

Urban Transport and Accessibility: Papua New Guinea

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Asian Transport Observatory

Moving Towards Efficient, Resilient, Low Carbon and Accessible Port Cities in
Asia-Pacific Small Island Developing States (SIDS) to Achieve Better Transport
Connectivity and Accessibility for All
October 8, 2025



Asian Transport Observatory

Strengthening the knowledge base of transport in Asia-Pacific

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

asiantransportobservatory.org



ATO National Database

Explore over 450 transport indicators from 51 economies divided across nine categories



ATO National Transport Policy Documents Database

Explore close to 1100 transport policy documents in Asia and the Pacific



ATO Urban Database

Explore more than 260 urban level transport indicators across nine categories



ATO Cost Database

Explore more than 1,300 transport-related projects and benchmark their costs within subregions or income groups in Asia and the Pacific



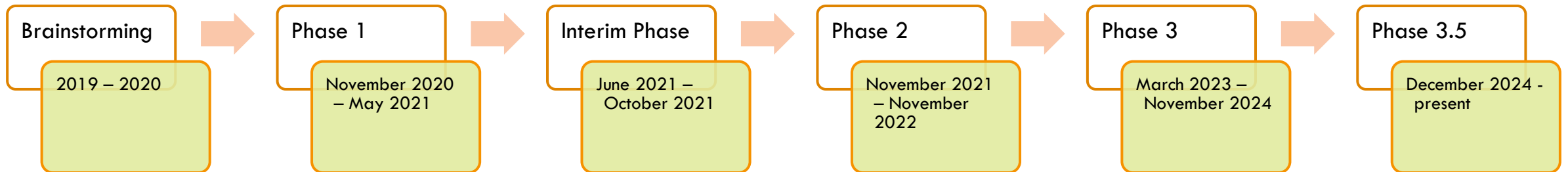
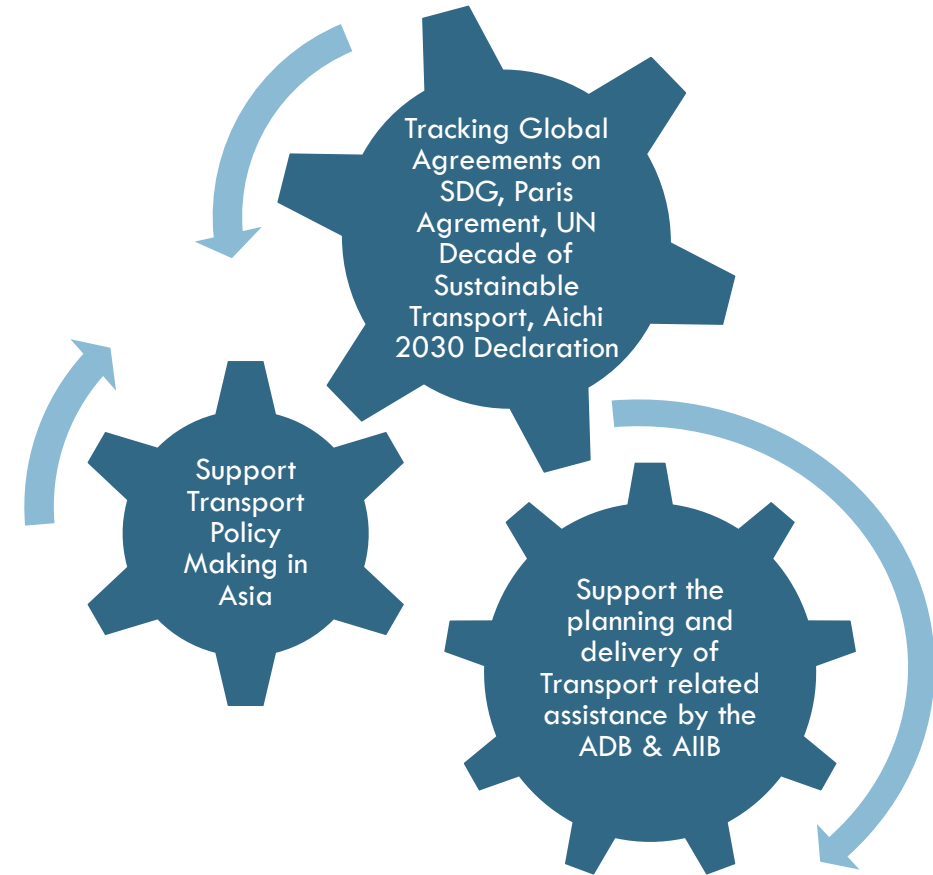
ATO Analytical Outputs

Read about analysis made using ATO transport data and policy information

Asian Transport Observatory (ATO)

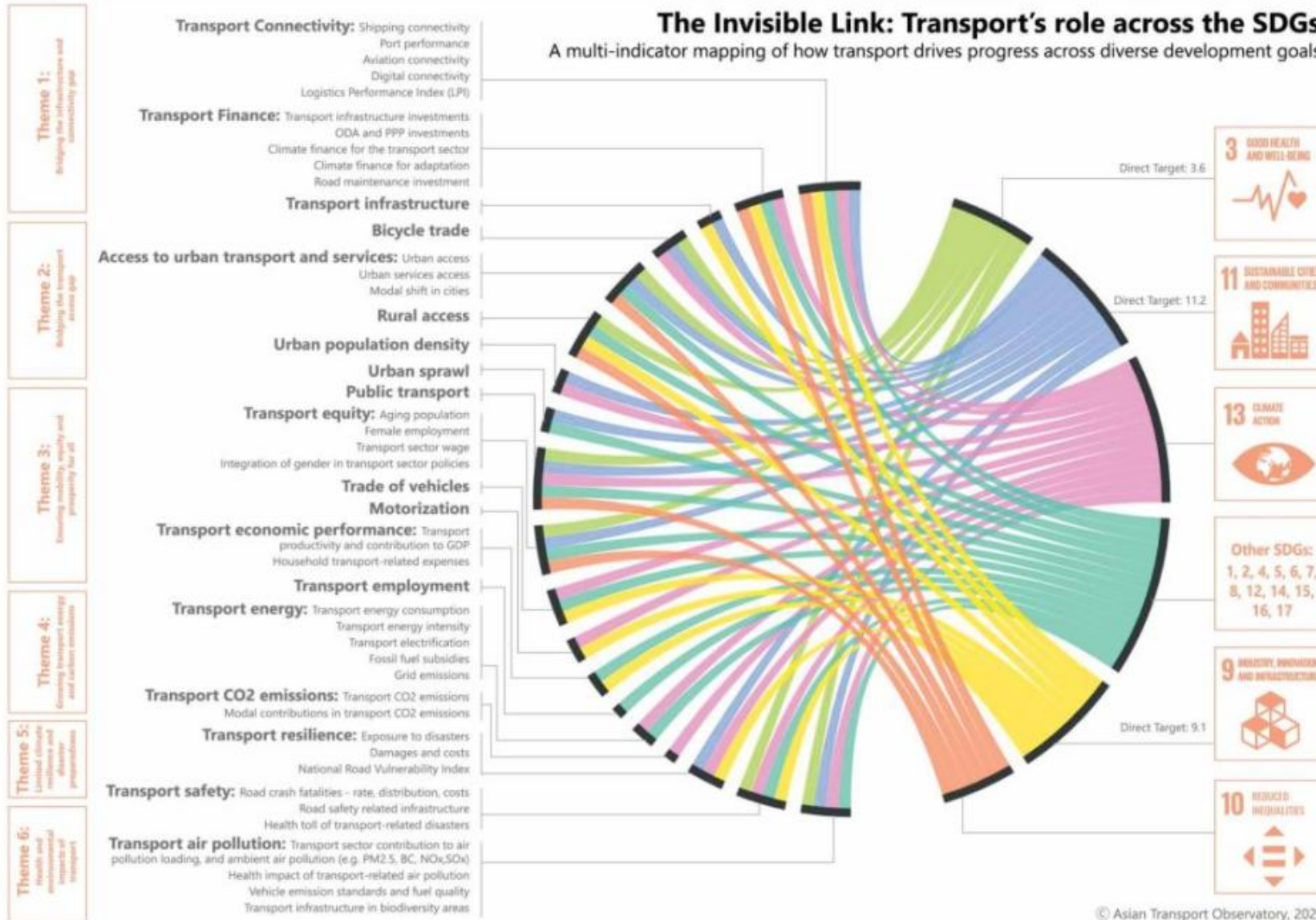
A Catalyst for Sustainable Transport in Asia

- 52** Economies (ADB Members + Russia and Iran)
- 460** Urban Centers (412 Asia-Pacific, 48 International)
- 51** Urban Centers with a detailed data
- 700** Indicators
- 430k** Data points
- 1.2k** Policy documents



