

## **Bridging the Gap: Transport** Policies for Mitigation and Adaptation in Asia

### Alvin Mejia

**Co-Team Lead Asian Transport Observatory** 

Transport NDC 3.0 Kick-off Workshop - PHL **January 22, 2025** 





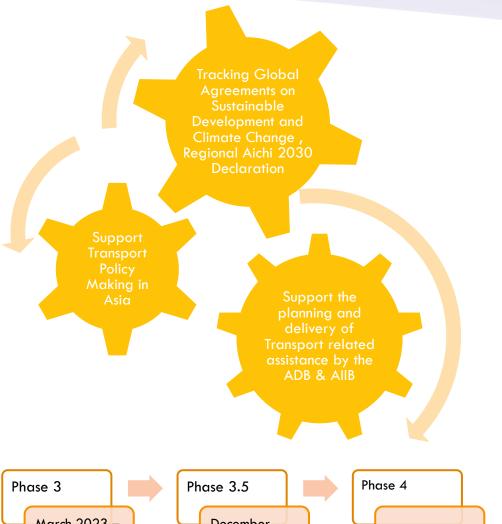


## Asian Transport Observatory (ATO)





review \* To be increased to 50

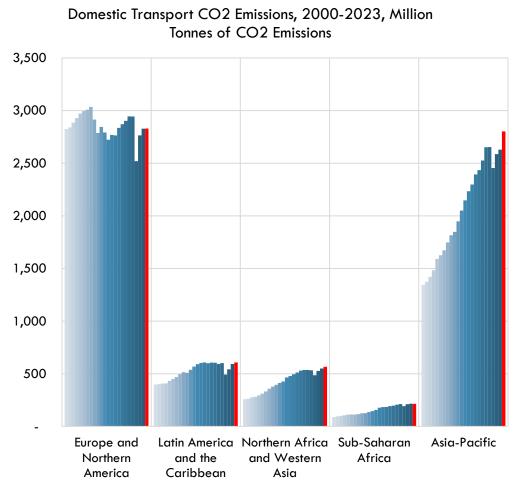


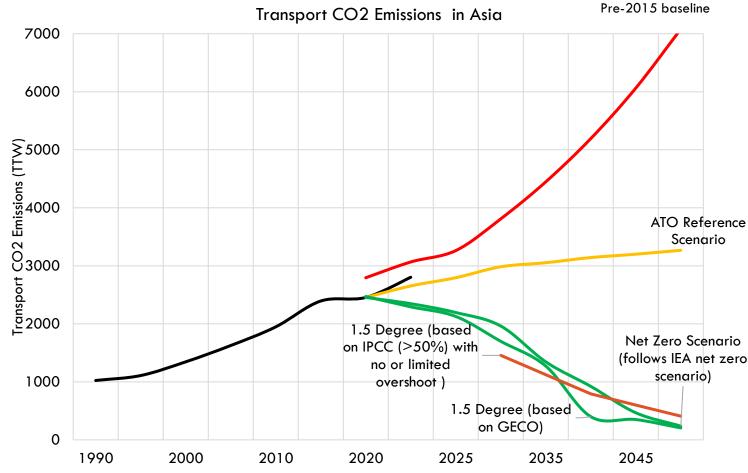


Observatory



