

Insights from the Asian Transport Observatory

ASIAN LOW-CARBON TRANSPORT TRENDS

Sudhir Gota & Alvin Mejia

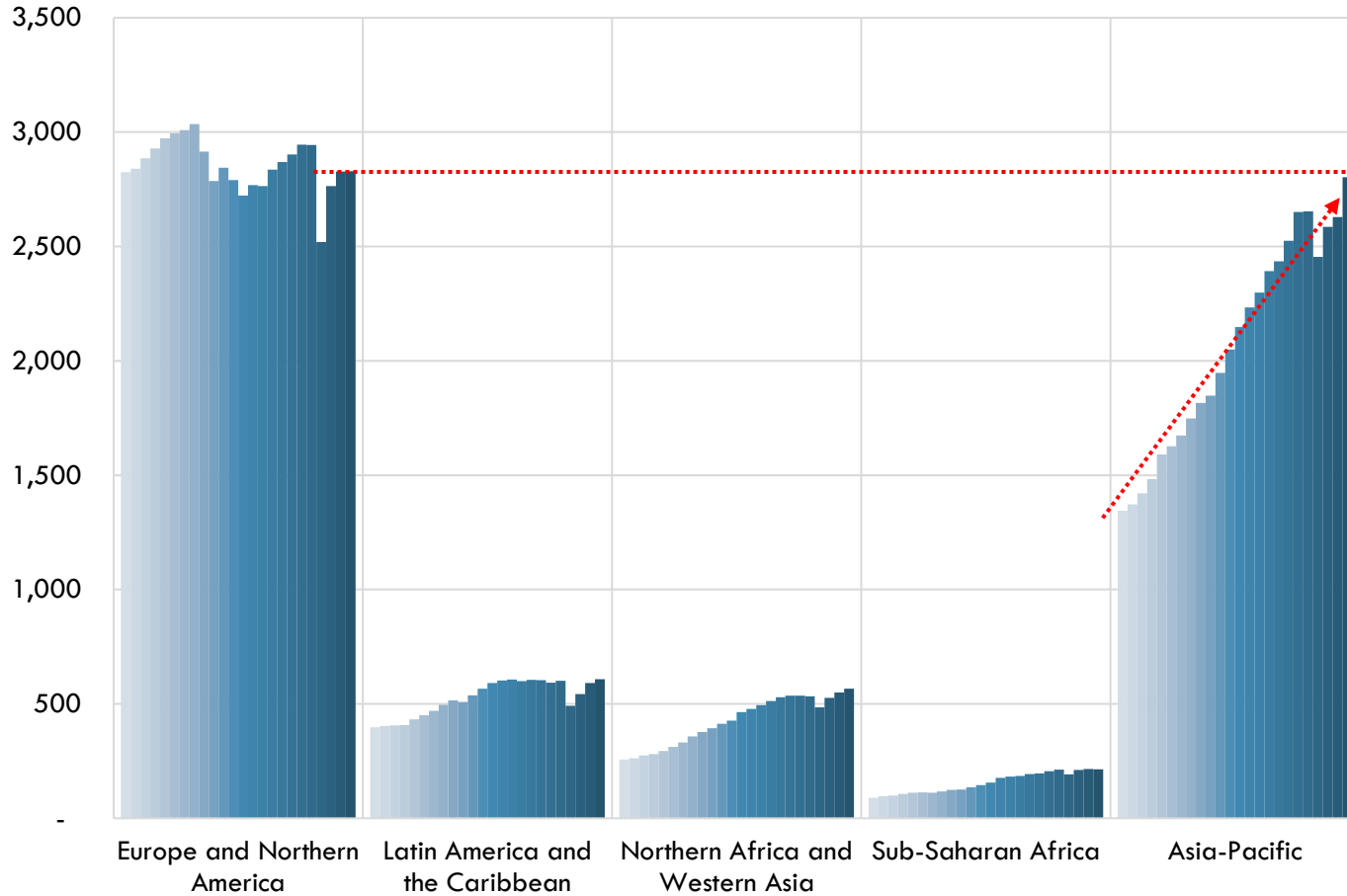
Co-Team Leads
Asian Transport Observatory