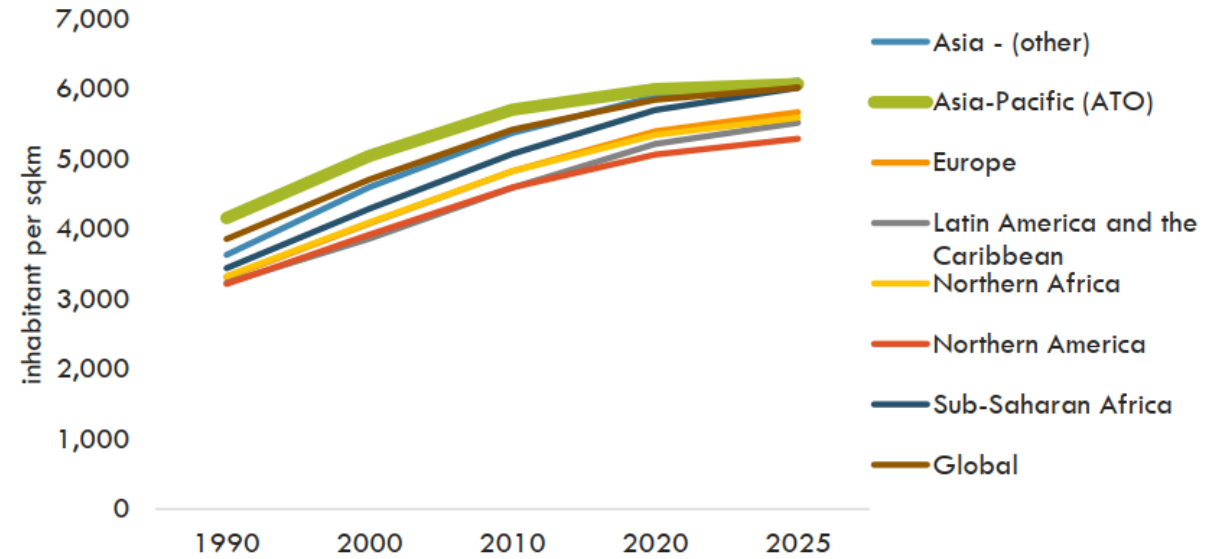
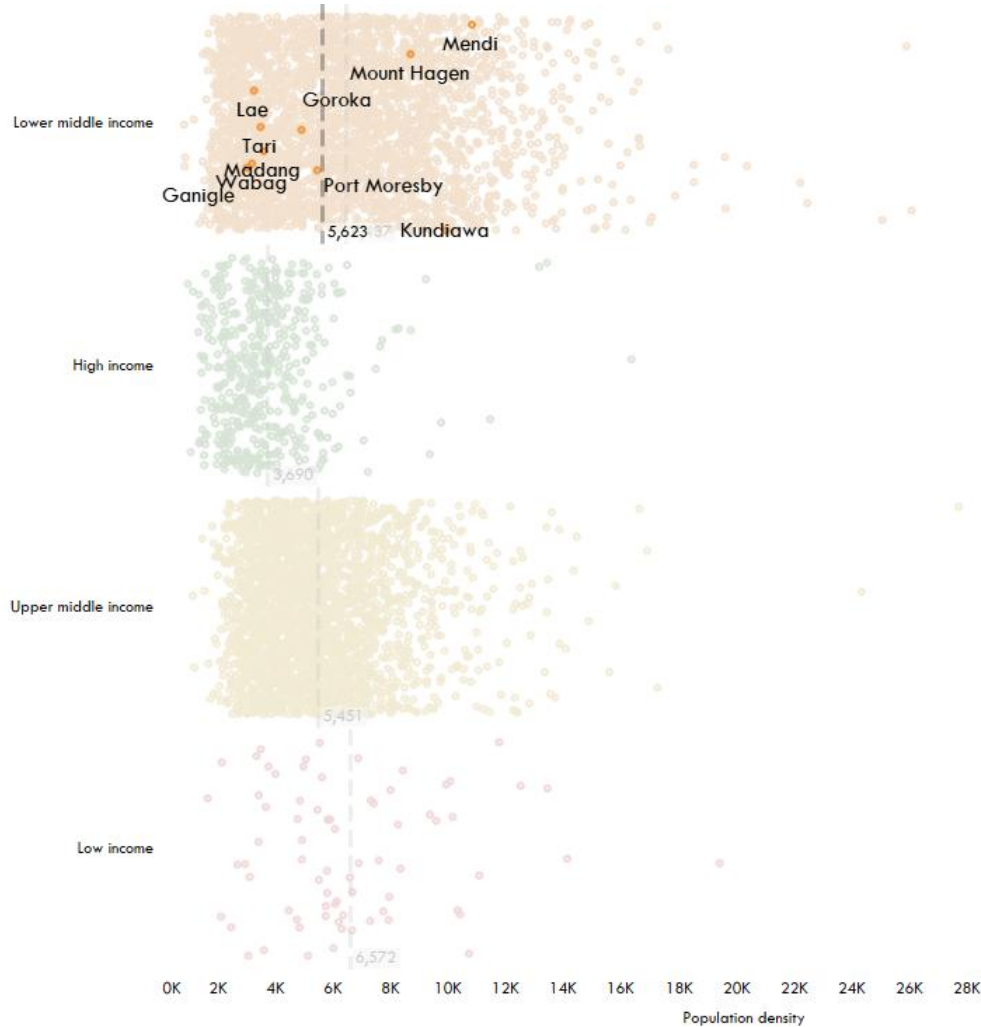
The Invisible Link: Transport's role across the SDGs

A multi-indicator mapping of how transport drives progress across diverse development goals

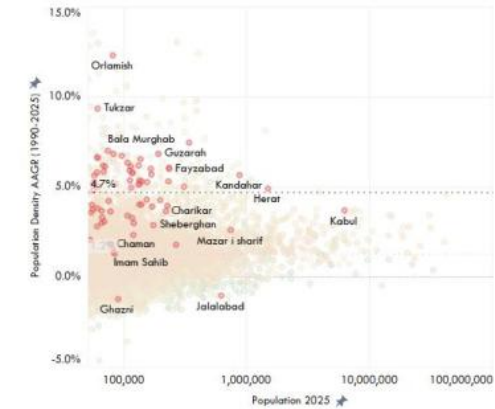
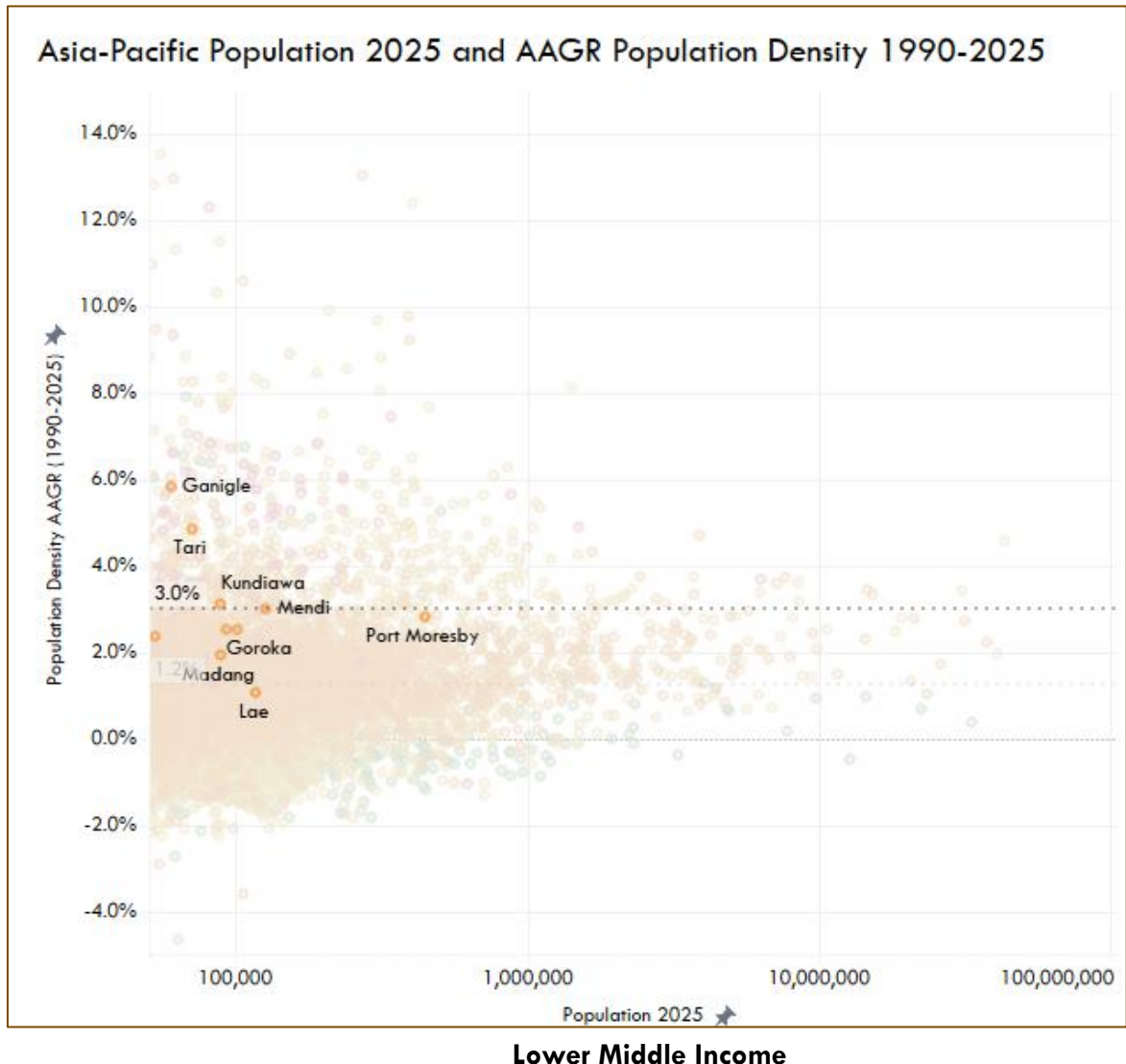


© Asian Transport Observatory, 2025

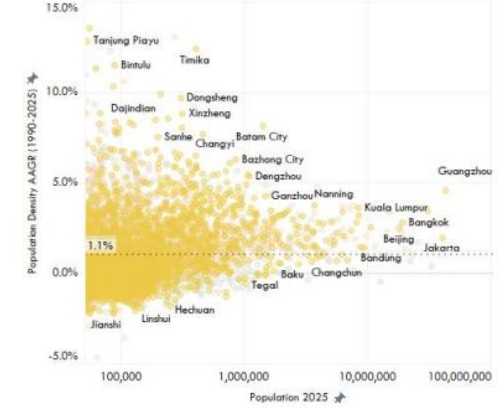
Urban Population Densities



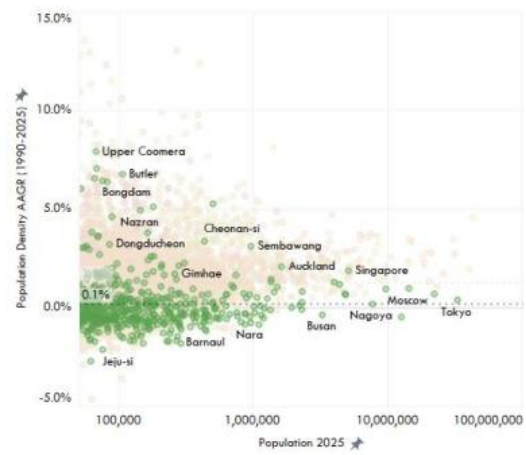
Urban Population Densities – Rates of Change