## Asia's transport decarbonization progress is lagging



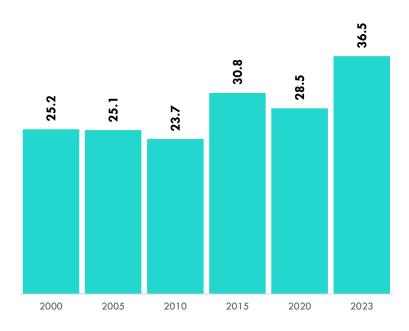




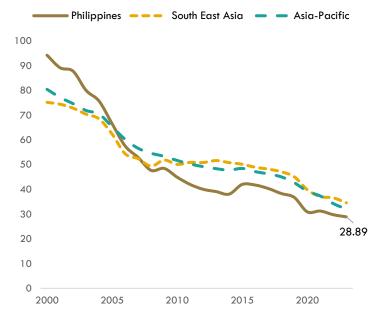




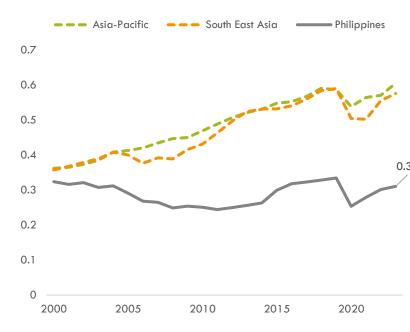
## Philippines: Transport CO2 and Emissions Intensities



Transport fossil CO2 emissions, million tonnes



Transport fossil gCO2 per USD of GDP



Transport fossil CO2 (tons/capita)

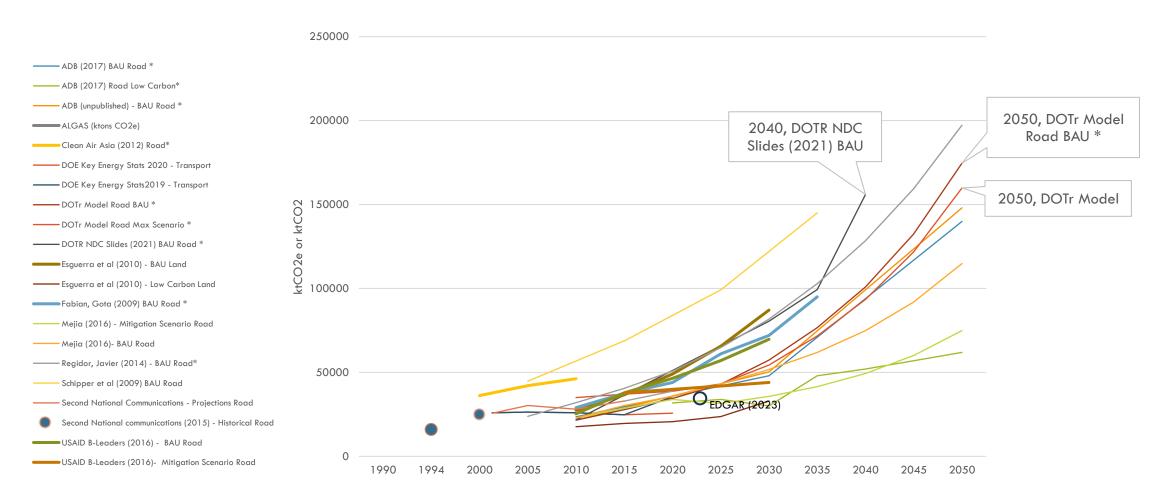
Source: Based on estimates contained in the EDGAR 2023 GHG database