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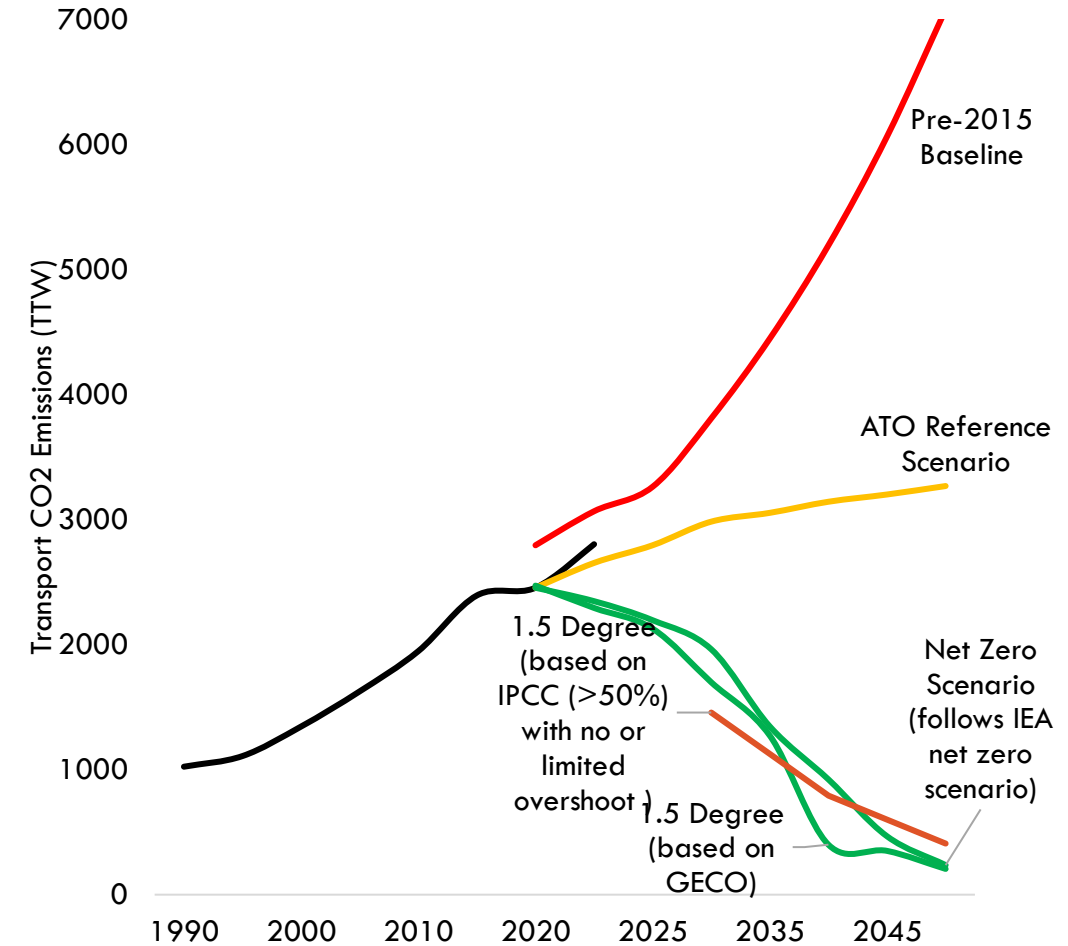
1) Transport CO2 Emissions

