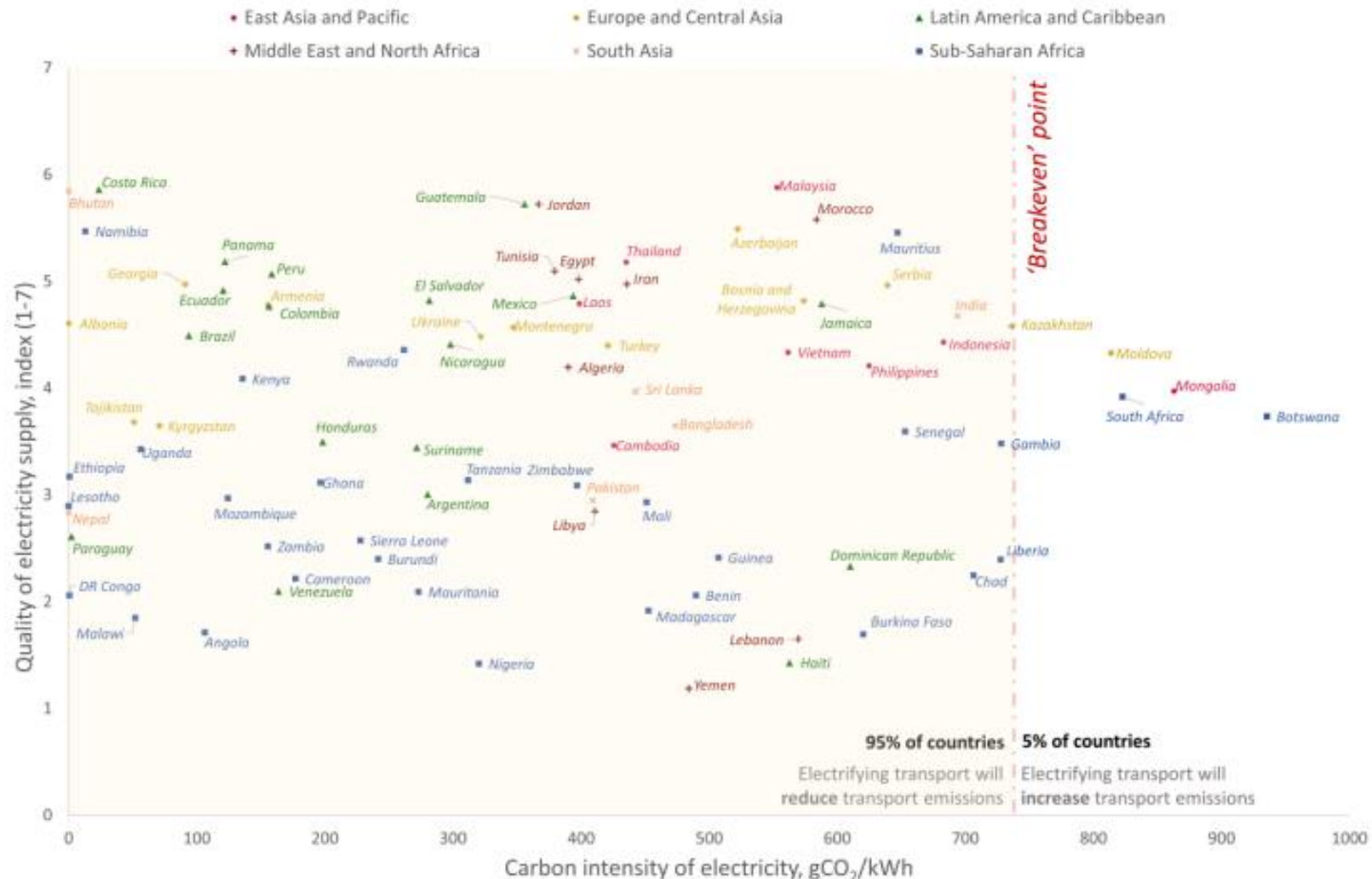
ATO data used - TAS-FRA-004, TAS-FRA-005

Creating a Regional/National Freight Strategy: Rail investment, cleaner vehicles, more efficient services

Renewable electrification of transport: the need for Asian specific solutions



Thinking energy and transport together: A shift to electric mobility will reduce transport emissions in most Asian countries

