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2030 ASIAN TRANSPORT OUTLOOK: THE ROAD AHEAD FOR CARBON EMISSIONS AND AIR QUALITY

SHAPES AND SHIFTS OF TRANSPORT SECTOR IN ASIA











Foundation of ATO



- 51 Economies (ADB Members + Russia and Iran)
- 460 Urban Centers (412 Asia-Pacific,48 International)
 - 46 Urban Centers with a detailed review * To be increased to 50



















373 national indicators,

53% have multi-year data, 20% have 2021 data, 10% have more than 2 sources, 30% have more than 1 source,

281 urban indicators,

~80% have multi-year data, ~70% have more than 1 source



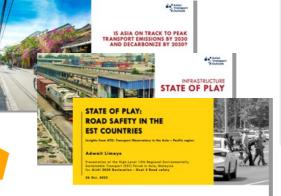


ASIAN INFRASTRUCTURE INVESTMENT BANK

Key Objectives of ATO



Tracking Global
Agreements on
Sustainable
Development and
Climate Change,
Regional Aichi
2030 Declaration



Support Transport Policy Making in Asia



Support the planning and delivery of Transport related assistance by the ADB & AllB

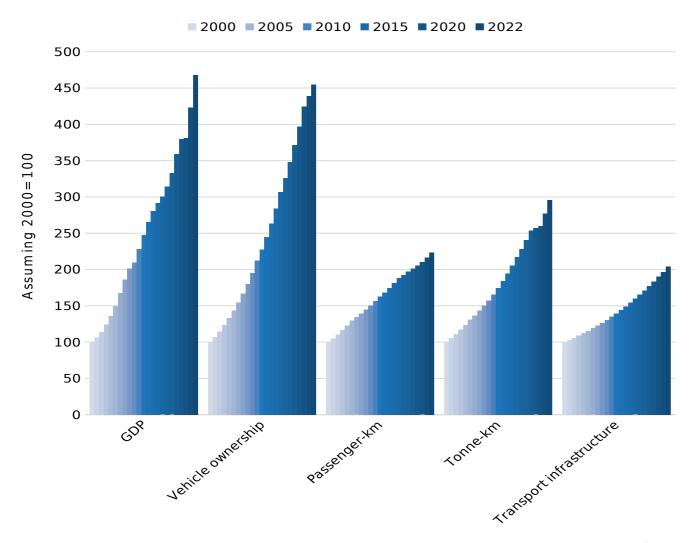




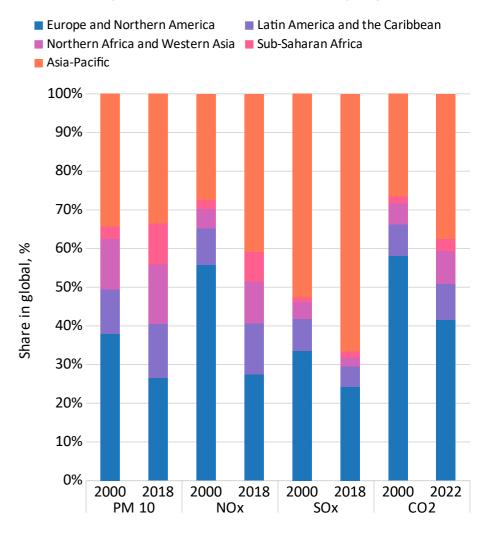




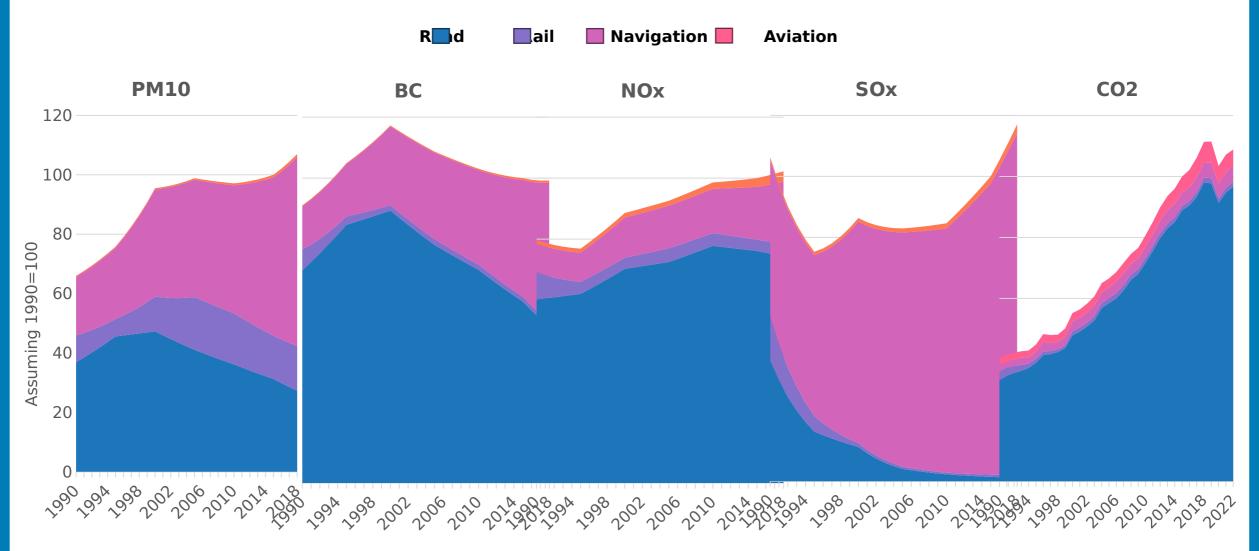
Drivers of Transport Sector in Asia



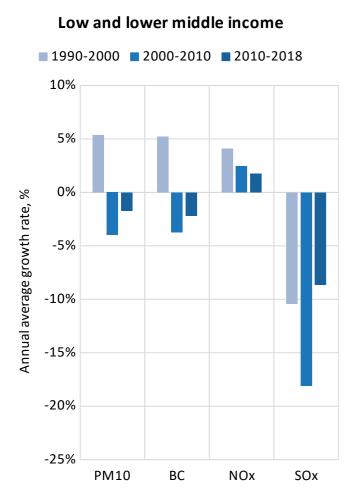
Transport sector emissions share by region