Domestic Transport CO2 Emissions, 2000-2023, Million Tonnes of CO2 Emissions

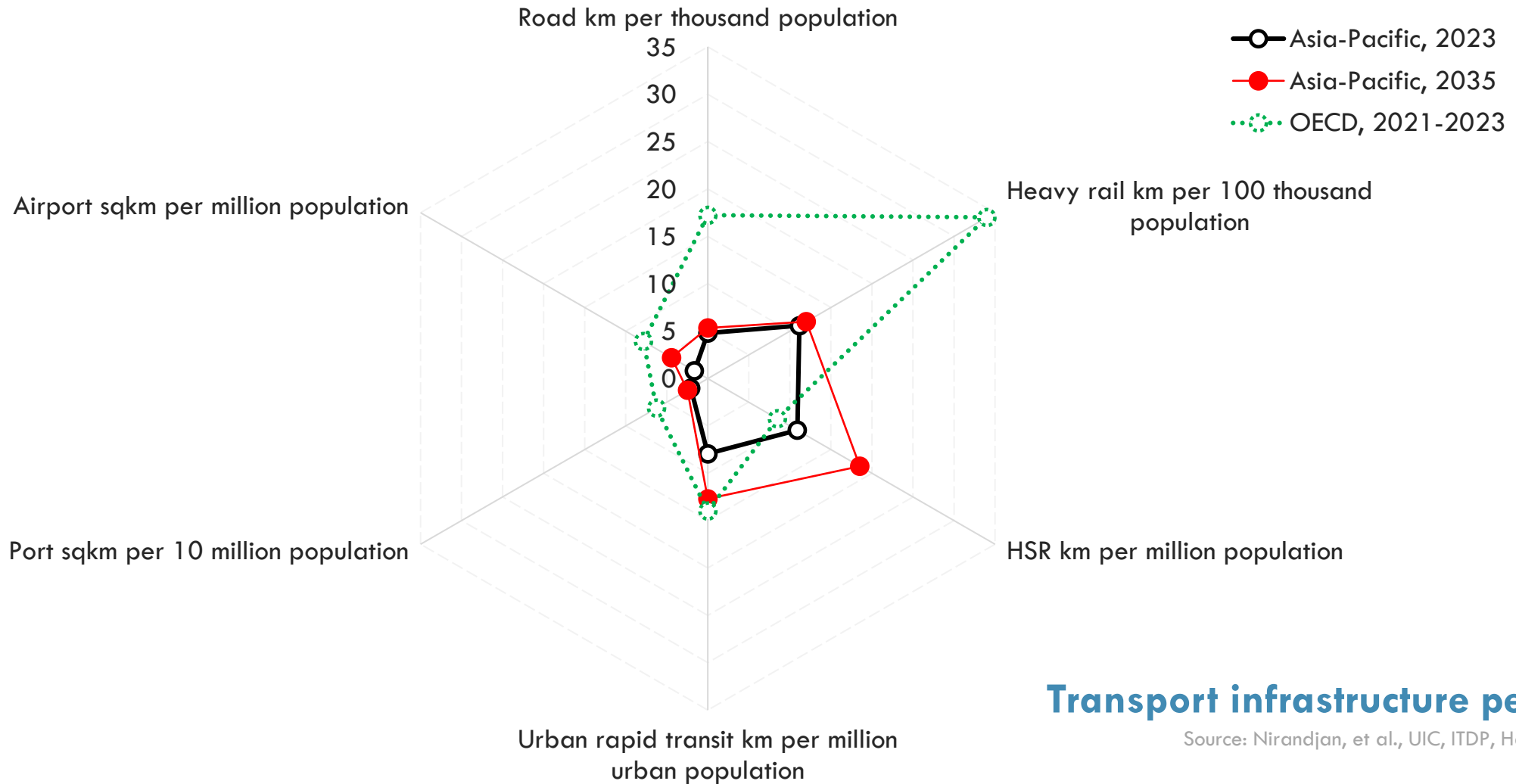


Source: Crippa, et al.