## **History and Projections**



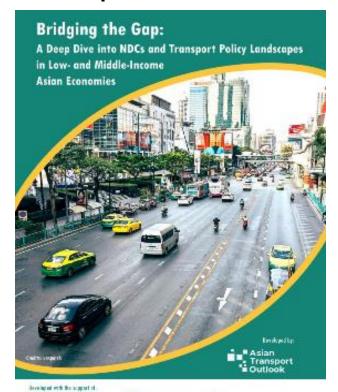




# BRIDGING THE GAP: A DEEP DIVE INTO NDC AND TRANSPORT POLICY LANSCAPES IN ASIAN LMICS



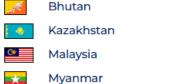
### **Main Report**



### **24 Transport and Climate Profiles**







Uzbekistan

1	Papua Ne	ew Guinea

	iri Lanka
--	-----------

<b>&gt;</b>	Timor-Leste





https://tinyurl.com/NDCgapanalyis











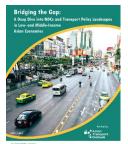








### **POLICY ANALYSIS**







Azerbaijan Bangladesh Bhutan Cambodia

Cambodia Indonesia

Kazakhstan

Kyrgyz Republic

Lao PDR

Malaysia

Maldives

Marshall Islands

Mongolia

Myanmar

Pakistan

Papua New Guinea

**Philippines** 

Solomon Islands

Sri Lanka Tajikistan

Thailand

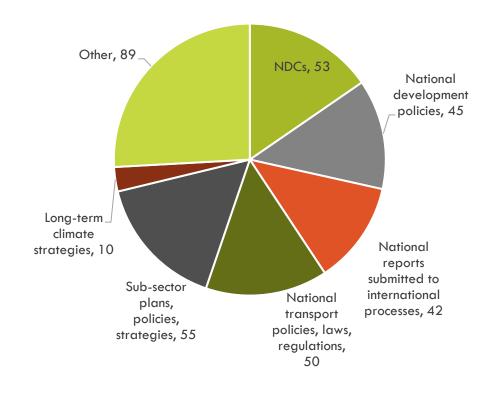
Timor-leste

Uzbekistan

Vanuatu Viet Nam

vier raili

#### Total policy documents = 344



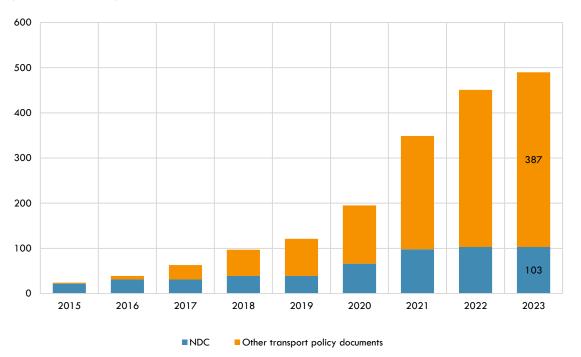




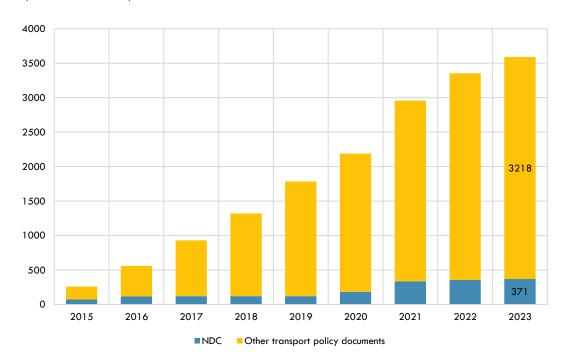
### NDCs Fall Short on capturing climate ambitions by the transport sector

"Emerging economies need more detailed and ambitious transport-related commitments in their NDCs."