Low Income



Upper middle income

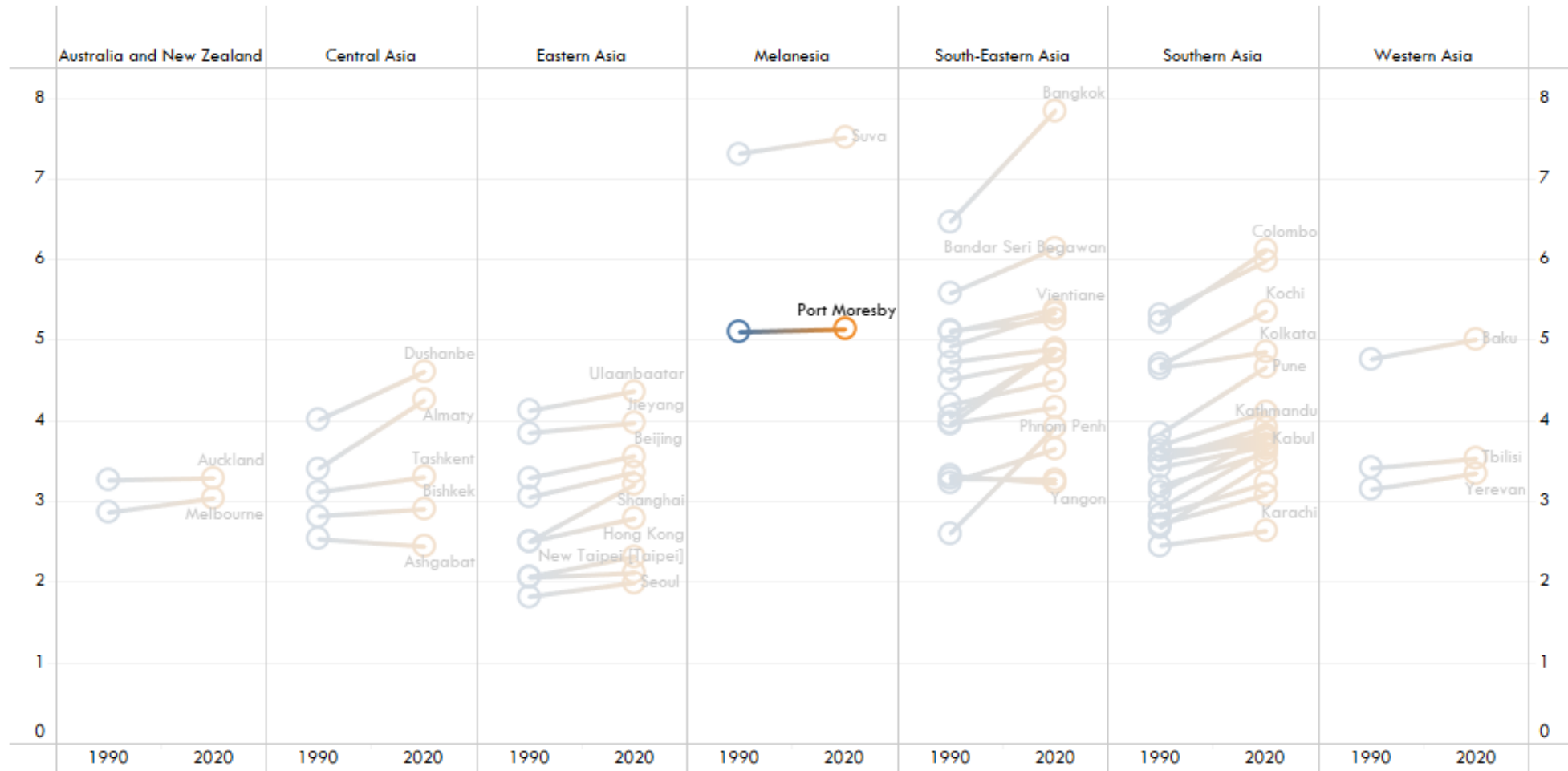


High Income

- Low income
- Lower middle income
- Upper middle income
- High income

Street Network Disconnectivity

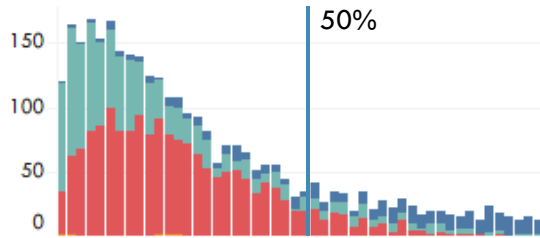
Street Network Disconnectivity Index



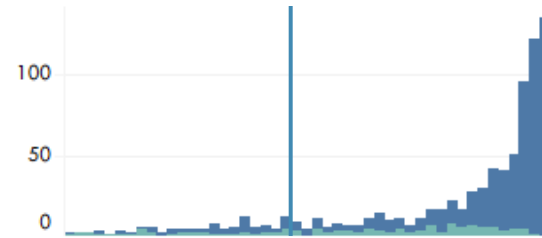
Access to Public Transport

Distribution of Urban Centers based on Population % with Convenient Access to Public Transport

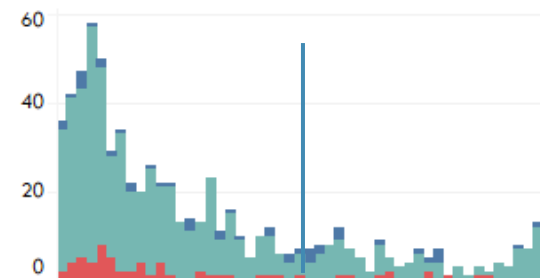
Asia-Pacific



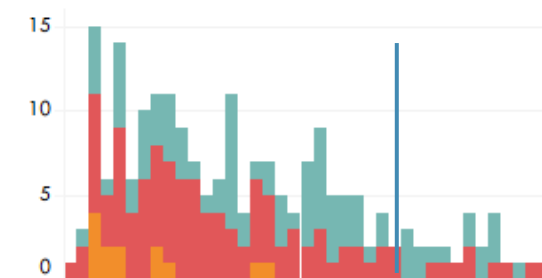
Europe



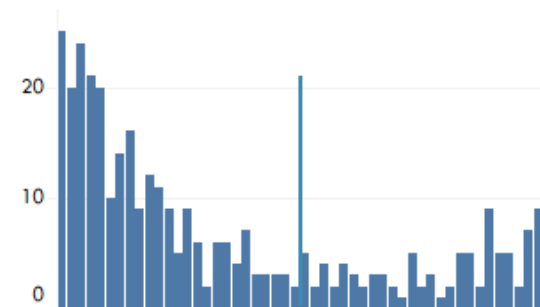
Latin America and the Caribbean



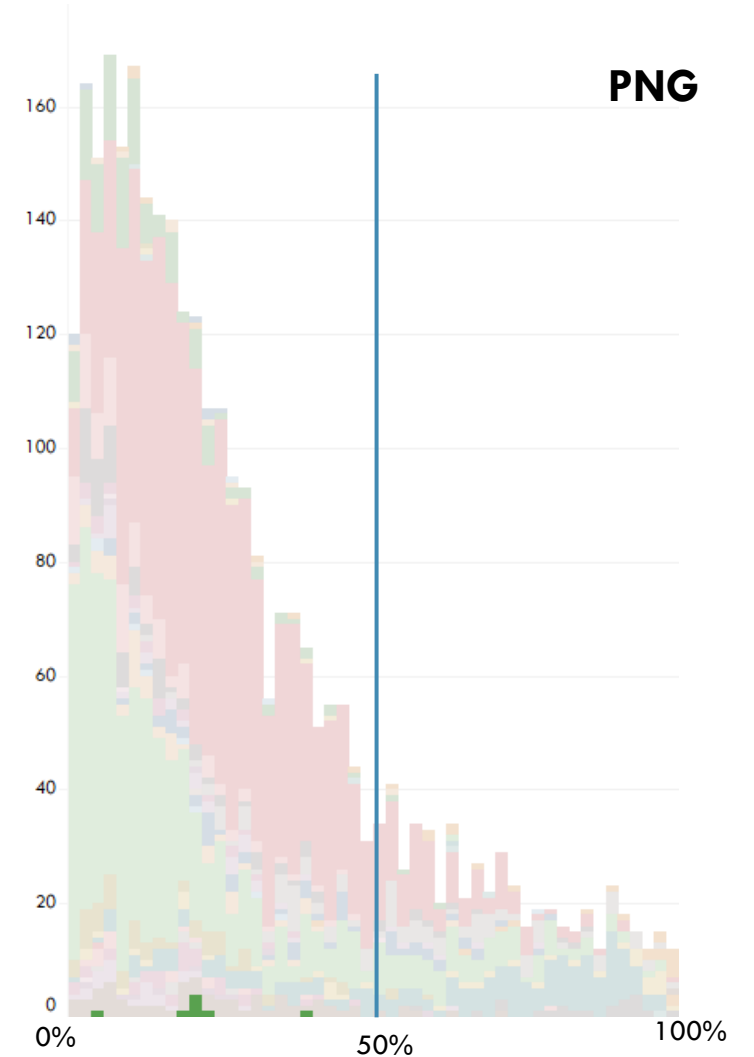
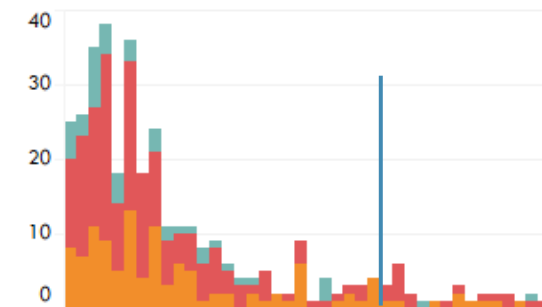
Northern Africa



North America



Sub-Saharan Africa



National Capital District – Using Open Data

Inputs:

- Population counts : <https://www.worldpop.org/>
- Public transport amenities/facilities – Open Street Map



