

Transport-relevant Data and Tools

Supporting Decarbonization, Resilience and Sustainability Goals in Pakistan

Alvin Mejia

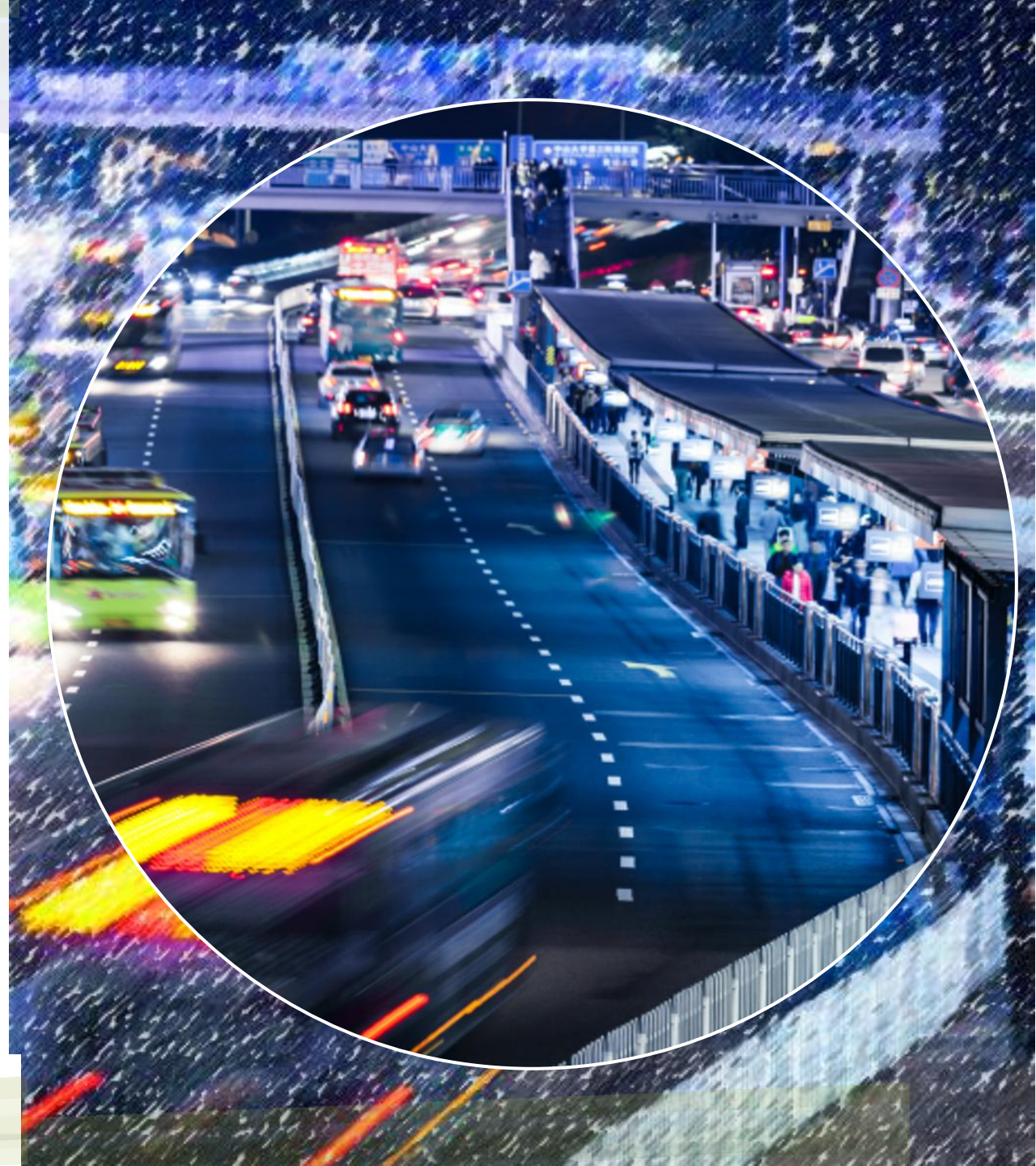
Co-Team Lead

Asian Transport Observatory

Strengthening the Capacity of Pakistan to Implement Low Carbon and Resilient Transport Action Plans