Transport CO2 Emissions in Asia



2) Transport Infrastructure Gap



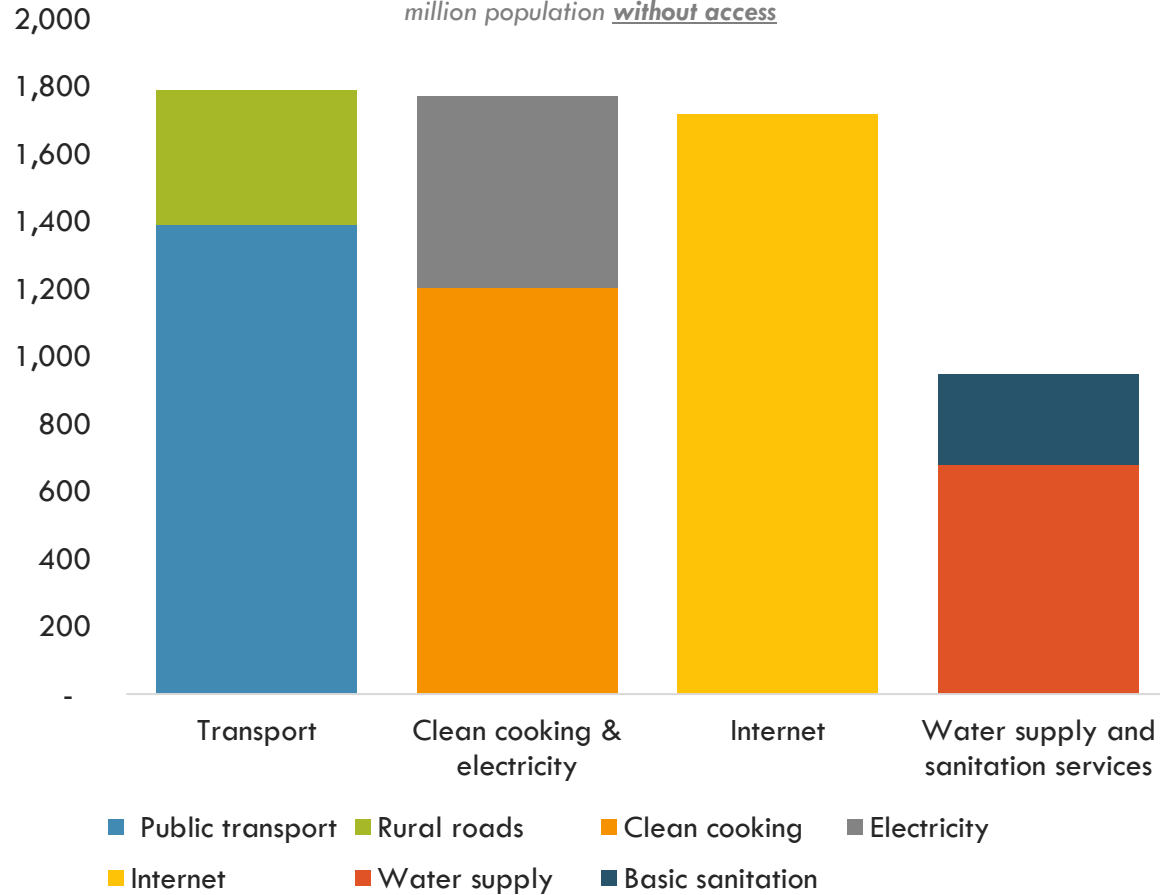
Transport infrastructure per capita

Source: Nirandjan, et al., UIC, ITDP, Hanson & Nicholls

3) Transport Access and Connectivity Gap

Access gap in Asia, transport vs. other sectors

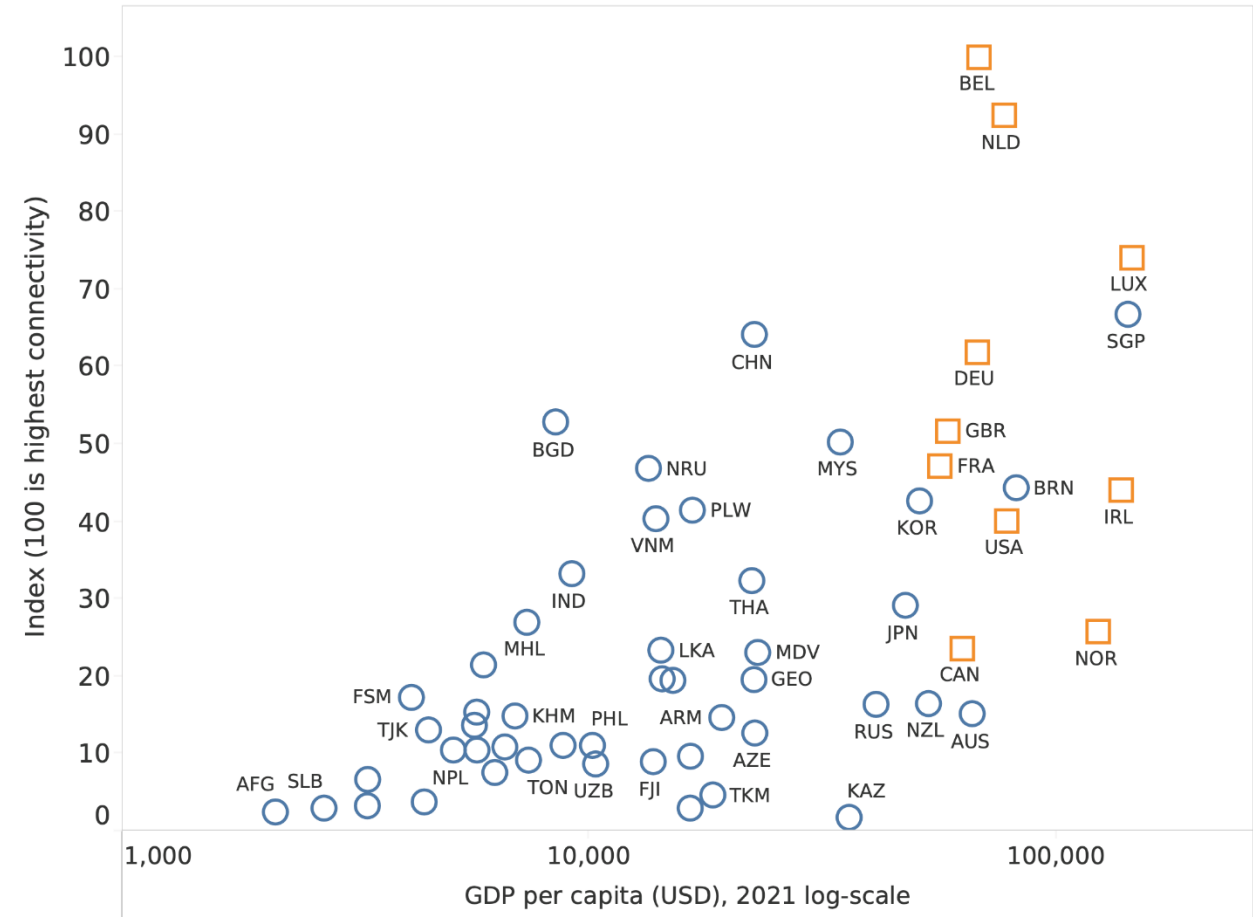
million population without access



Source: CIESIN, Tracking SDG 7, ITU, World Bank

REMOTENESS INDEX:

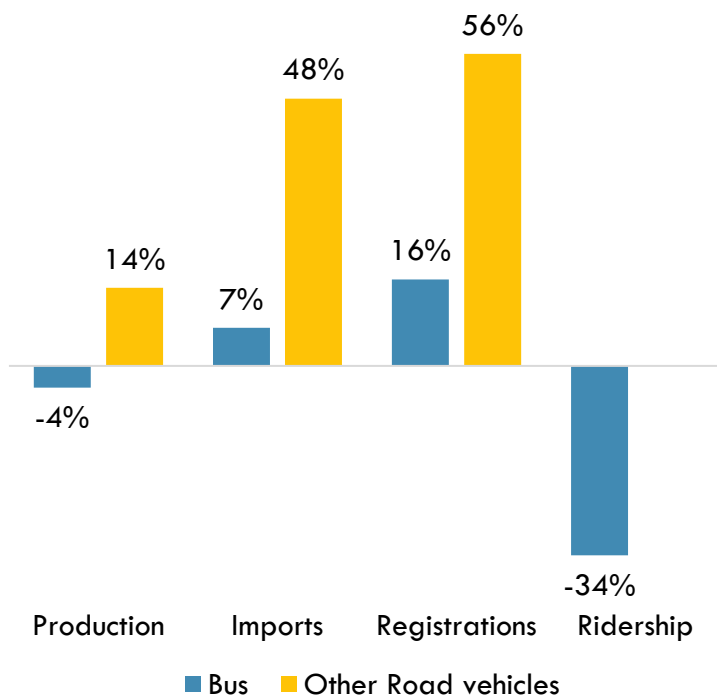
Transport connectivity



Source: UNCTAD

4) Stagnating Public Transport

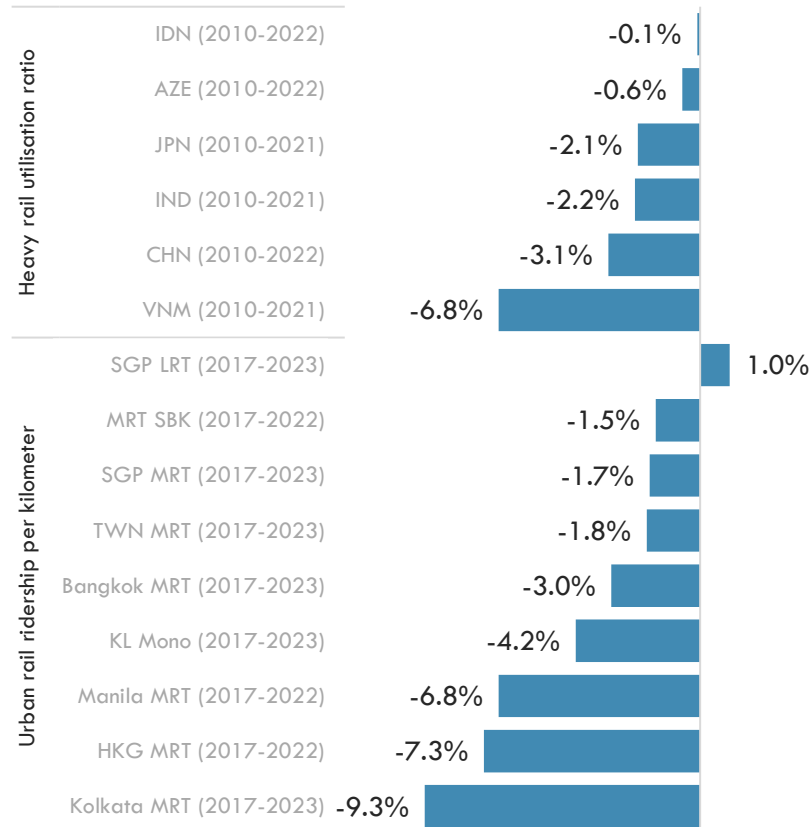
Bus vs. Other road vehicle – trends, 2015-2023



Ridership includes other informal modes of transport
Registration and Ridership data is for 2015 to 2022