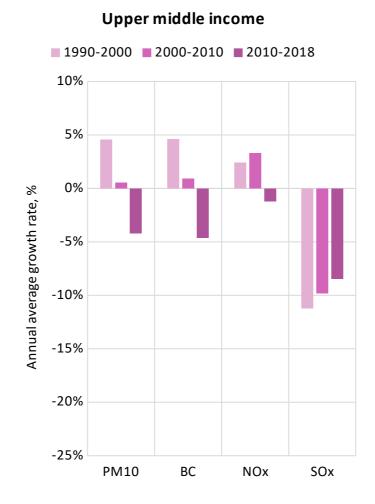


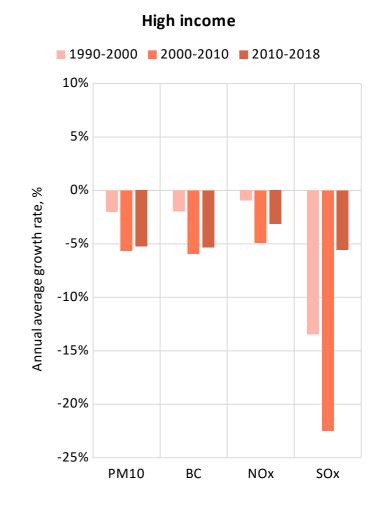
Transport Sector Emissions by Mode



Road Transport Air Pollutant Emissions by Income Level

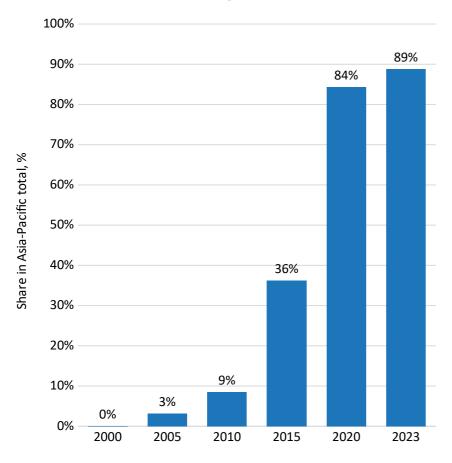




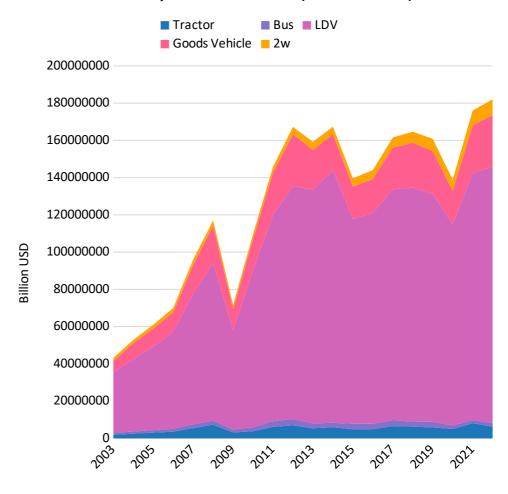


State of Clean Vehicles in Asia

Share of countries with Euro 4 or better LDV emissions standards implemented (in terms of vehicles registered)



Vehicle imports in Asia-Pacific (Used and New)



Source: Clean Air Asia, Country Official Statistics

Source: Trademap

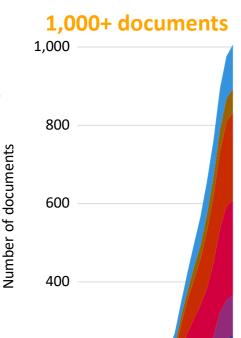
Comprehensive Policy Tracker - The 2nd Foundation



National Transport Policy 1,200

200

- Transport Subsector Policy
- Other Transport-related Policy
- Nationally Determined Contributions
- Long-term Strategies
- Transport Laws/ Regulations
- Official Press Release/ Ministerial Statement
- Presentation by National Official
- Official Website
- National Report to International/ Regional Processes
- Secondary Source
- Others



265 measure types

of which 158 have air pollution element, 180 have climate change mitigation element