September 29-30, 2026

Islamabad



asiantransportobservatory.org



52 Economies (ADB Members + Iran and Russia)

460 Urban Centers (412 Asia-Pacific, 48 Others)

50 Urban Centers with a detailed review



Asiantransportobservatory.org

- **Collect** — bring together data from different sources ; covering 52 economies + 460 urban center in Asia and the Pacific
- **Curate** — check, clean, organize, and structure data
- **Connect** — link data to policy, planning, and investment questions
- **Communicate** — turn data into insights in ways decision-makers can us
- **Capacitate** — for using data and insights in planning and investment decisions
- **Collaborate** — to strengthen collection, validation, utilization of the data



[Data](#)
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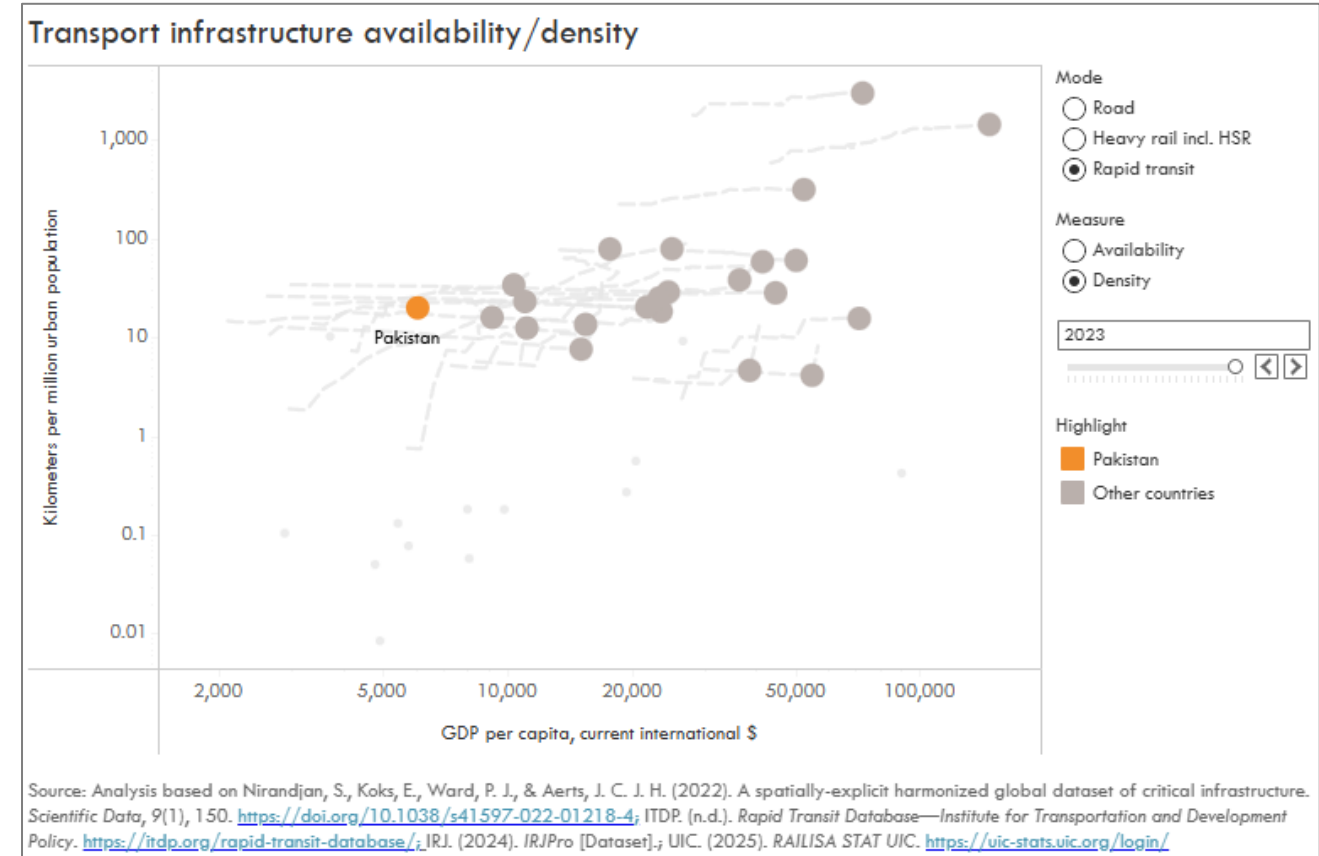
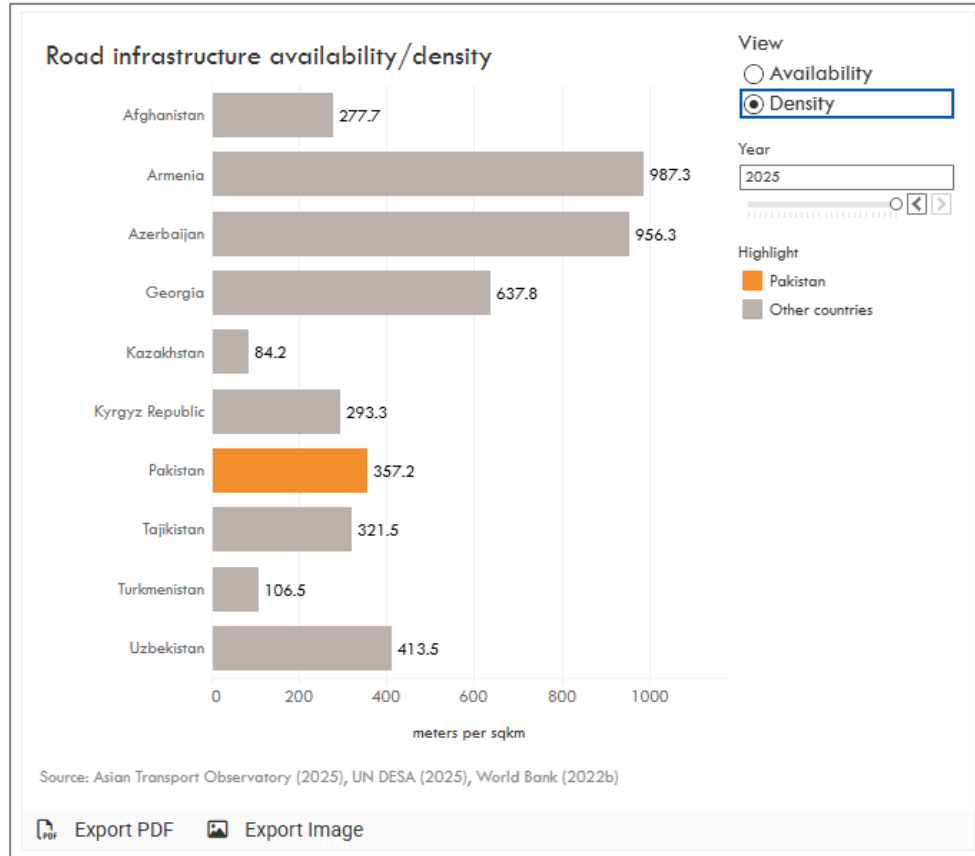
Knowledge base on transport in Asia-Pacific