Source: OICA, Trademap, Country official statistics

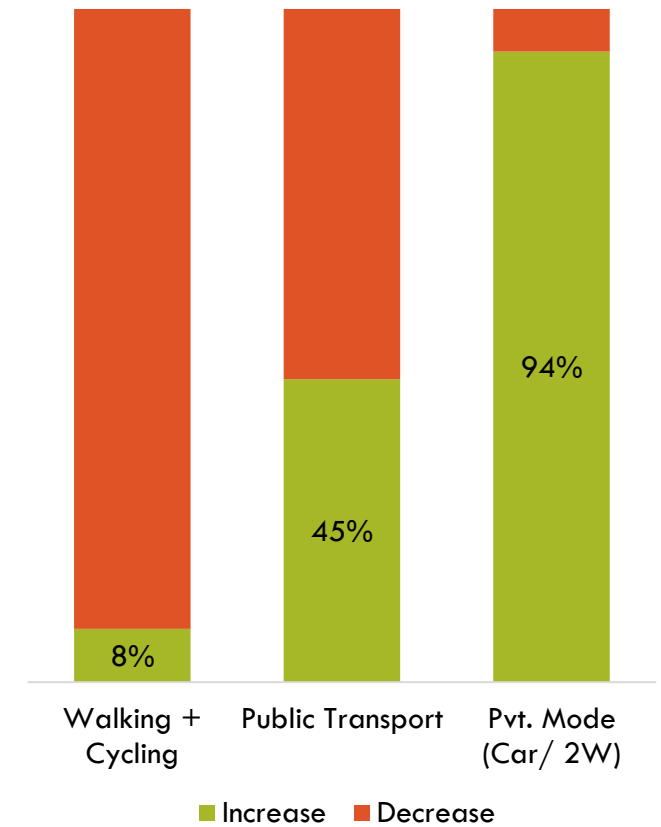
Decreasing rail activity per kilometer



* combined passenger-km and tonne-km per kilometer of infrastructure

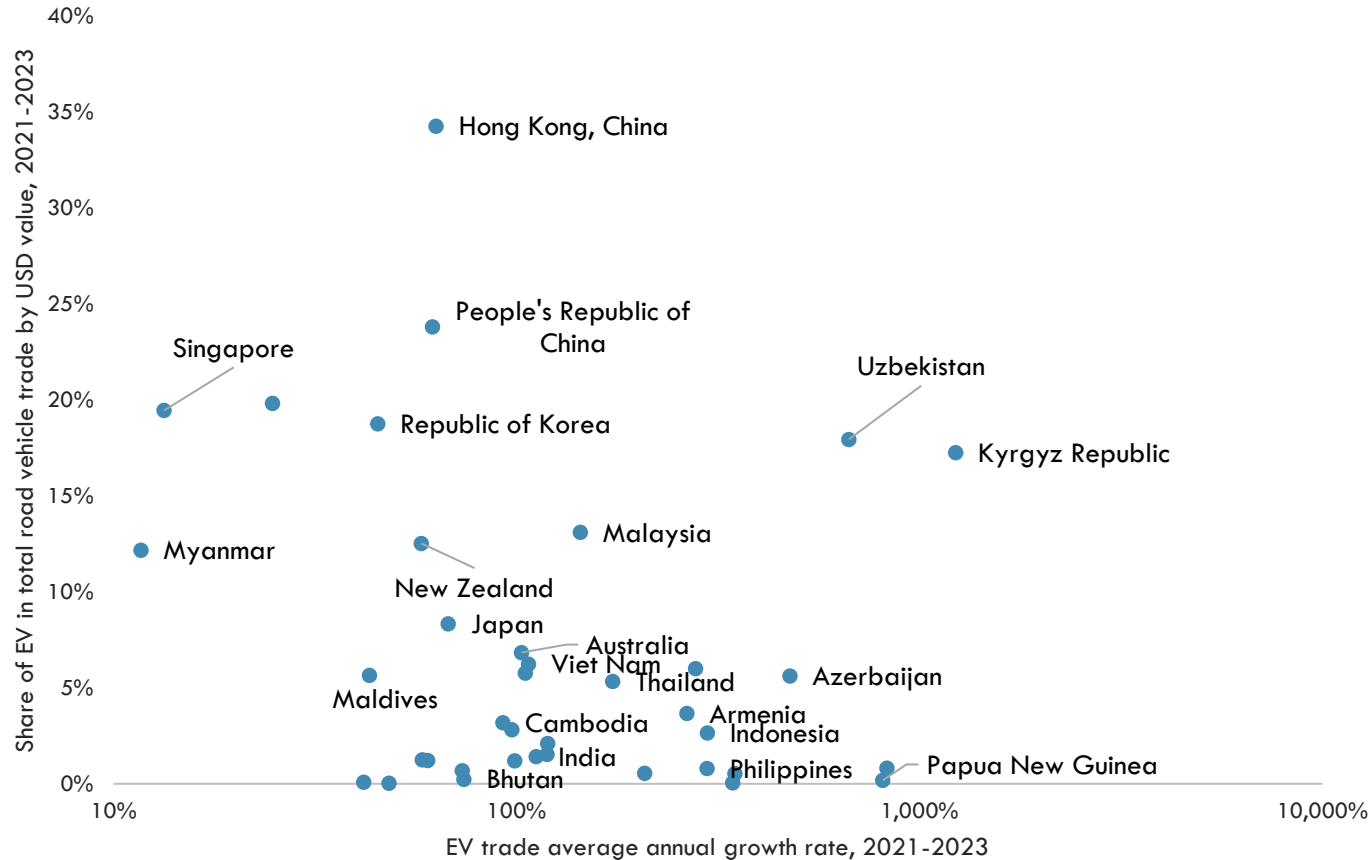
Source: UIC, Country official statistics