## Cumulative Distribution of targets by Year of Publication (2015-2023)



## Cumulative Distribution of measures by Year of Publication (2015-2023)

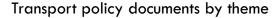


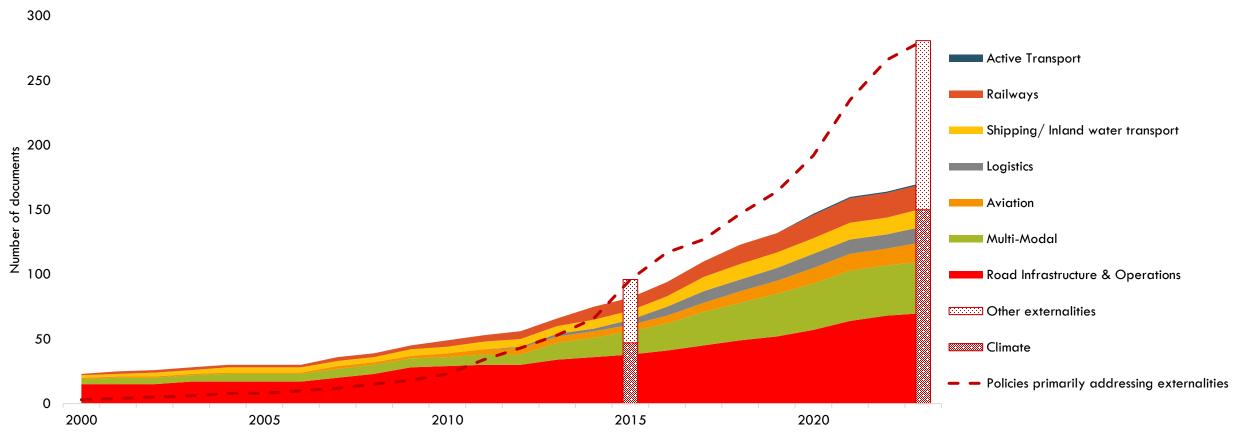






# Incremental progress in the Integration of Climate considerations into Wider Transport Policies





"While transport policies are increasingly addressing climate concerns, progress has been gradual, and more substantial action is needed"

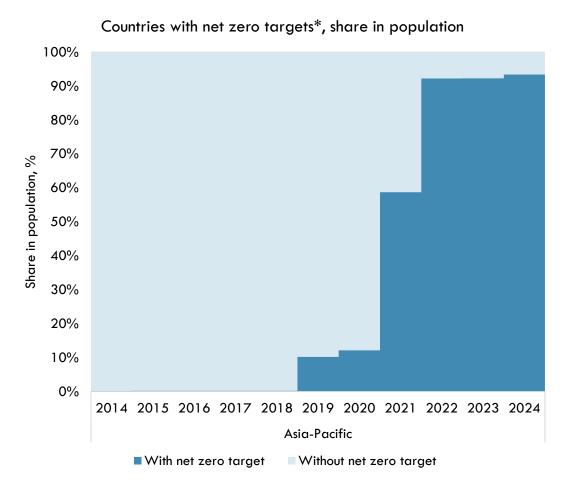




## Lack of Long-Term Ambition, and Delays in Setting Targets for Peaking of Transport Emissions



#### "Current NDCs and transport policies often need more ambitious long-term targets for emissions reduction in the transport sector."



Country	Net zero and Carbon neutrality	NDC		Other Transport Policy Documents	
		Economy- wide emissions	Transport GHG emission	Indirect transport targets	Transport GHG emission
Azerbaijan		2030			
Bangladesh		2030	2030	Modal shift, transport energy consumption	
Bhutan	2050		2030	Vehicle restrictions (import, age, access, sale, taxation)	
Cambodia	2050	2030	2030		2030
Indonesia	2060 or sooner	2030			
Kazakhstan	2060	2030			
Kyrgyz Republic		2025, 2030, 2050			
Lao PDR		2030		Biofuels, E-mobility	2030
Malaysia	2050	2030		*	2030
Maldives	2030	2030			
Marshall Islands	2050			2025, 2030, 2035	2025, 2030
Mongolia		2030	2030	E-mobility	
Myanmar		2030			
Nepal	2045			E-mobility, public transport, railway electrification	
Pakistan		2030		E-mobility	
Papua New Guinea	2030, 2050				_
Philippines		2030			2028
Solomon Islands	2050	2025, 2030, 2050			2030, 2050
Sri Lanka	2050	2030	2030	Vehicles scrappage scheme	
Tajikistan		2030			
Thailand	2030, 2050, 2065	2030	2030		2027, 2030
Timor-Leste					_
Uzbekistan		2030	_	E-mobility, LPG/ CNG/ LNG	2025, 2035
Vanuatu	2050	2030		Biofuels, E-mobility, Ship efficiency improvements, Vehicle efficiency standards	2050
Viet Nam	2050	2030			