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

[sustainable transport](#)



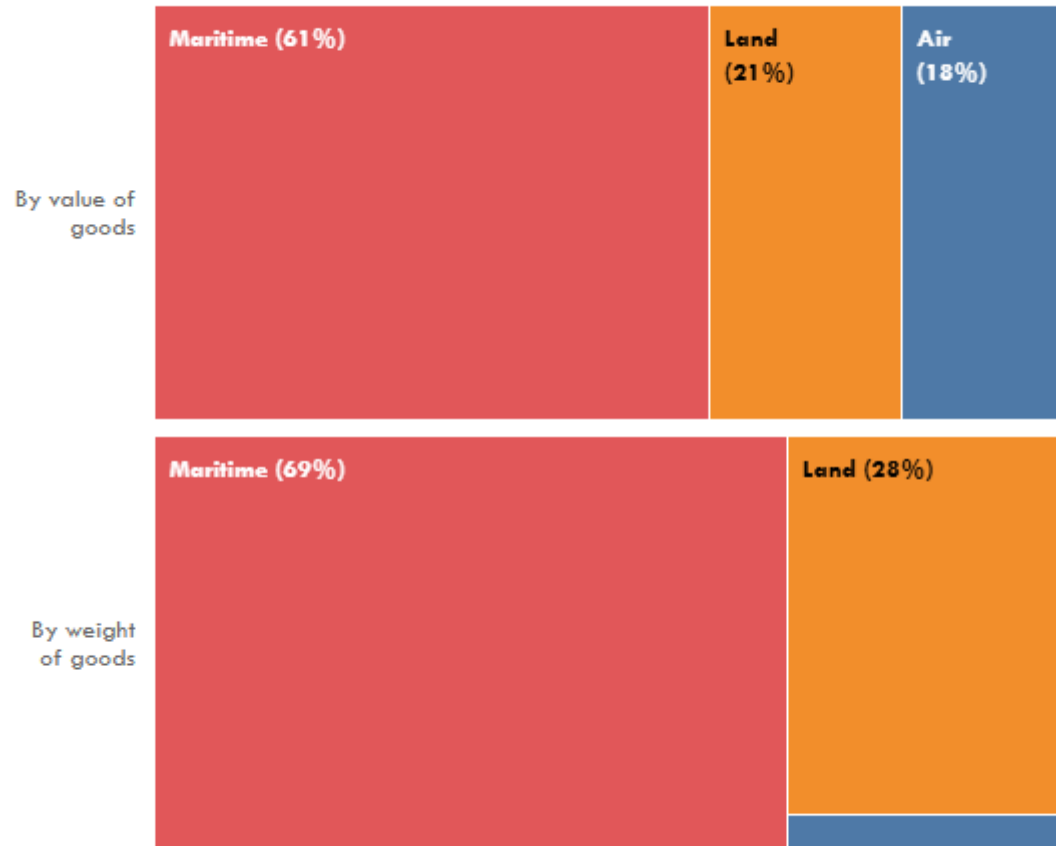
Infrastructure Provision



Source: OECD, WB, official statistics and other sources

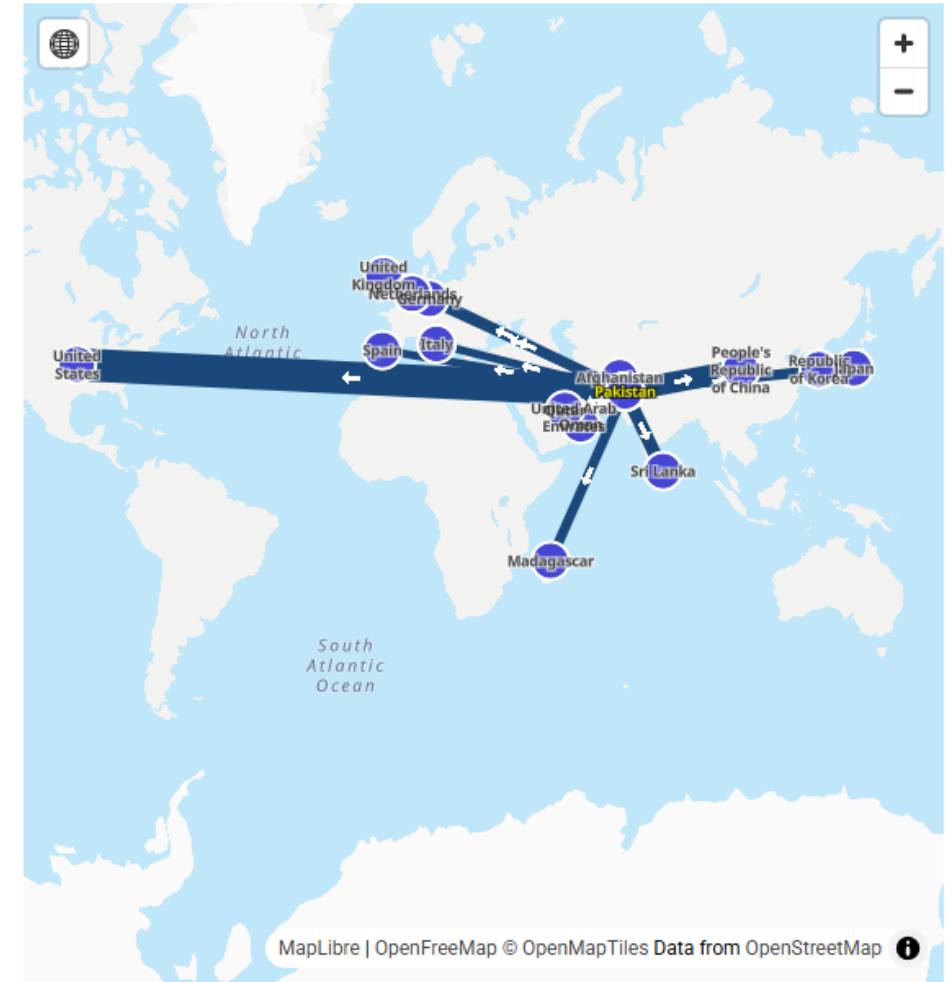