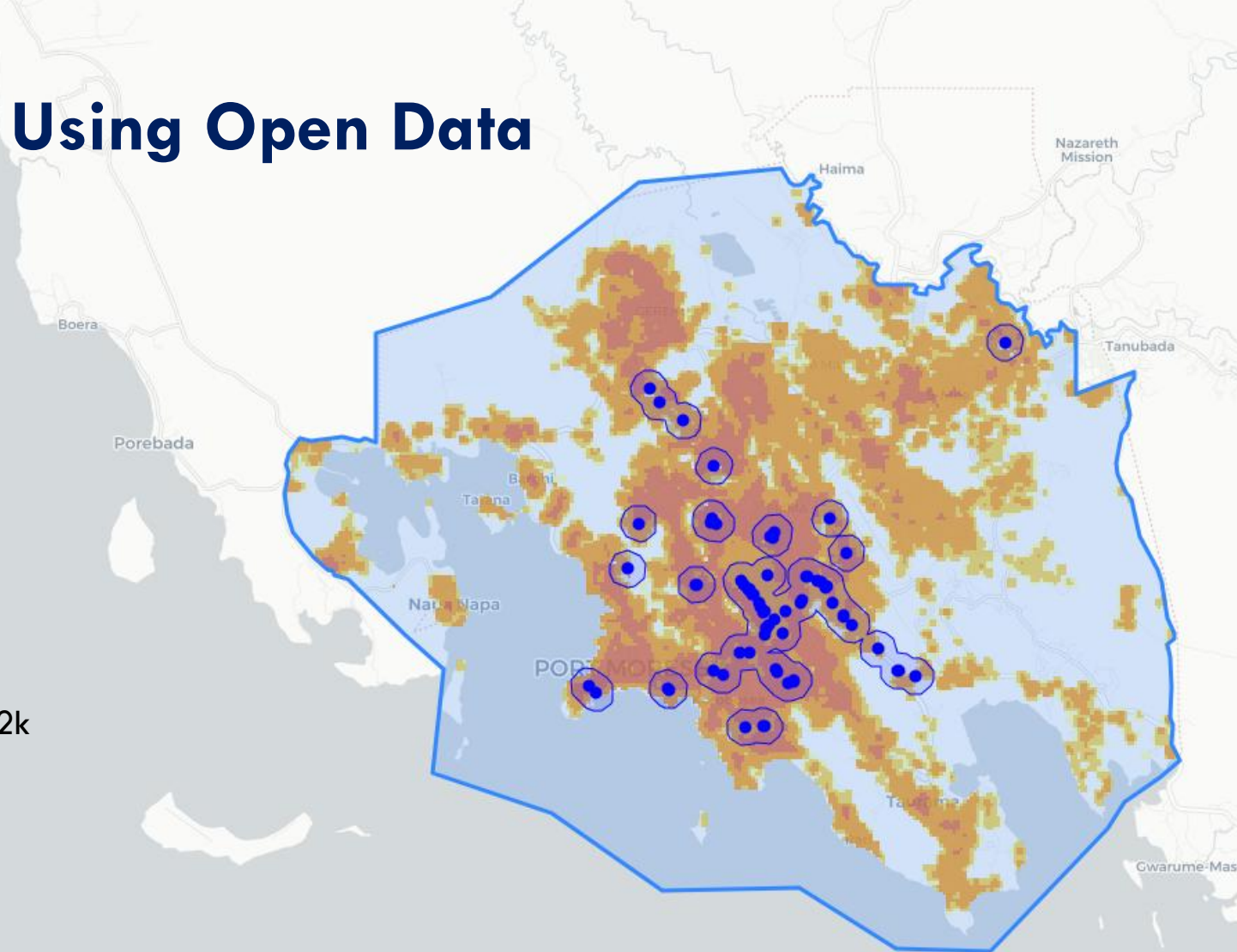
Total population in boundary: 516k



Population within 500m of public transport stations: 112k



Coverage: 22%

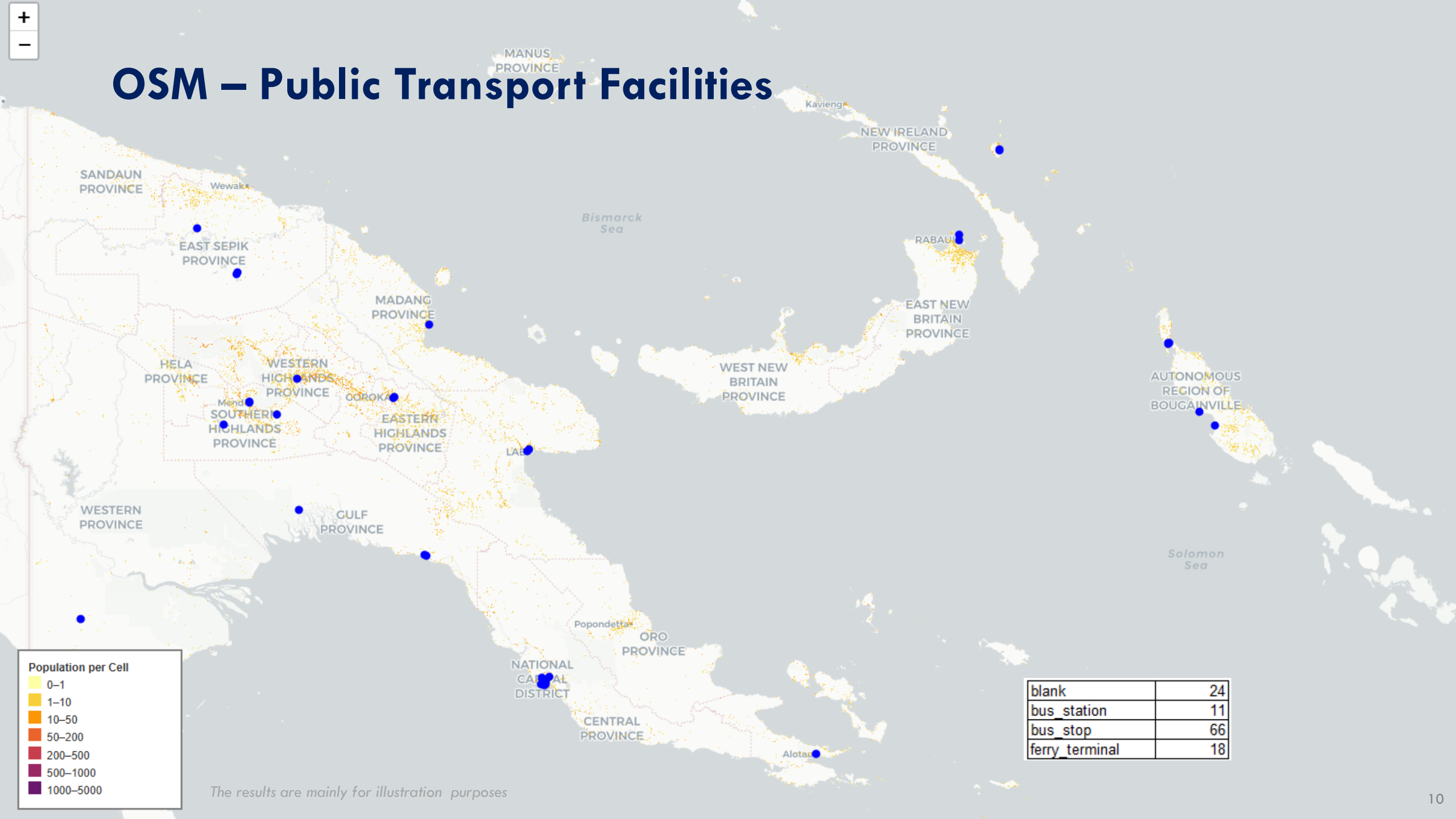


Population per Cell

0-1
1-10
10-50
50-200
200-500
500-1000
1000-5000

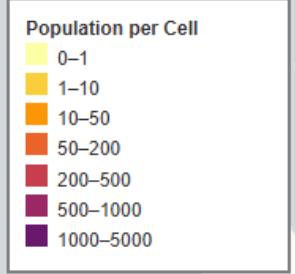
The results are mainly for illustration purposes




OSM – Public Transport Facilities



The results are mainly for illustration purposes

Access to the Strategic Road Network



 Total population in boundary: 10.7 million
 Population within 2km of roads: 4.7 million
 Coverage: 44%

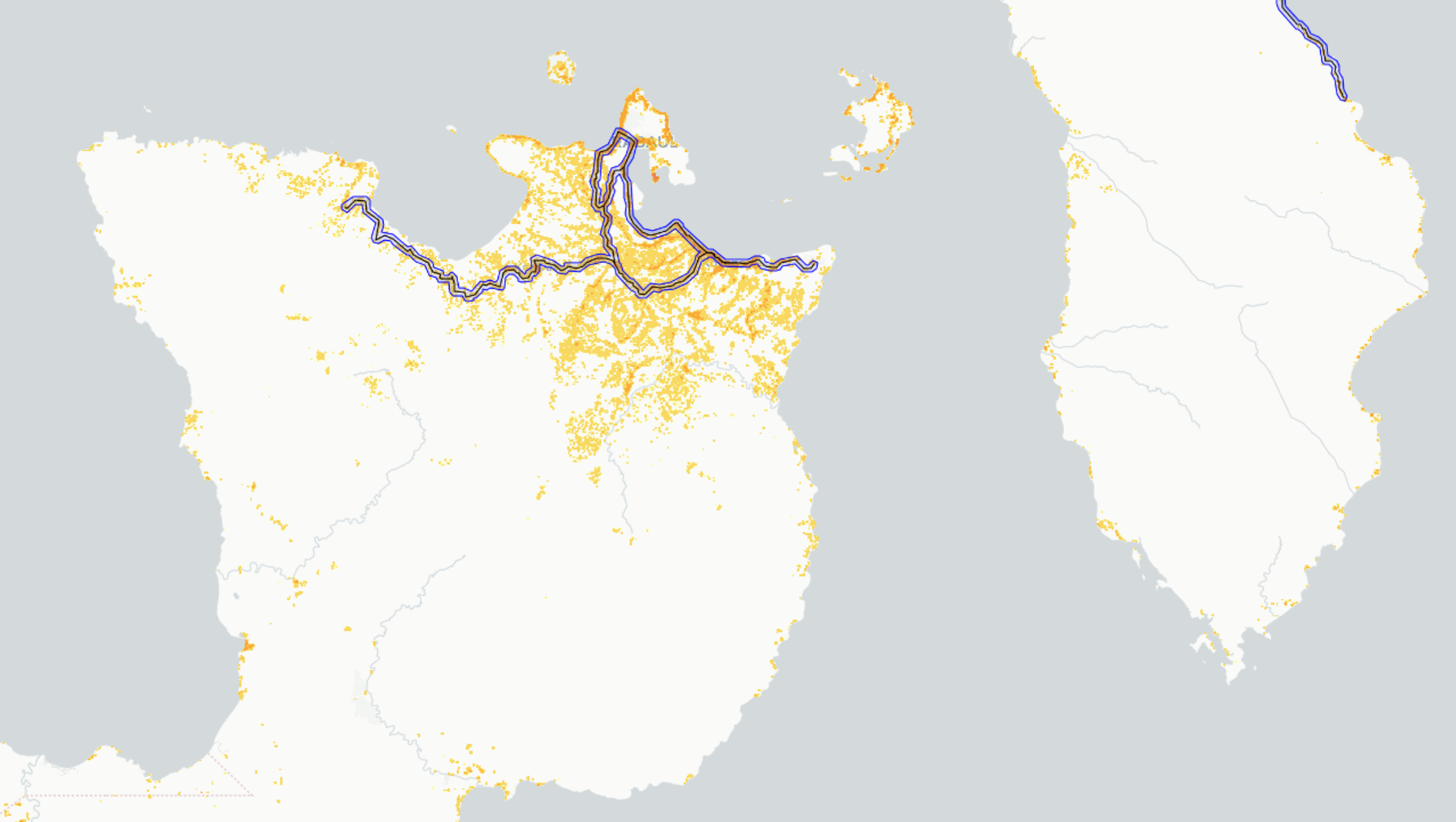
The results are mainly for illustration purposes