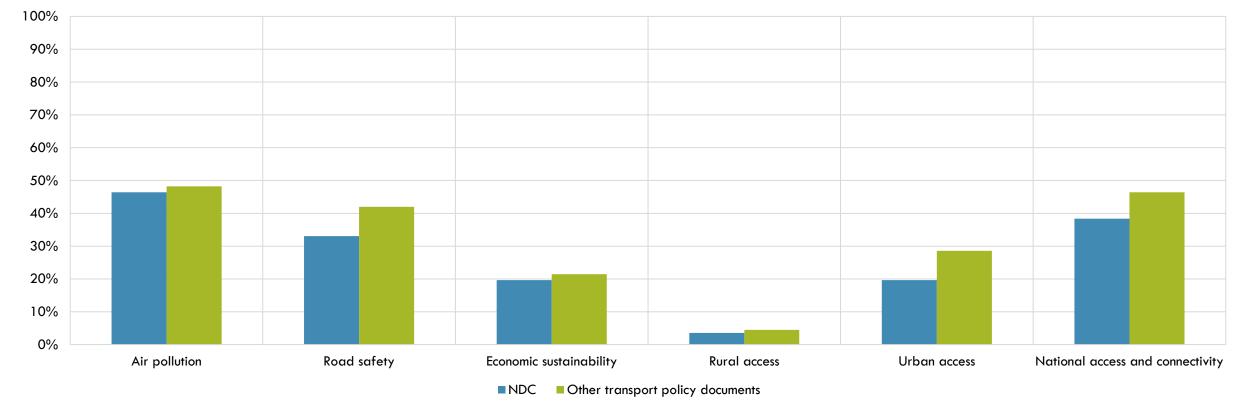




### **Need for Integrated Development Priorities**

"Effective transport mitigation and adaptation policies must align with broader development goals"

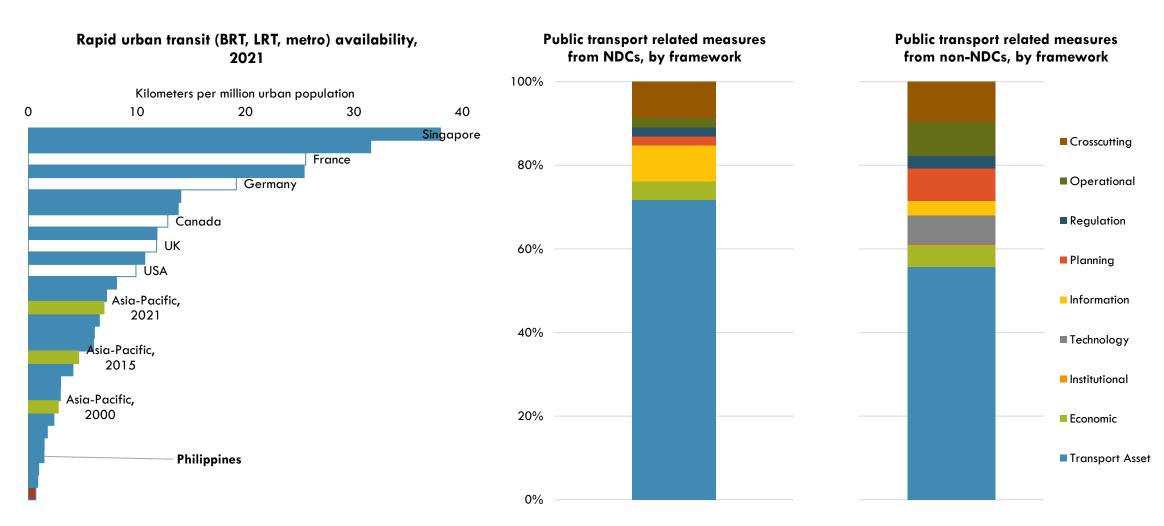
#### Share of climate documents also covering other development goals







### Addressing the Public Transit Gap



"Prioritizing the expansion and improvement of public transportation systems is crucial for both climate action and sustainable development"