Activity

Trade supply chain mode share



Source: Verschuur, J. (2022). Global port supply-chains. 1. <https://doi.org/10.17632/vzzy3b9gg4.1>

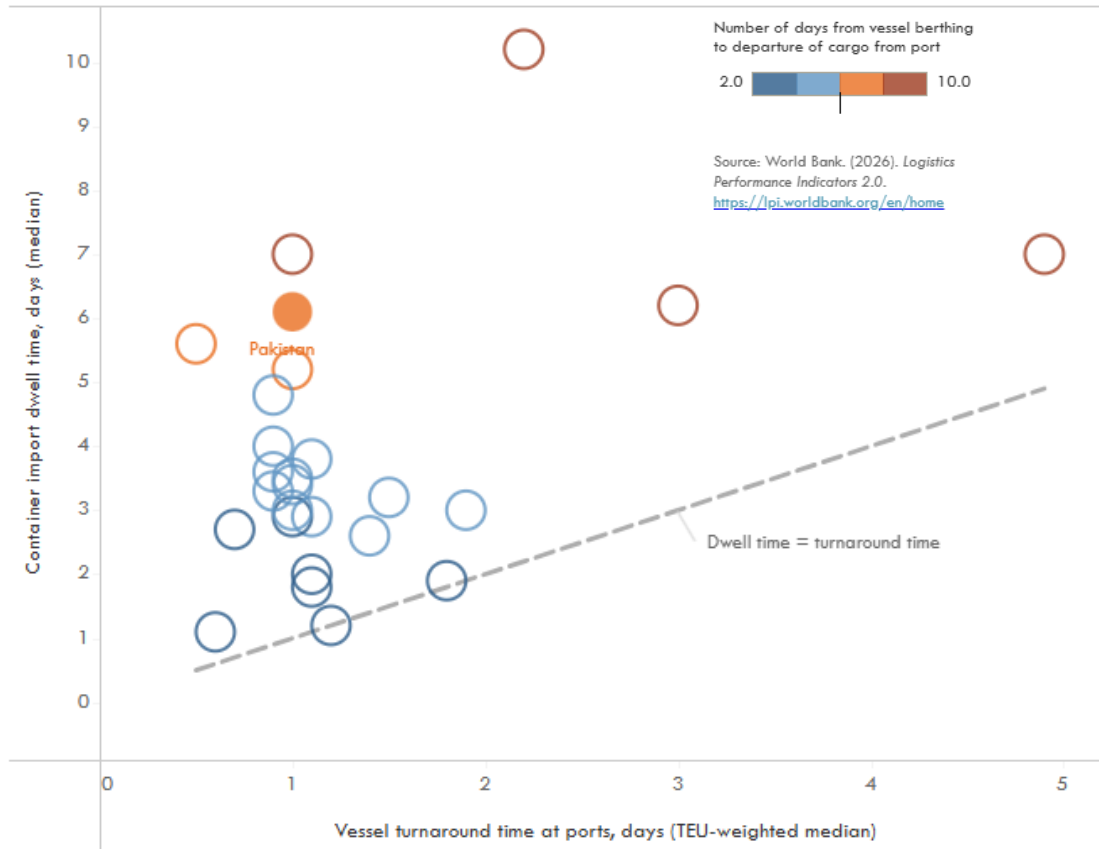
Top 10 Freight transport work in thousand ton-km (Export)