Mode share trend in 80 cities, 2018-2023



Source: Google Environmental Insights Explorer

5) Technology – Facing Tailwinds?



Source: Trademap

IN 2024...

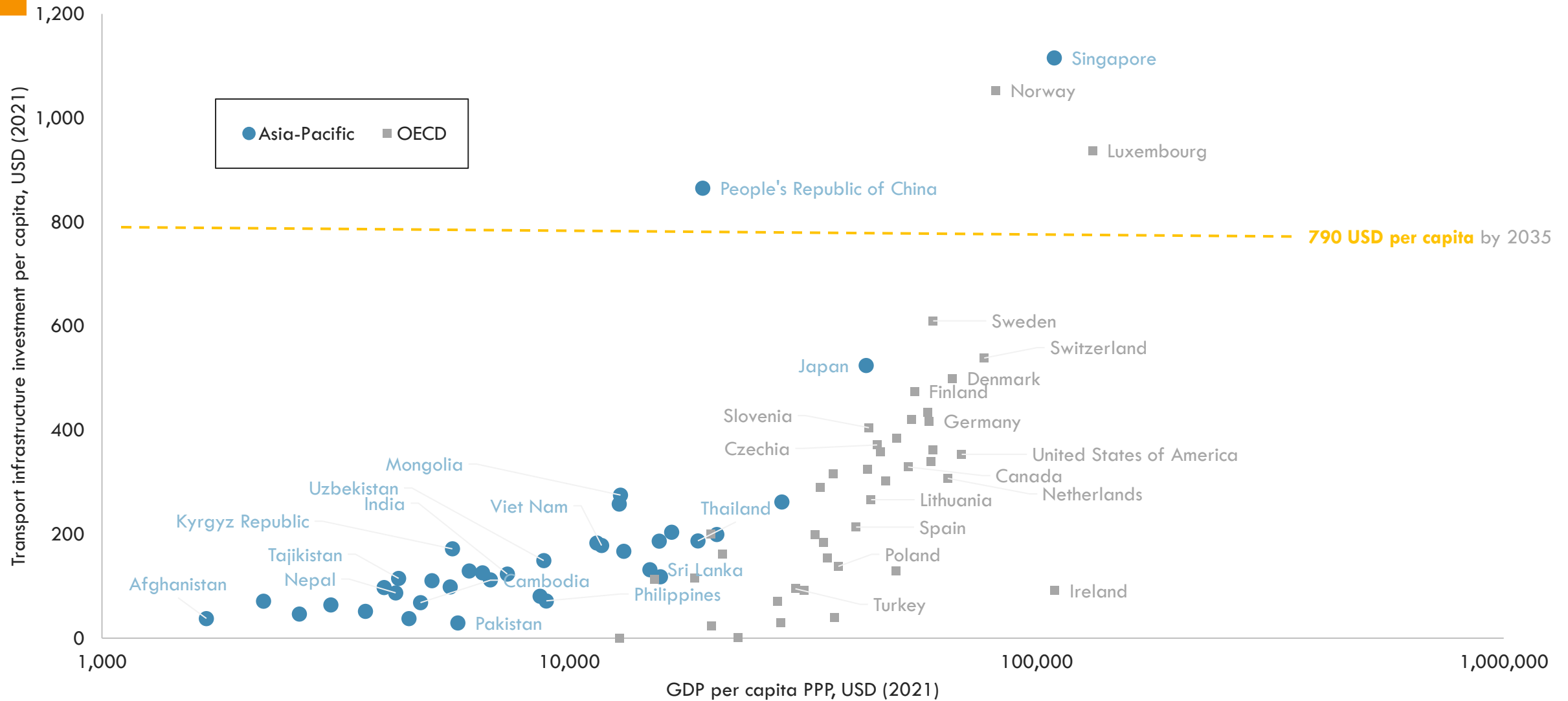
88% of electric and hybrid vehicle registrations in the world are in Asia