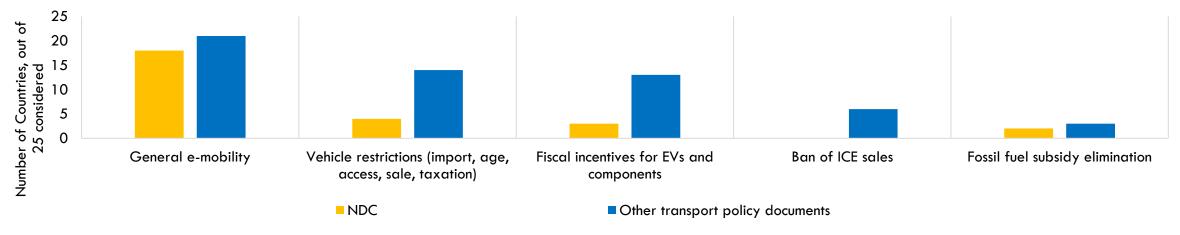




## Asian Transport Observatory

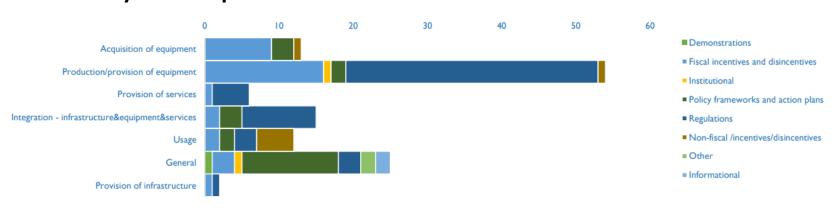
### Promoting Electric Mobility and Reducing Fossil Fuel Dependency





"While electric vehicles are gaining traction, more balanced action is needed"

### **PHL E-mobility Landscape**





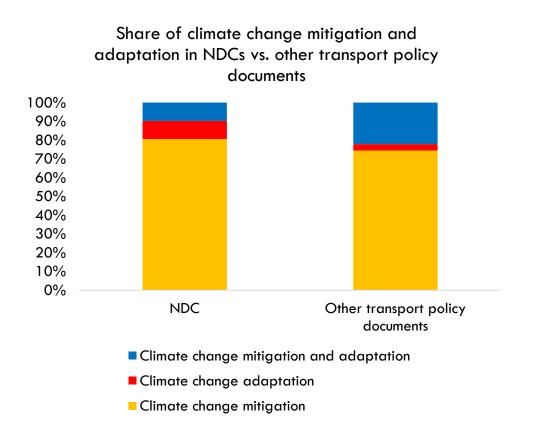






### Strengthening Transport Adaptation and Resilience

"NDCs and transport policies often overlook measures to adapt transport systems to the impacts of climate change and build resilience to extreme weather events"



Philippine Development Plan 2023-2028
National Logistics Master Plan 2017-2022
National Urban Development and Housing Framework 2017-2022
National Climate change Action Plan 2011-2028
National Transport Policy and its Implementing Rules and Regulations
Philippine New Urban Agenda (PhiNUA)
Comprehensive Roadmap for the Electric Vehicle Industry

Also includes DRRM

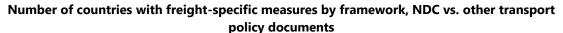


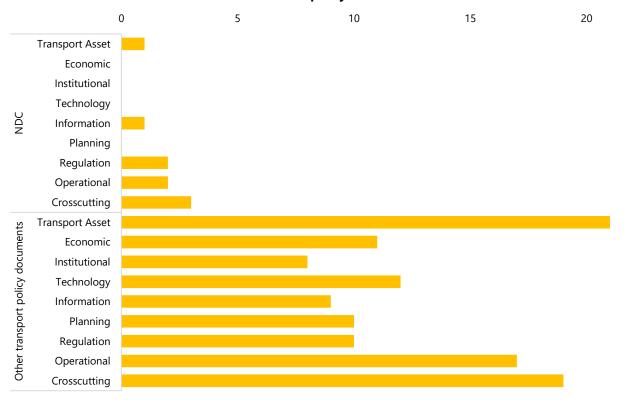


### Freight Decarbonization: A Climate Blind Spot Amidst Rapid Growth

25







- National Logistics Master Plan 2017-2022
- Philippine Development Plan 2023-2028
- National Transport Policy and its Implementing Rules and Regulations
- Maritime Industry Development Plan 2019-2028
- Philippines Action Plan on CO2 Reduction aviation