Access to the Strategic Road Network

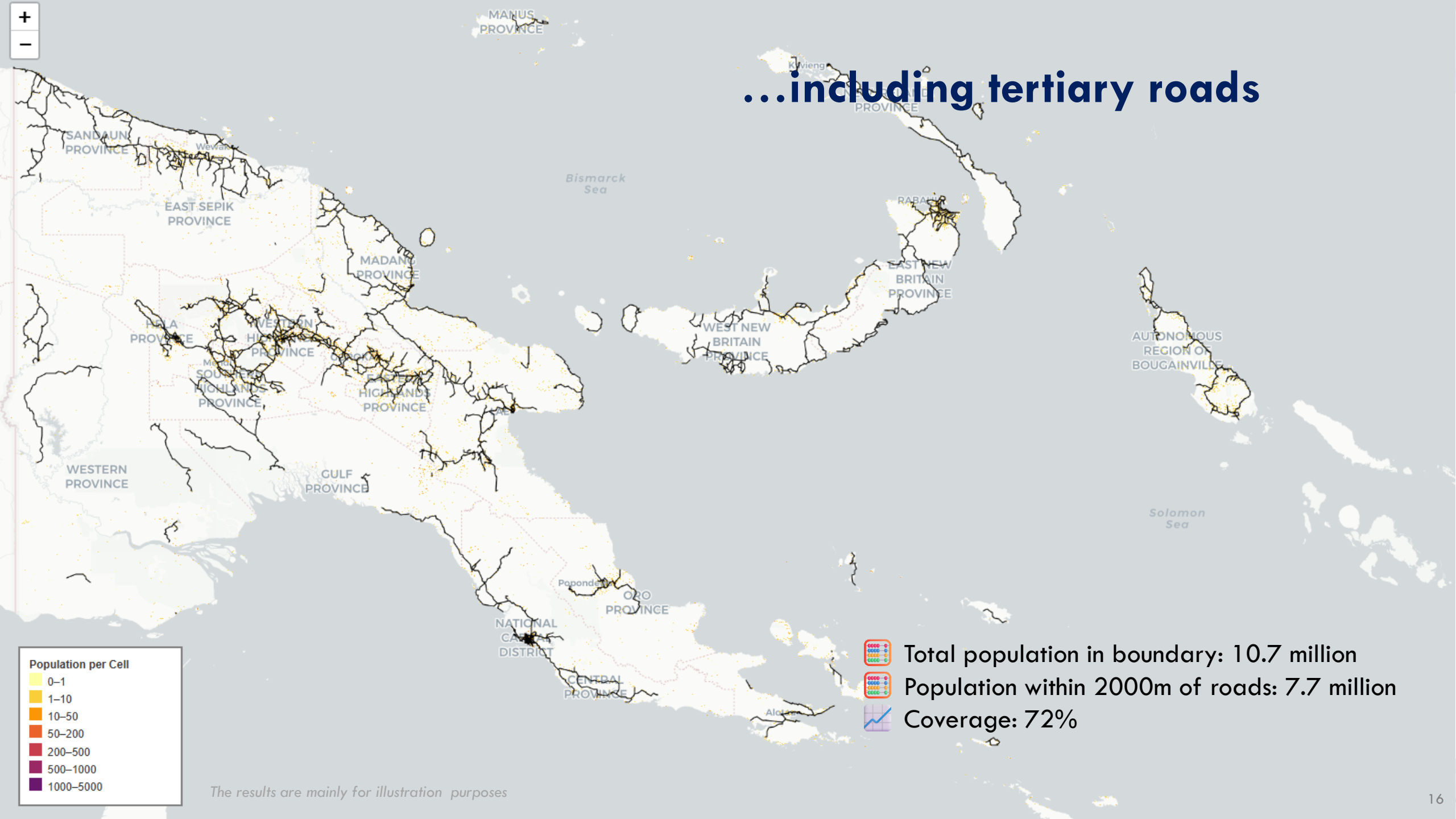


The results are mainly for illustration purposes





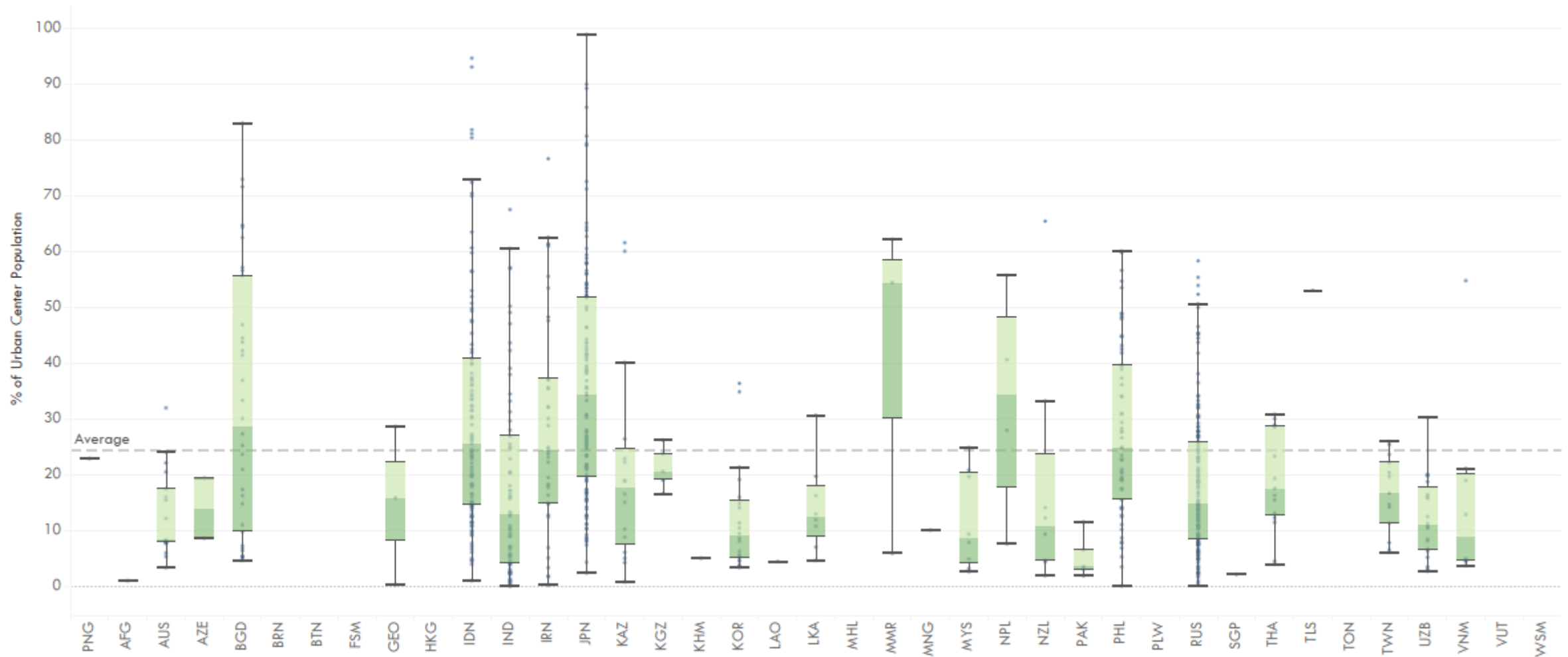
...including tertiary roads



The results are mainly for illustration purposes

Access to Medical Facilities - Pharmacy

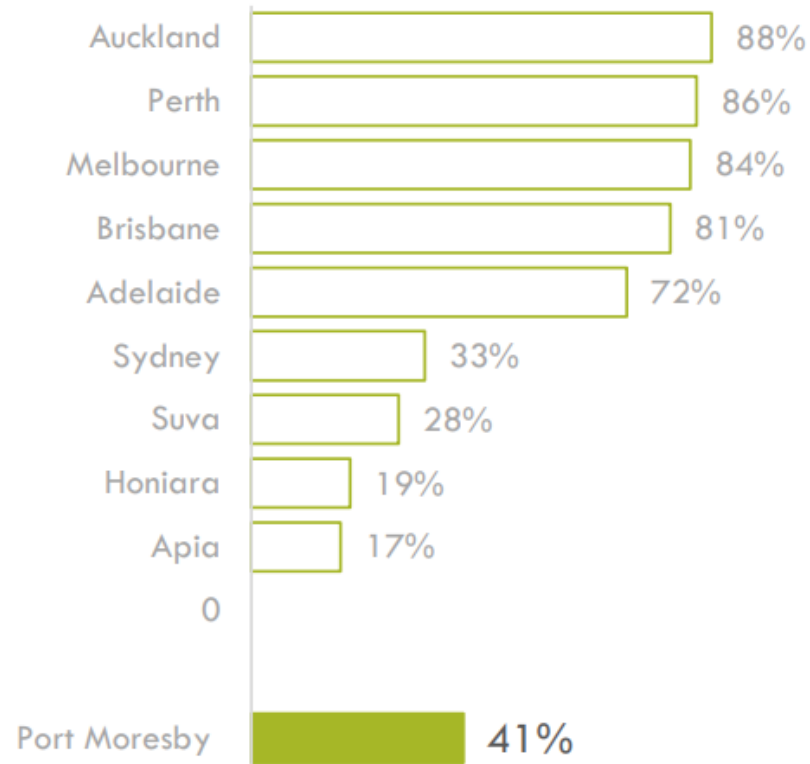
% of Urban Population Living w/in 1 km of a Pharmacy