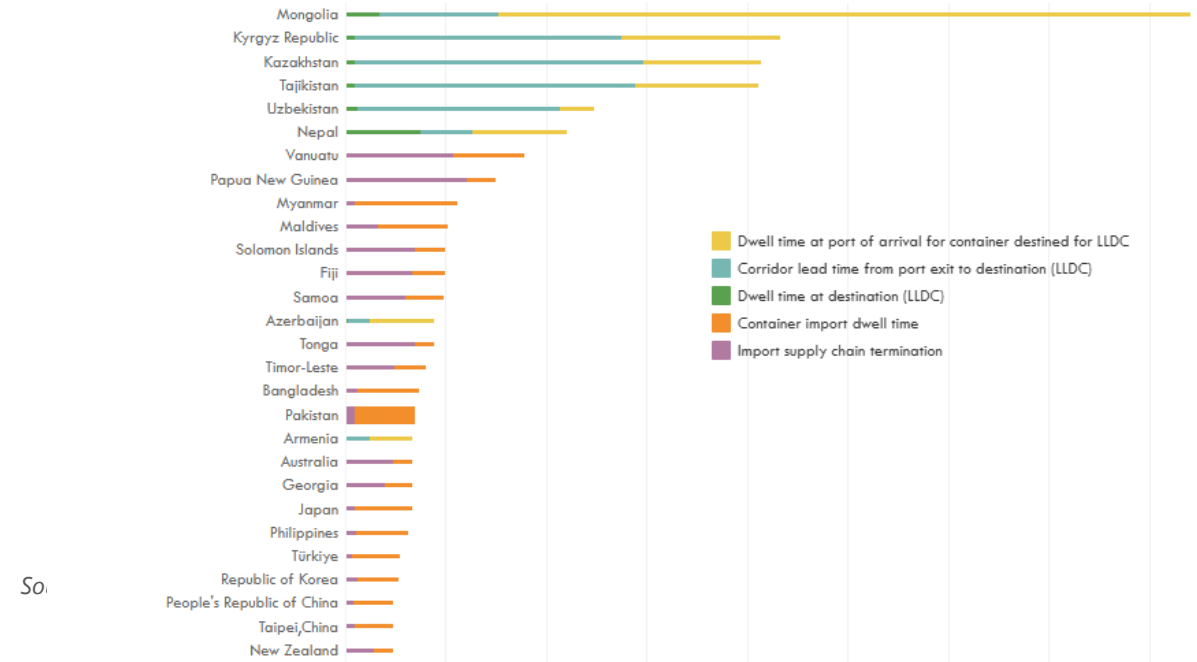
Source: UNCTAD & World Bank. (n.d.). TransportCosts. UN Trade & Development Data Hub - Trade and Transport Dataset, Annual, 2016 Onward. Retrieved May 1, 2025, from <https://unctadstat.unctad.org/datacentre/dataviewer/US.TransportCosts>