"Urgent action is needed to decarbonize the freight and logistics sector, which currently remains a significant source of emissions"

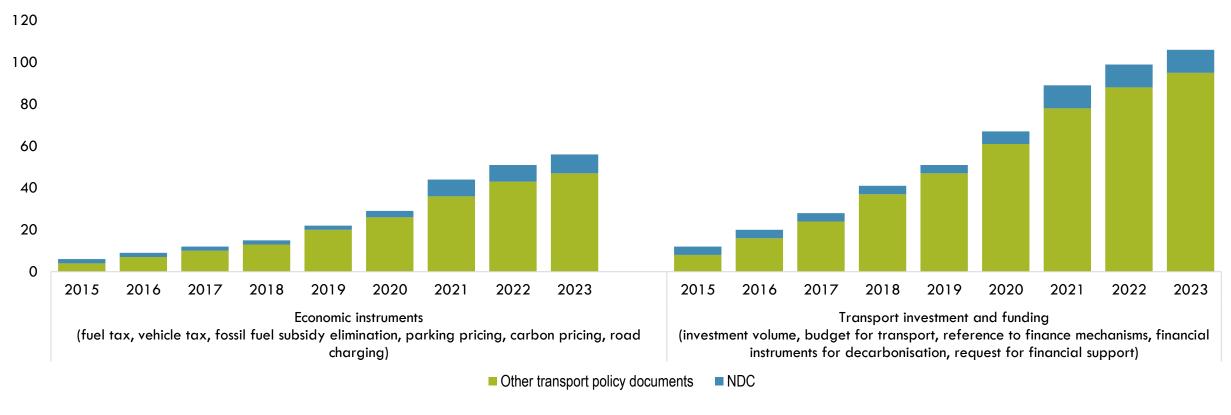






### Increasing the Availability and Access to Transport Economic Instruments





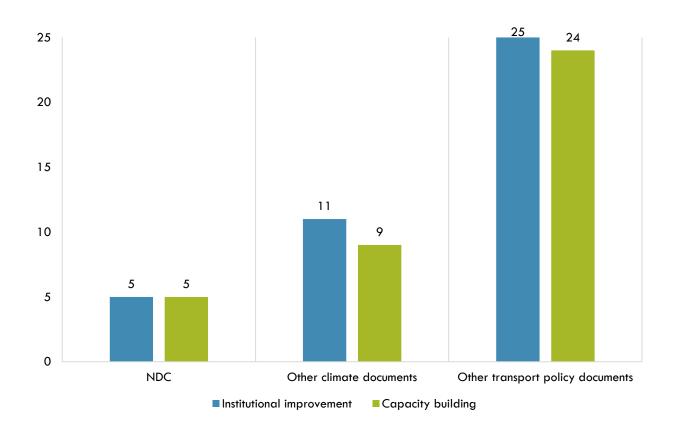
"Facilitating access to adequate financing is crucial for implementing necessary transport projects and reforms"







### **Prioritizing Institutional Strengthening and Capacity Development**



- Maritime Industry Development Plan 2019-2028
- National Logistics Master Plan 2017-2022
- Philippine Road Safety Action Plan 2023-2028
- National Transport Policy and its Implementing Rules and Regulations
- Philippine Development Plan 2023-2028
- National Climate change Action Plan 2011-2028
- Technology Needs Assessment for Climate Change Mitigation
- Philippine Energy Plan 2020-2040

"Building institutional capacity and technical expertise will be vital for successful implementation as the policy landscape evolves."