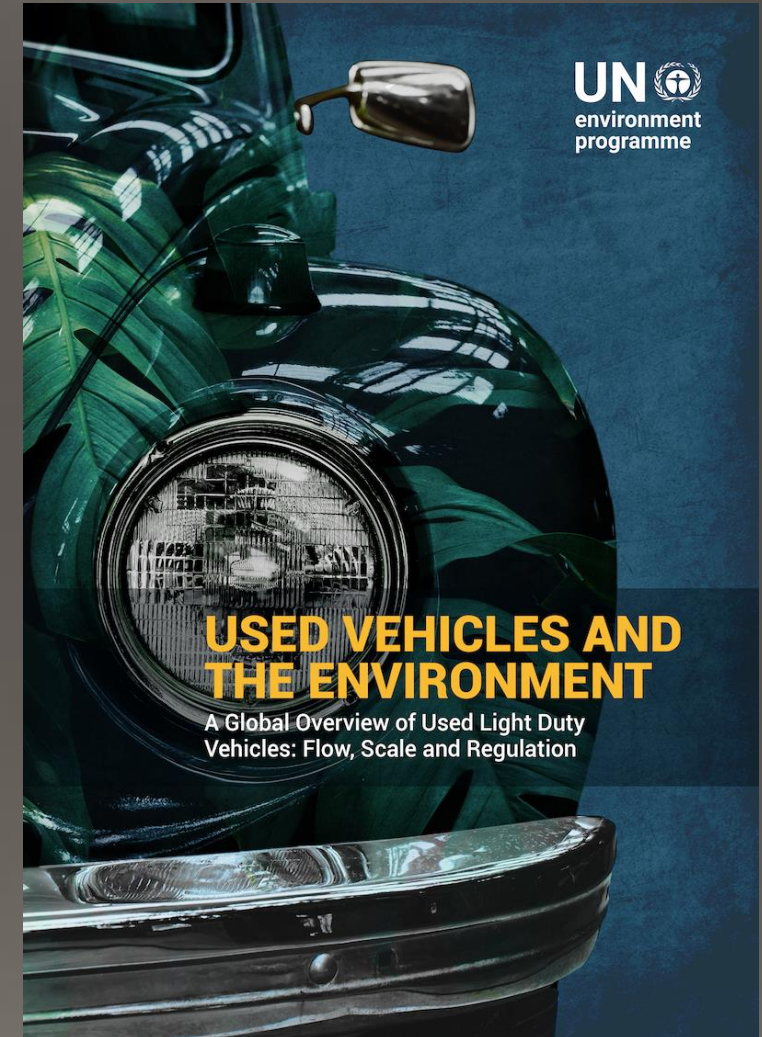


Electrification & Managing motorisation: The need for regulatory interventions: ICE bans and Second-hand vehicles

ENVIRONMENT

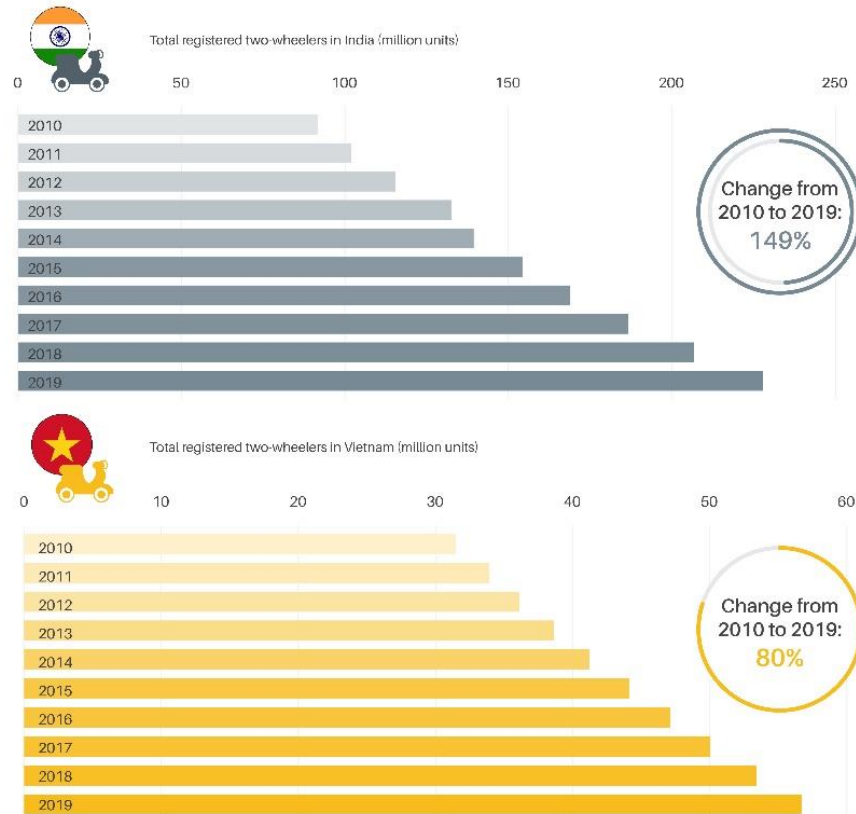
Singapore vows to be first in Southeast Asia to ditch petrol cars

City-state sets ambitious plan to fully switch to green vehicles by 2040



Managing motorisation: Two and three wheelers in focus

Figure 6. Change of motorcycle fleet in India and Vietnam, 2010-2019



S. LOCAT Transport and Climate Change
Global Status Report - 2nd edition www.locat.com

Creating an affordable and cleaner alternative to passenger cars:

- Indonesia: Phasing out conventional two wheelers by 2025
- Thailand to establish local manufacturing (over 50.000 by 2025)

Opportunities under the new Aichi Declaration

- Closing data gaps and share knowledge between EST Countries
 - Specific attention to certain policy packages (freight, managing motorisation, renewable electrification of transport)
 - Encourage regional initiatives, e.g. on second-hand vehicles, transport-energy nexus
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Many thanks for your attention!

**Holger Dalkmann
CEO & Founder
Sustain2030**

hdalkmann@sustain2030.net