Costs and Performance

Import dwell time vs. turnaround time

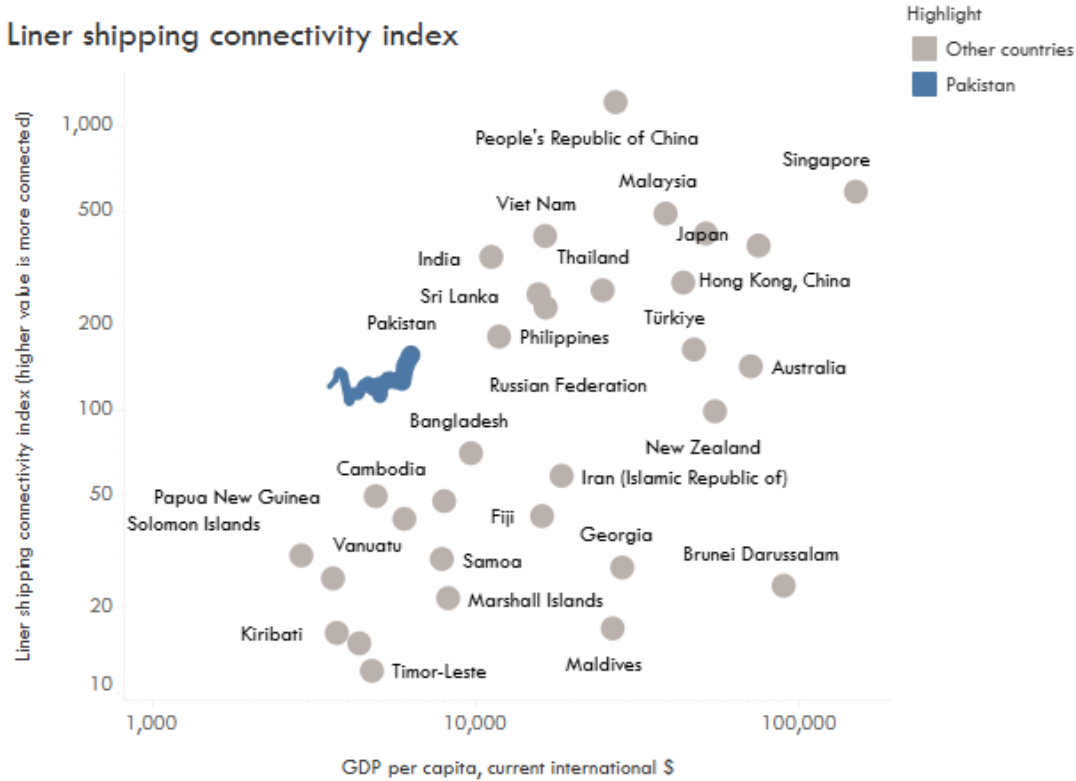


Import supply chain length