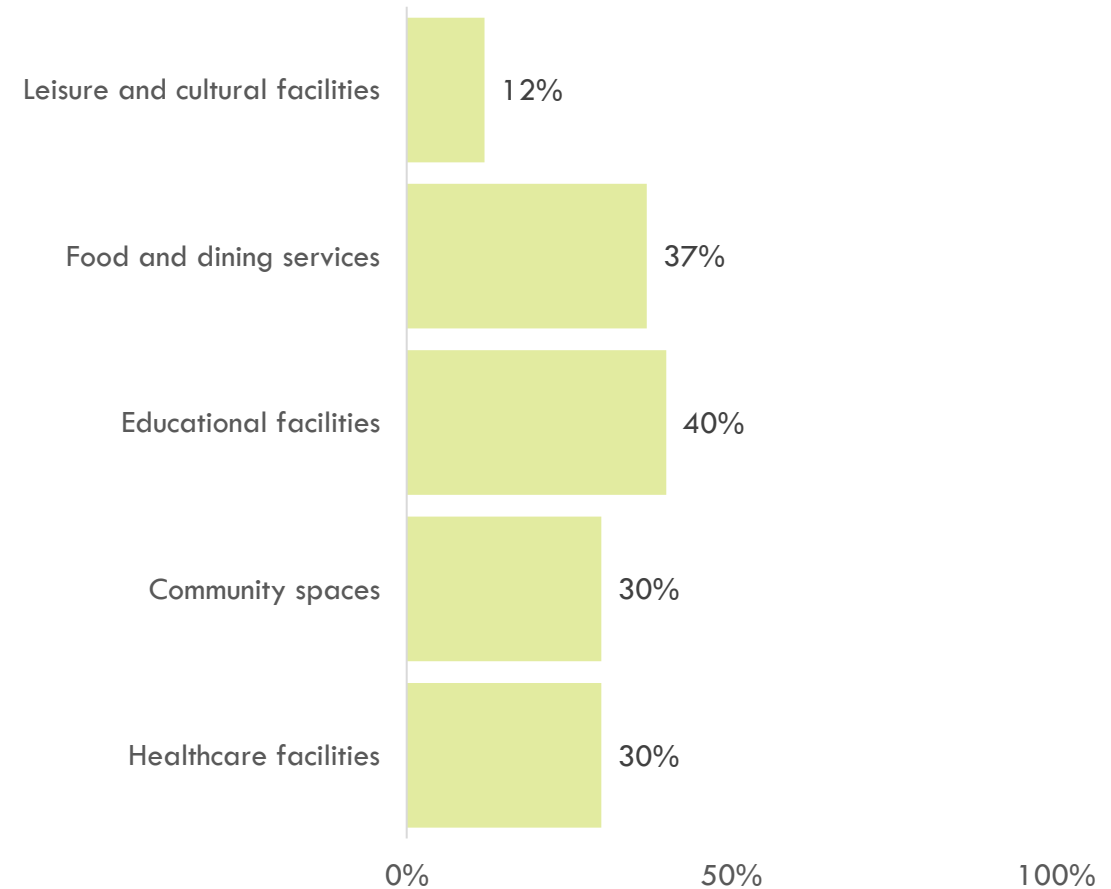
Access to Facilities

People near open public space

(Share of population) vs. highest 10 cities in Pacific (2020) (UN Habitat)



Share of population with access within a 15 min walk – Port Moresby

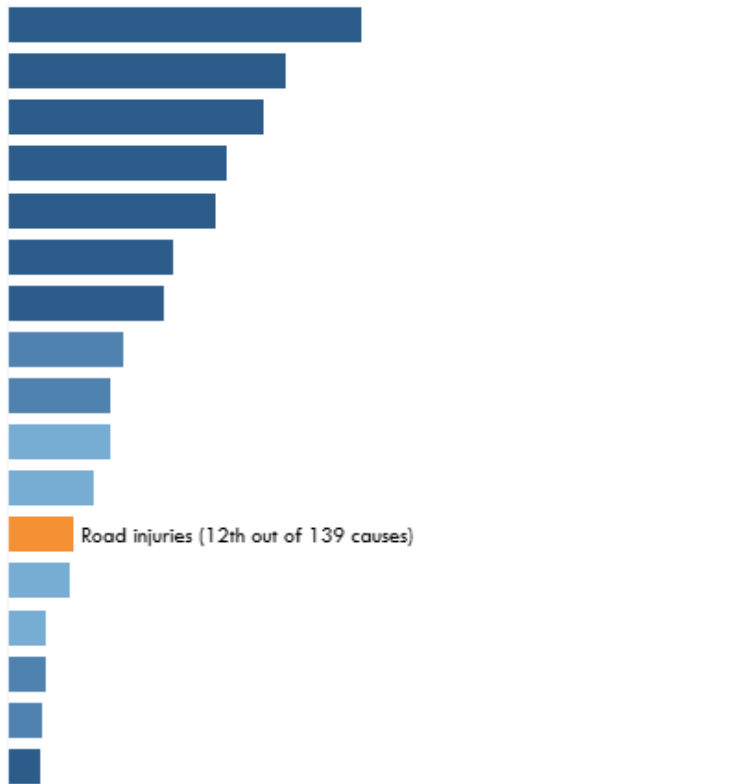


Road Safety Indicators

Road crash fatality rate for Year 2021

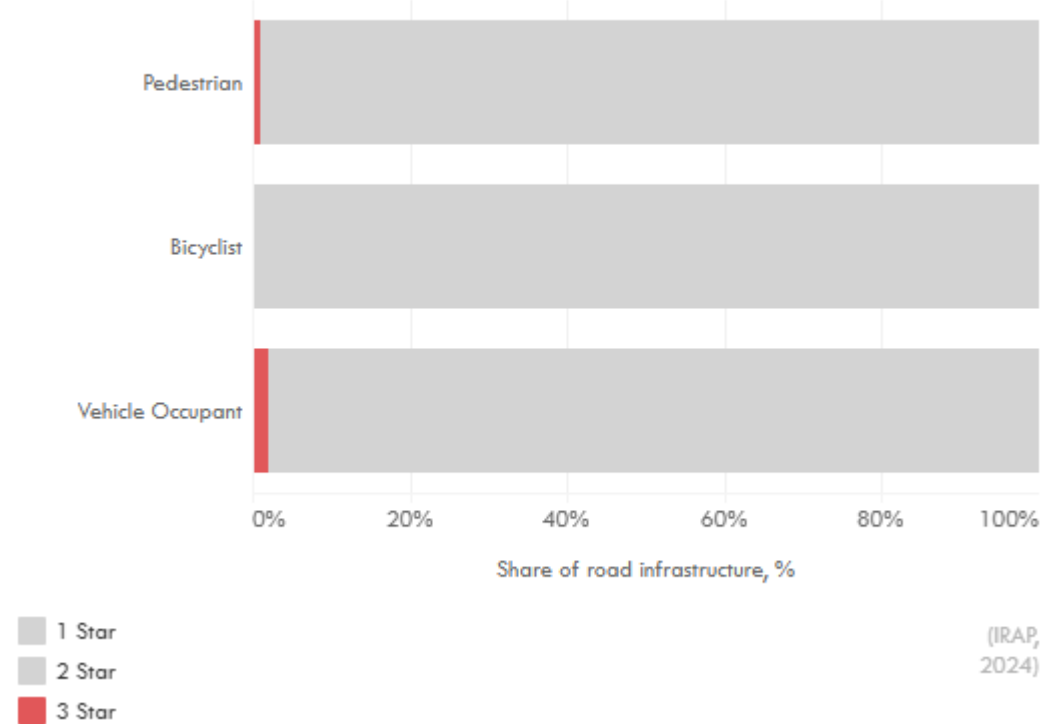
16.6 per 100,000 population

Causes of mortalities in Papua New Guinea (2021)



(IHME, 2024)

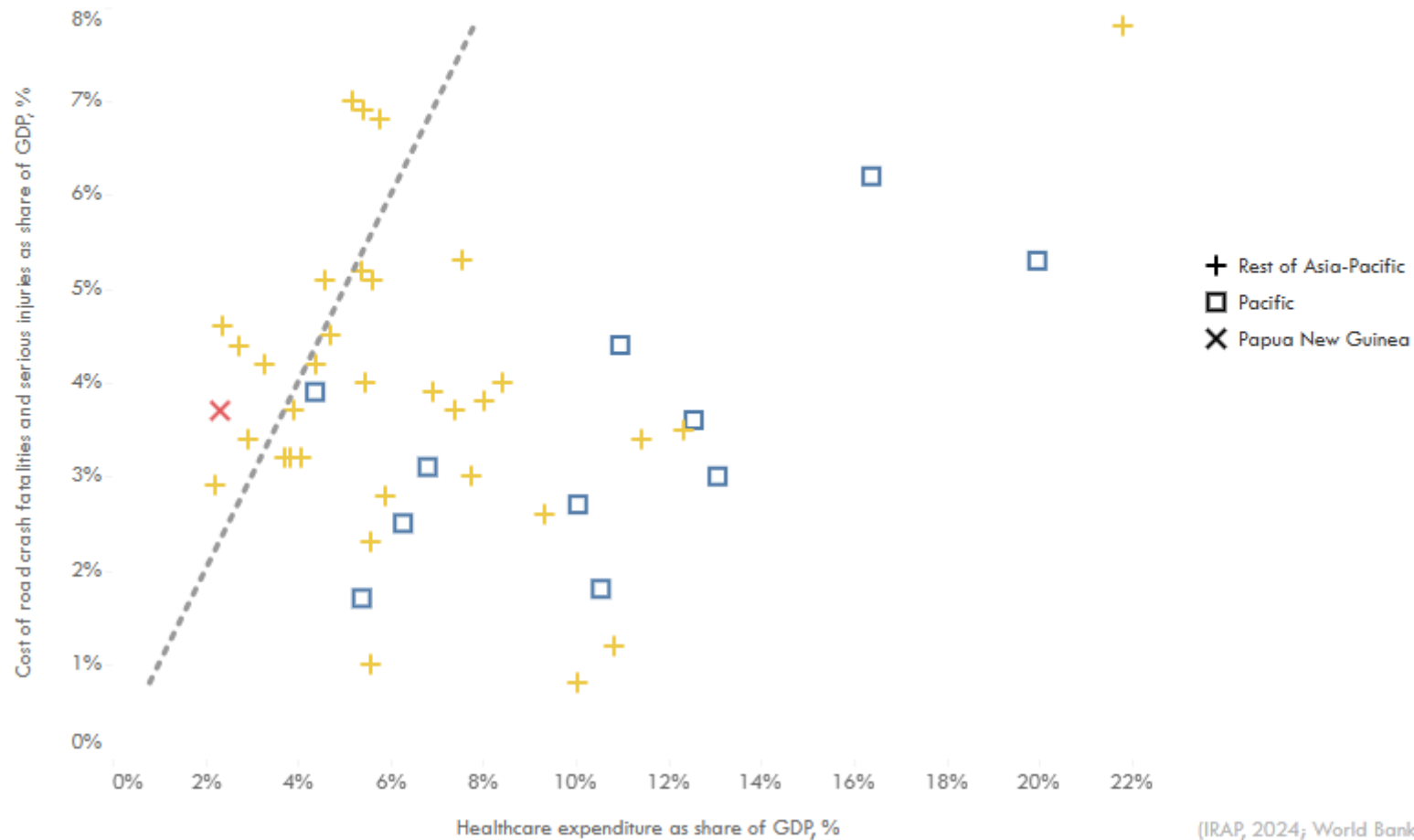
Share of road infrastructure with 3-star or better safety rating, by road user category (2024)