in a survey of 15 countries* and 300 policy documents

5000 measures

of which 3200+ have air

pollution element,

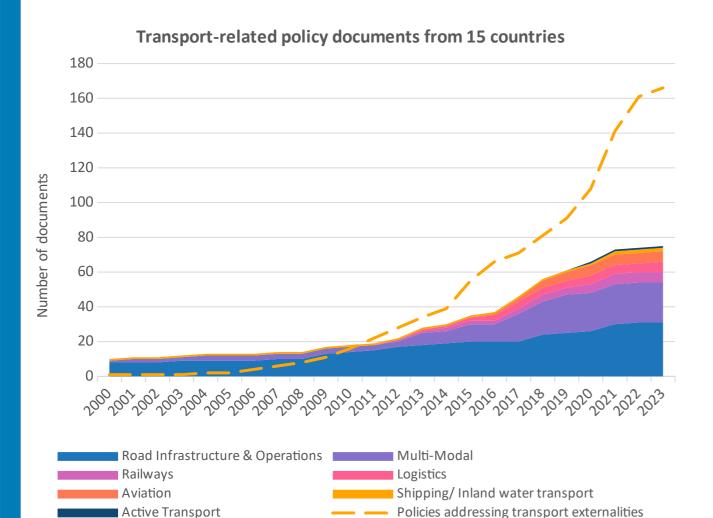
3700+ have climate

change mitigation

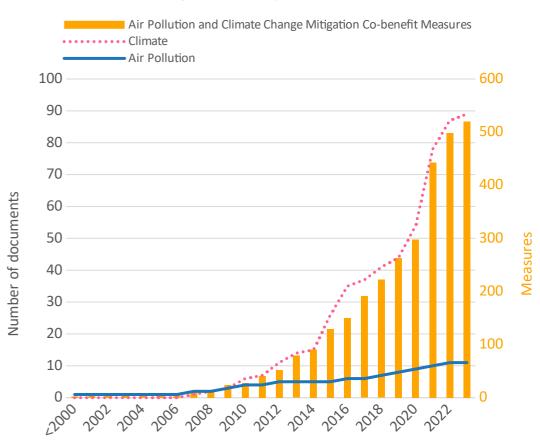
element

*Countries considered – Bangladesh , Bhutan, Indonesia, Kazakhstan, Lao People's Democratic Republic, Malaysia, Maldives, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Timor-Leste, Uzbekistan & Viet Nam

Evolution of Transport Policies in Asia

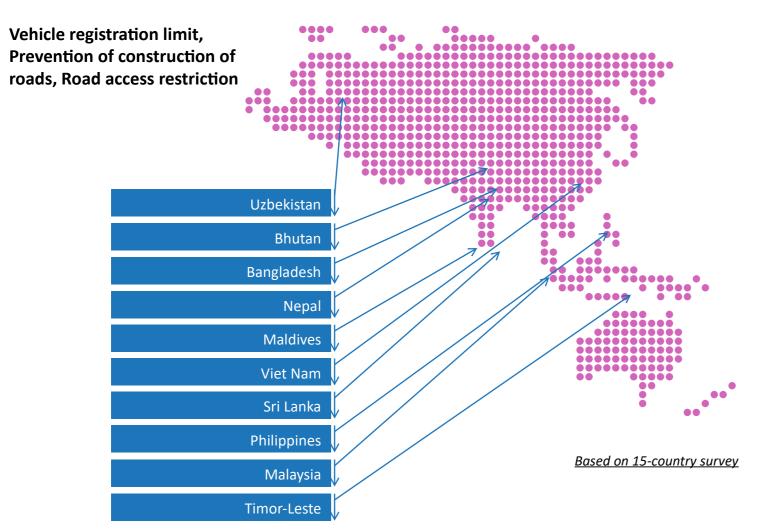


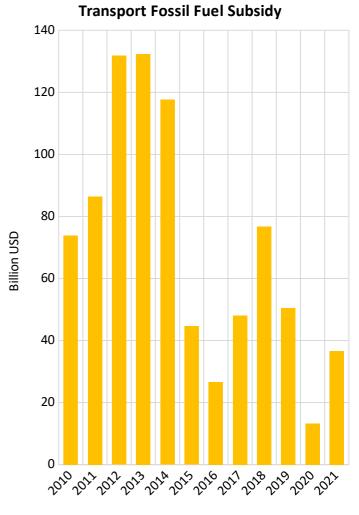
Example cobenefit of air pollution and climate change mitigation transport measures