#### Asian Transport Observatory

### In summary



### Priority areas for action:

- Raising the bar towards more ambitious targets and measures for reducing transport sector emissions
- Integrating climate considerations into broader transport policies and aligning them with sustainable development goals AND vice versa
- Prioritizing the expansion and improvement of public transportation systems
- Promoting electric mobility and **phasing out fossil fuel subsidies** and internal combustion engine vehicles
- Strengthening transport adaptation and resilience to climate change impacts
- Addressing the growing emissions from freight transport
- Increasing the availability and accessibility of transport finance
- Building institutional capacity and technical expertise for effective policy implementation.







## asiantransportobservatory.org





Databases -

Analytical Outputs -

Updates

About -

#### Knowledge base on transport in the Asia-Pacific

A leading platform that gathers and shares comprehensive datasets, generate unique policy insights, and delivers novel knowledge products rooted in groundbreaking analysis.

Q road infrastructure



#### **ATO National Database**

Access over 450 transport indicators divided over eight main categories



#### National Transport Policy Documents

Browse through content on how to use the ATO databases



#### **ATO Urban Database**

Access over 450 transport indicators divided over eight main categories



#### ATO Cost Database

Access over 450 transport indicators divided over eight main categories



#### **ATO Analytical Outputs**

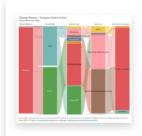
Get all the relevant information on transport through factsheets, reports and storylines







## **ATO** Insights: Interactive visualisations



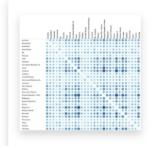
### Climate Financing: Transport Sector in Asia - Visualization 2024-11-26

The dashboard presents a detailed overview of climate finance flows specific t regional trends, funding distribution, and sources of investment.

Interactive

Visualization

Tags: Climate, Climate finance



#### Liner Connectivity Index - Visualization

2024-11-08

The Liner Shipping Bilateral Connectivity Index (LSBCI) provides a comprehensive me between pairs of countries, capturing their level of integration into global liner shipping

Interactive

Visualization

Tags: connectivity, Sustainable Transport, Maritime Transport, Global Trade, Supply chain



#### Transport CO2 Emissions Visualization Tool

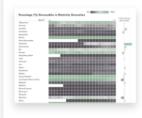
2024-11-18

ATO has created a visualization / animation tool using the data from IEA-EDG/data from 1990 onwards is represented in the visualization tool which aims at magnitude, direction, and speed of change in transport-sector emissions, ...

Interactive

Visualization

Tags: emissions



#### $\label{lem:condition} \textbf{Renewable Energy Share in Electricity Generation - Visualization}$

2024-10-30

The renewable energy (RE) share in electricity generation (%) refers to the proportion renewable sources such as wind, solar, hydro, and geothermal.

Interactive

Visualization

Tags: energy, e-mobility, electrification



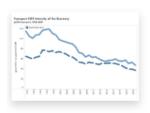
### Urban Access to Public Transport - Visualization 2024-10-24

Access to public transport plays a critical role in creating inclusion Access to Public Transport—focuses on how well urban resident social equity, environmental sustainability, and economic opport

Interactive

Visualization

Tags: urban access, cities, public transport, urban centers



#### Transport CO2 Intensity of the Economy

2024-10-15

Interactive Visualization

Tags:





## asiantransportobservatory.org

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

alvin.mejia@asiantransportobservatory.org

ATO Team info@asiantransportobservatory.org

Andres Pizarro andres.pizarro@aiib.org

Manuel Benard manuel.benard@aiib.org

Alvin Mejia alvinmejia@asiantransportobservatory.org

**Sudhir Gota** sudhirgota@asiantransportobservatory.org

Mel Francis Eden meleden@asiantransportobservatory.org

Adwait Limage adwait@asiantransportobservatory.org

benjaminsocco@asiantransportobservatory.org

**Benjamin Socco**