(IRAP, 2024)

Cost of road crash fatalities and serious injuries (2021)
969 Million USD

Cost of road crash fatalities and serious injuries vs. country healthcare expenditure as share of GDP (2021)

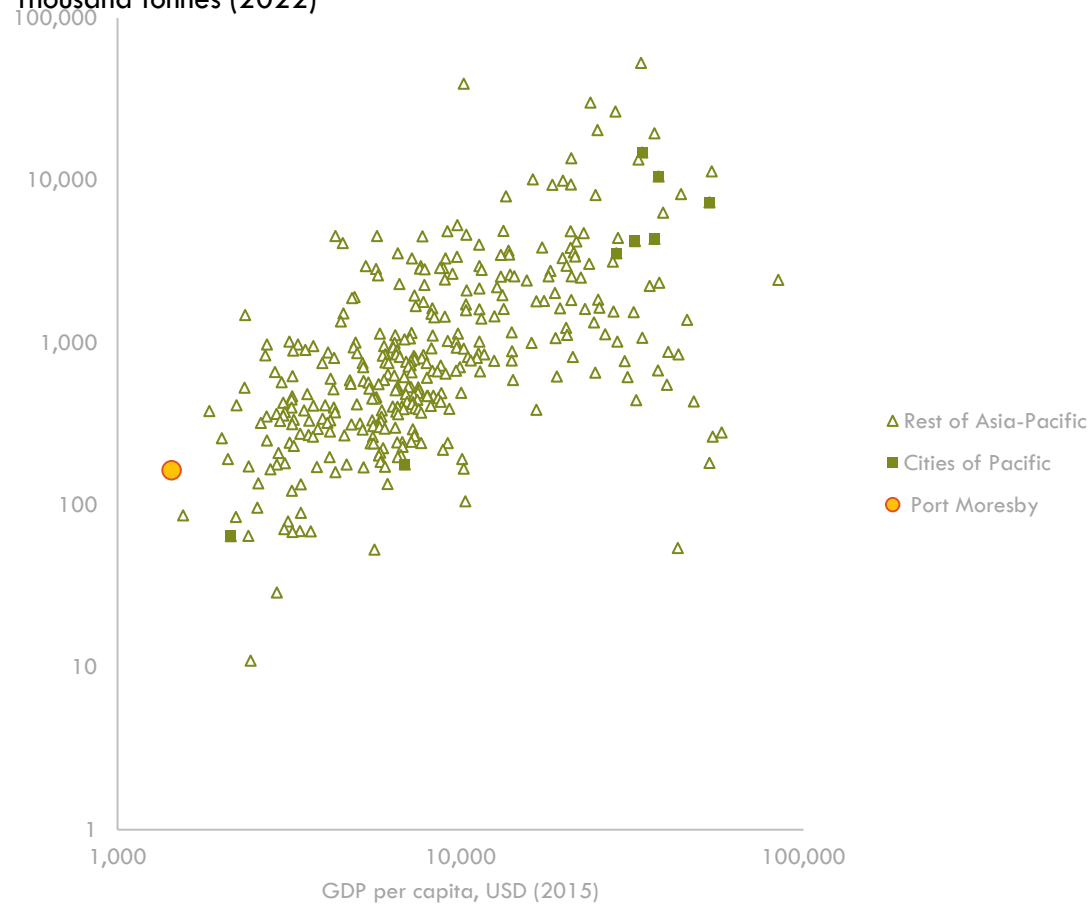


(IRAP, 2024; World Bank, 2024)

Transport GHG Emissions

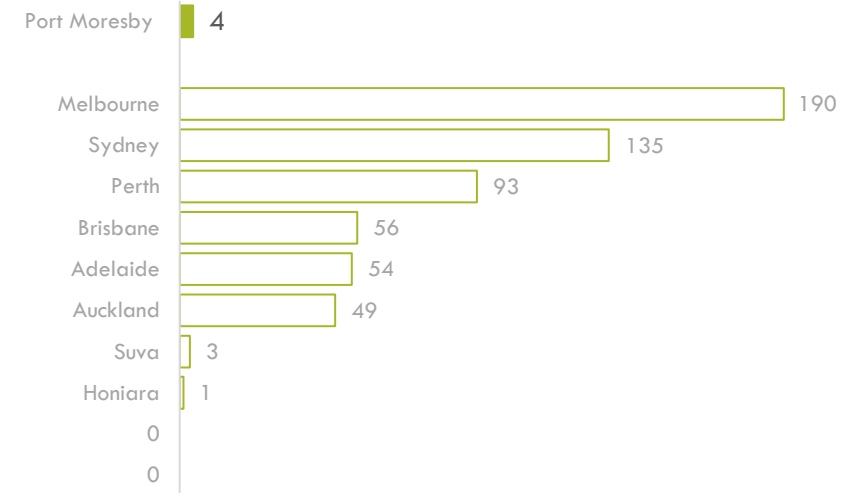
Road transport - CO2 emissions

Thousand tonnes (2022)



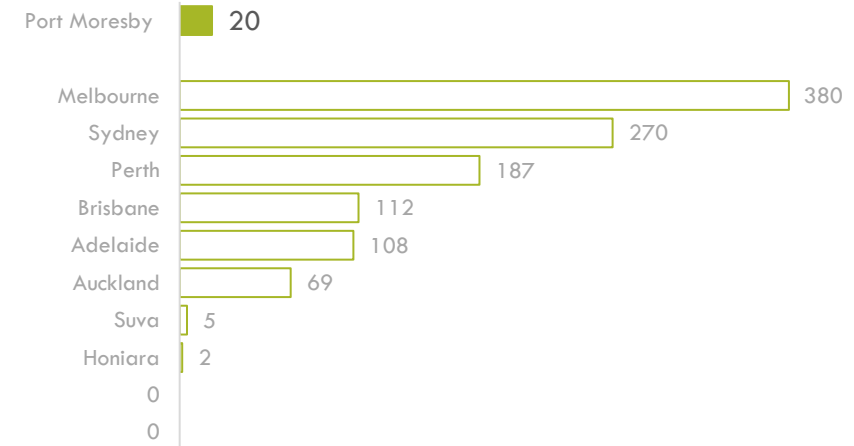
Road transport - N2O emissions

Tonnes (2022)