29% of countries have developed dedicated electric mobility policies/strategy

56% of countries have developed electric vehicle targets

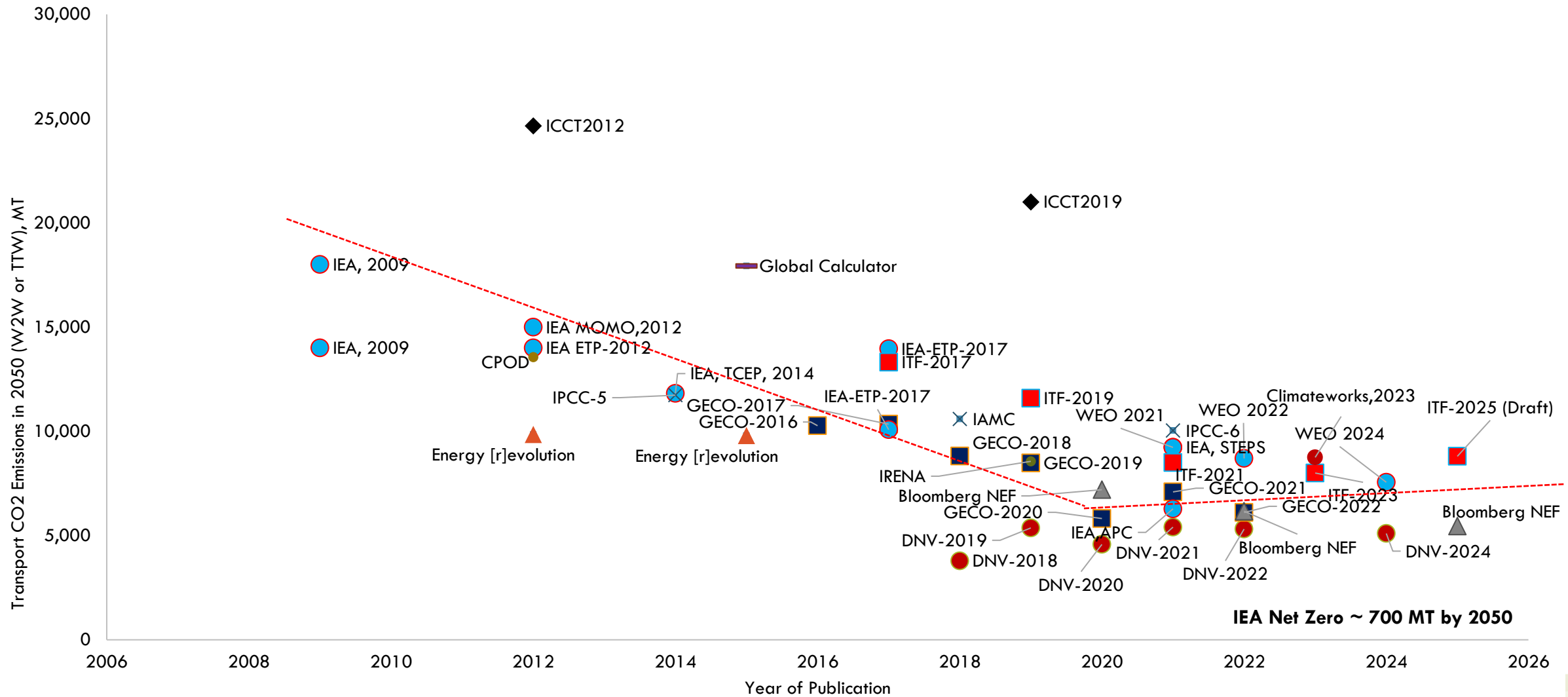
- In 42/51 economies, EV trade was growing faster than ICE vehicle trade
- In 32 countries, EV was growing at least twice faster than ICE vehicle trade

6) 2035 Infrastructure Outlook



Source: ATO, OECD

7) Global Transport Decarbonisation – Facing Headwinds?



asiantransportobservatory.org

***“ATO translates data into
insights, policies, and
investments”***

ATO Team	info@asiantransportobservatory.org
Jamie Leather	jleather@adb.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 Limaye	adwait@asiantransportobservatory.org
Benjamin Soco	benaminsoco@asiantransportobservatory.org