Source: National Policies

Managing Transport Demand





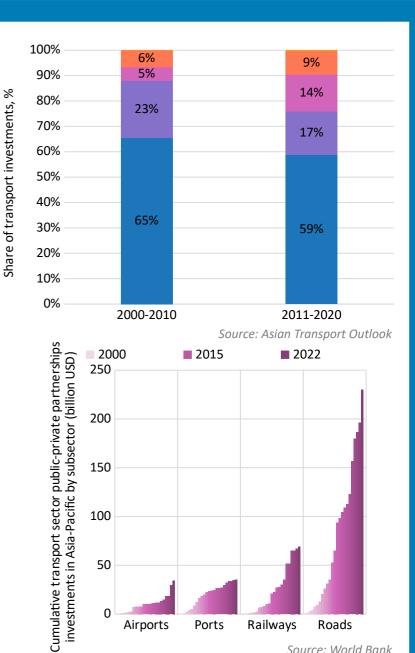
Source: IEA

Source: National Policies

Modal Shift

Modal Shift Targets in Asia-Pacific





Railways

Roads

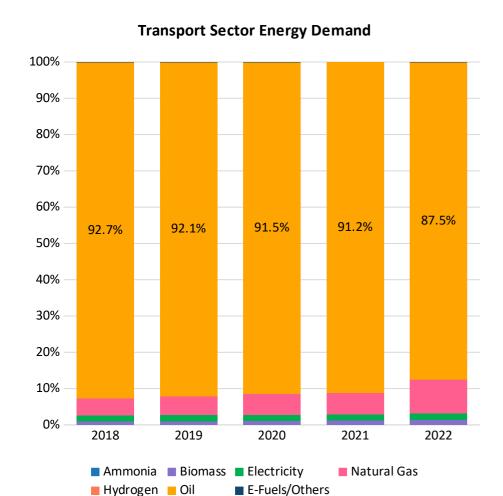
Source: World Bank

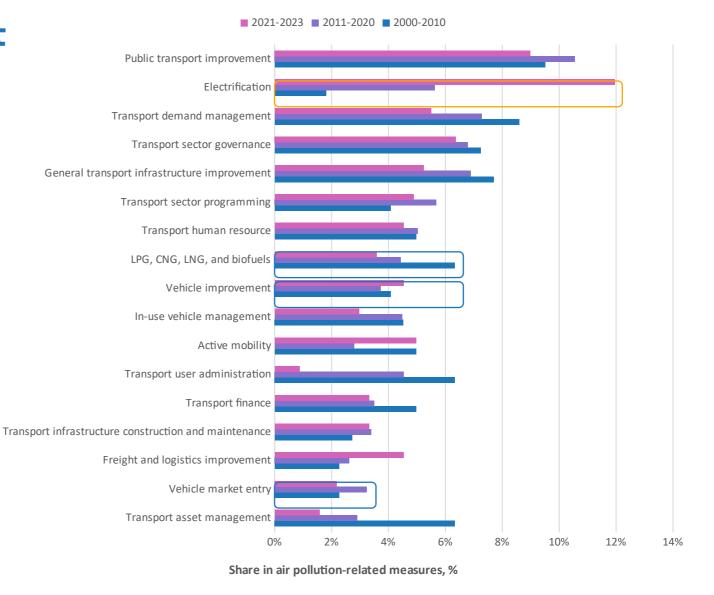
Ports

Airports

Source: National Policies

Electrification of Transport





Shifting the Shape



Road PM10 per GDP

Road PM10 per capita = -30%

Road PM10 per vehicles registered = -56%

Total absolute decrease = -75 thousand tonnes



Road crash fatality per GDP = -43%

Road crash fatality per capita = -13%

Road crash fatality per vehicles = -48%

registered

Total absolute decrease = -42,000

premature

deaths



Road CO2 emissions per GDP = -34%

= -52%

Road CO2 emissions per capita = +22%

Road CO2 emissions per vehicles = -34%

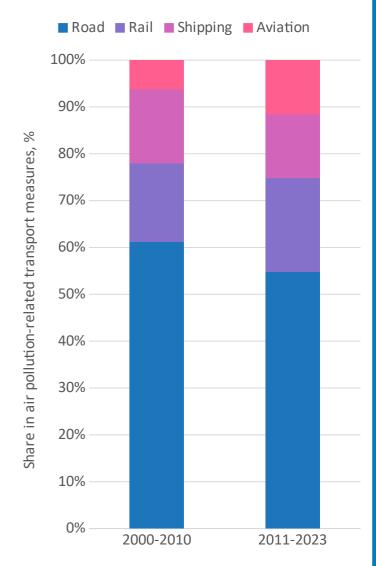
registered

Total absolute increase = 573 million

tonnes

Source: EDGAR, WHO, World Bank, UNStats, Country Official Statistics

Air pollution-related measures by mode



"ATO translates data into insights, policies, and investments"

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