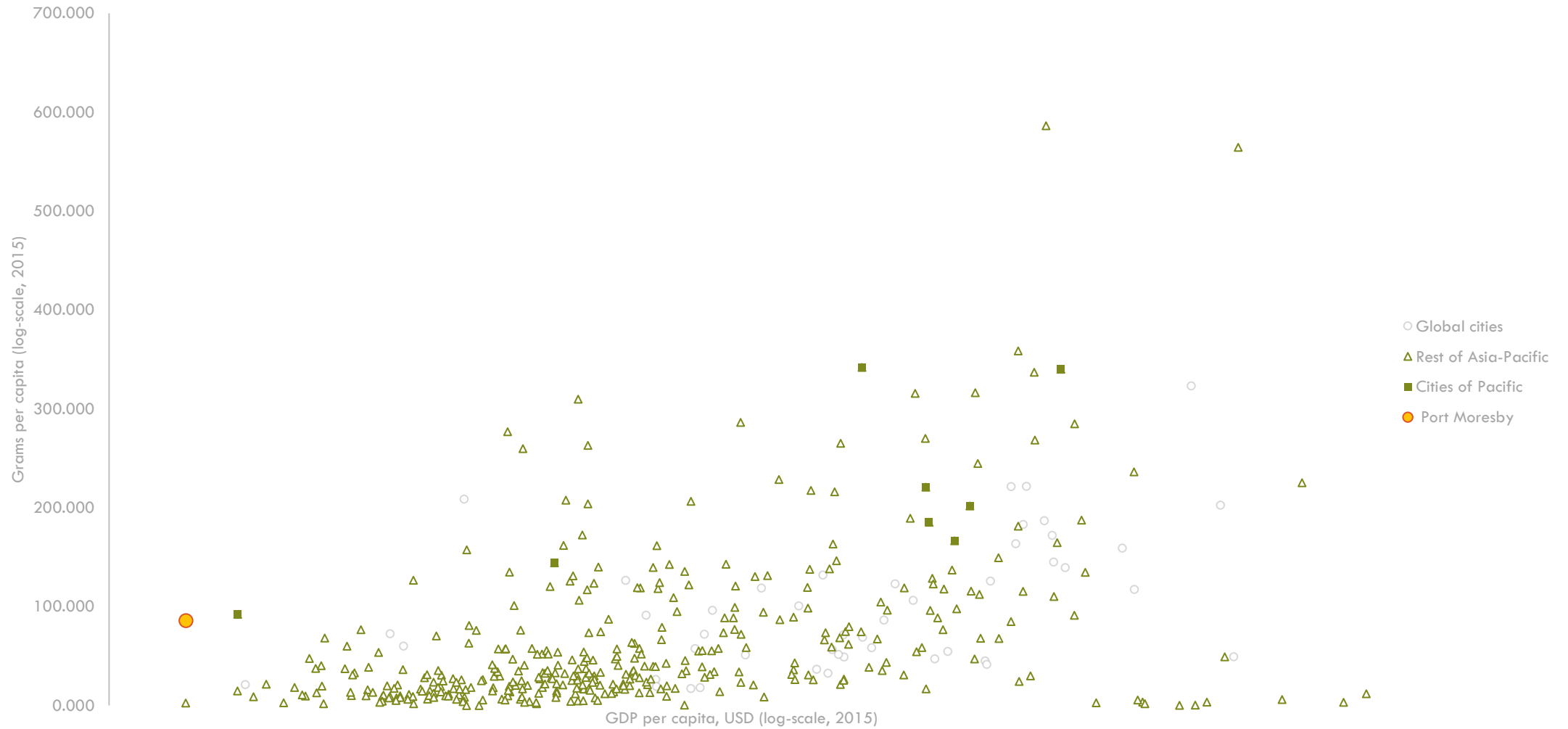


Road transport - CH4 emissions

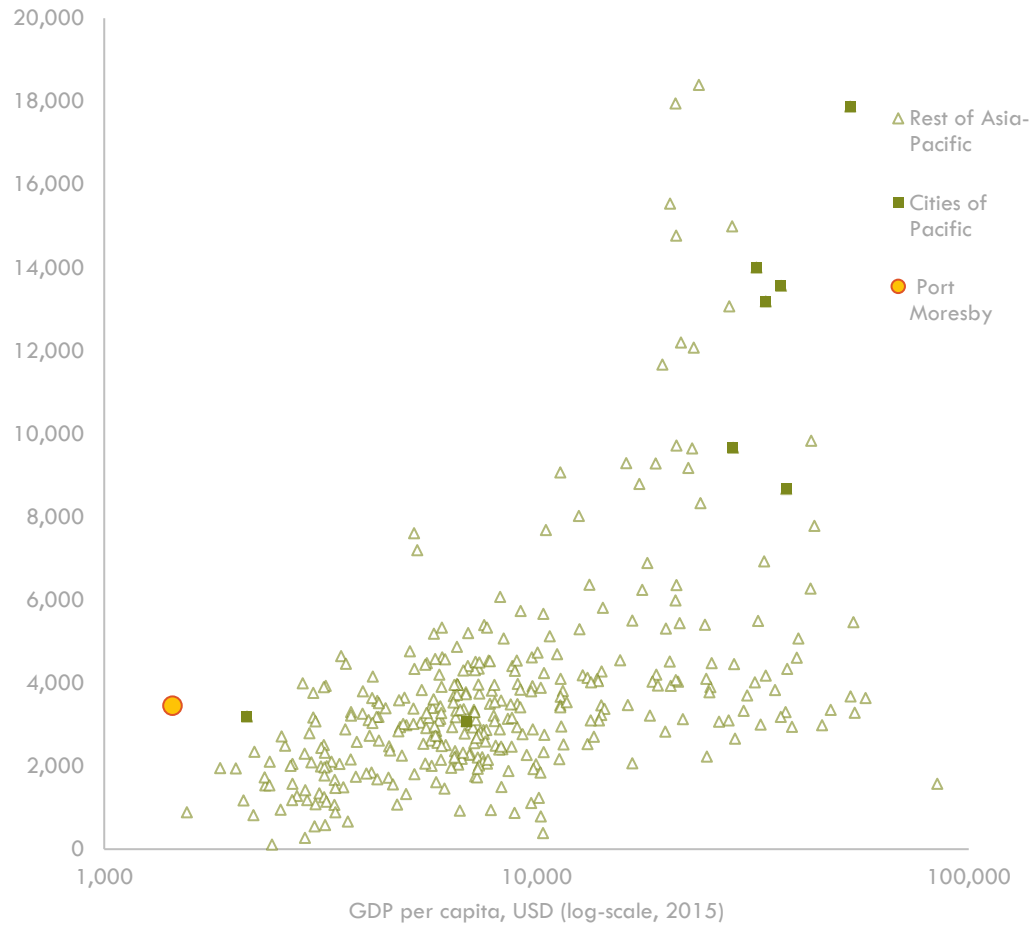
Tonnes (2022)



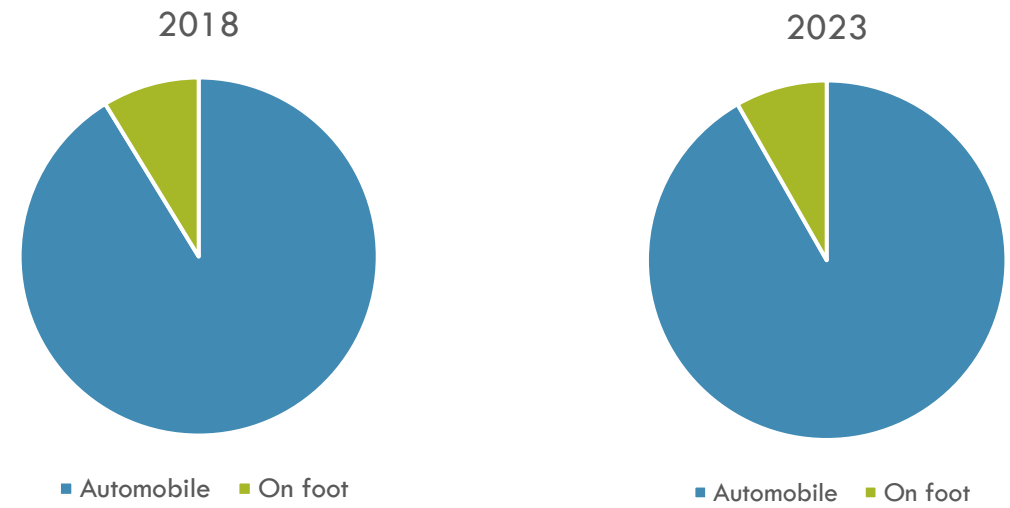
Transport PM 2.5 emissions



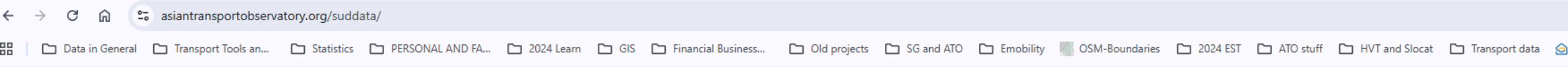
Activity and Structure



Mobile-based data (Google)



https://asiantransportobservatory.org/sud/



- Home
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- Analytical Outputs ▾
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▶ How to extract ATO Urban Data

▼ Urban centers

Count 0 / 1 ✖

 ▼

Select All 1 ✓ | Reset ✕

Papua New Guinea ▶ ?

▶ Indicators ?

Count 0 / 233 ✖

▶ Time

Count 0 / 36 ✖

ATO Urban Database

Download formatted data

Indicator view

Each page is a table for **one indicator across multiple urban centers**. This is best for side-by-side data comparison between urban centers.

Urban center view

Each page is a table for **one urban center with multiple indicators**. This is best for an overview of various indicators of one urban center.

[XLSX](#)

Download raw data

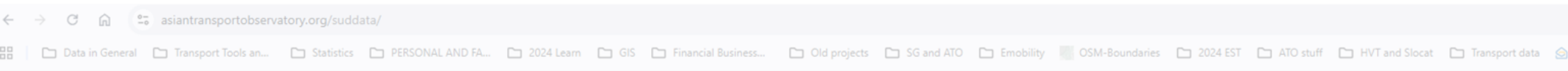
This is best for further analysis using third-party software like Excel.

[XLSX](#)

[CSV](#)

[JSON](#)

https://asiantransportobservatory.org/sud/



Row Labels	PNG	FJI	VUT	FSM	SLB	KIR	WSM	TON	MHL	NRU	PLW	TUV
ACCESS & CONNECTIVITY (ACC)	18	18	1		3		3					1
AIR POLLUTION & HEALTH (APH)	4	5			4							
CLIMATE CHANGE (CLC)	11	11			11							
INFRASTRUCTURE (INF)	2	6			1							
MISCELLANEOUS (MIS)	4	3	1		2		1		1			
ROAD SAFETY (RSA)												
SOCIO-ECONOMIC (SEC)	9	7	2	2	7	2	2	2	2	1	2	2
TRANSPORT ACTIVITY & SERVICES (TAS)	10	2			2							
URBAN FORM & STRUCTURE + LANDUSE (UFS)	9	10	1		7		2	1				

Download raw data

This is best for further analysis using third-party software like Excel.

https://asiantransportobservatory.org/pacific/

Pacific Sub-Observatory

Coming Soon

ATO is embarking on the development of sub-observatory for the Pacific.
This work is also being supported by the World Bank.

Developed with the support of



ATO Knowledge Products



SDG Profiles
(39 countries)

Transport Climate Profiles
(24 countries)

Road Safety Profiles
(24 countries)

E-mobility Profiles
(10 countries)

Green Roads Profiles
(23 countries)

Gender Profiles
Rail Profiles
(20 countries)
(4 countries)



PORT MORESBY, PAPUA NEW GUINEA

URBAN TRANSPORT PROFILE

December 2024



Home / Analytical Outputs / ATO Country Profiles / Papua New Guinea

Information

Name: Papua New Guinea
Income Group: Lower middle income

Green Roads Profile



version May 2024

Road Safety Profile



version December 2023



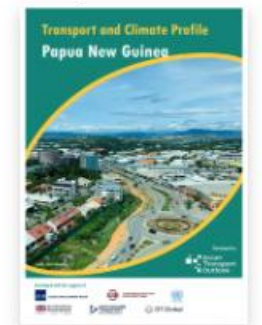
version September 2025

Transport Sector Profile



version September 2023

Transport and Climate Profile



version October 2024

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 to 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 measure 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



Renewable Energy Share in Electricity Generation - Visualization

2024-10-30

The renewable energy (RE) share in electricity generation (%) refers to the proportion of 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 inclusive cities. Access to Public Transport—focuses on how well urban residents have access to public transport, social equity, environmental sustainability, and economic opportunities.

Interactive Visualization

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



Transport CO2 Intensity of the Economy

2024-10-15

Interactive Visualization

Tags:

Summary

- Urban densities still relatively lower vs average of counterparts
- Ongoing urban transition in secondary and tertiary cities
- Evidence of stagnated disconnectedness for street networks (Port Moresby)
- Access to public transport remains a key challenge based on several institutions' estimates ; similar to other access metrics (e.g. to key destinations)
- Open data can provide strategic insights (e.g. in assessing access metrics) at low cost, though there can be notable limitations
- Tracking in a comprehensive manner can highlight synergies, and provide evidence for capturing co-benefits

asiantransportobservatory.org

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

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Check out the ATO Profiles!



Transport Sector Profiles



Transport and Climate Profiles



E-mobility Profiles



Urban transport Profiles



Green Roads Profiles



Rail sector Profiles



Road Safety Profiles



Gender in mobility Profiles