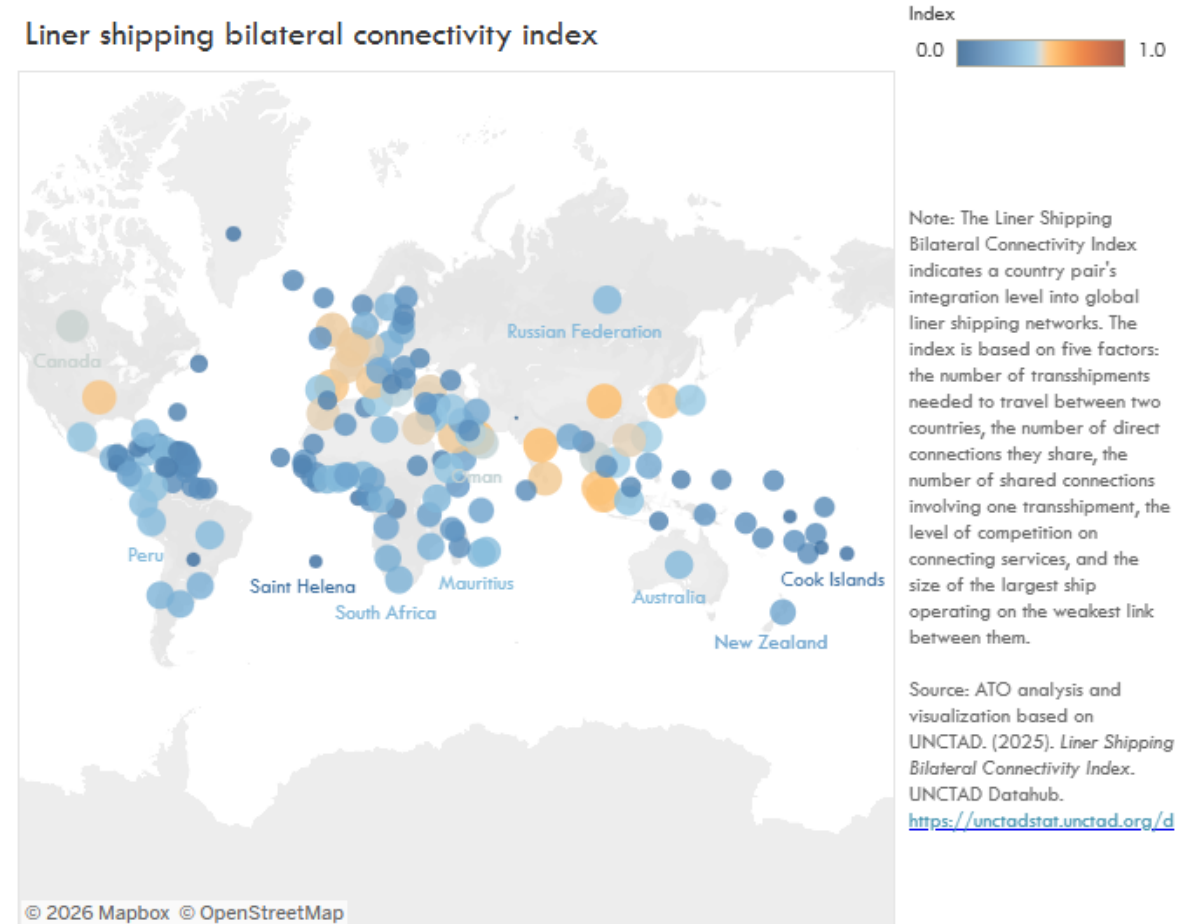


Connectivity

Liner shipping connectivity index

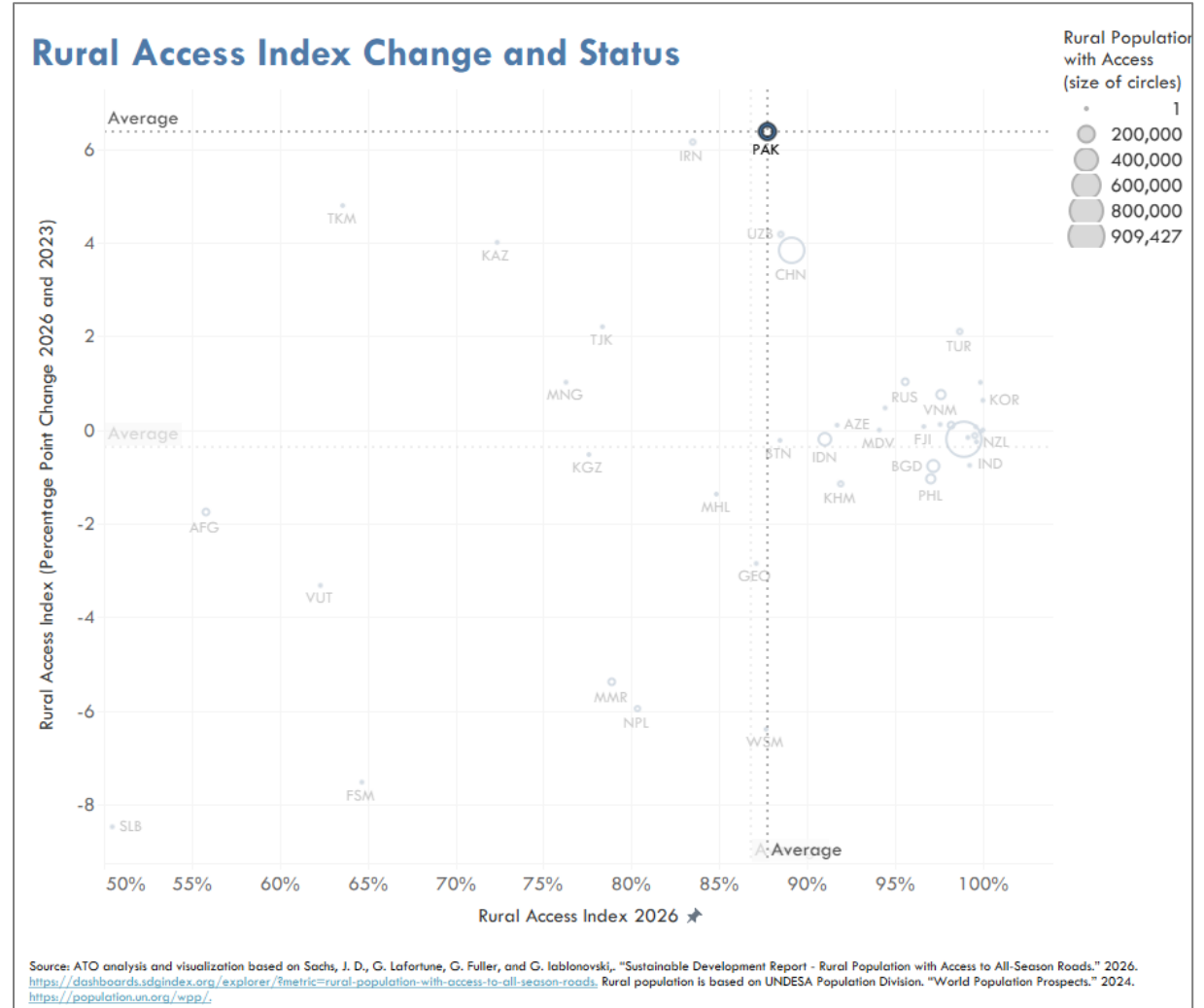
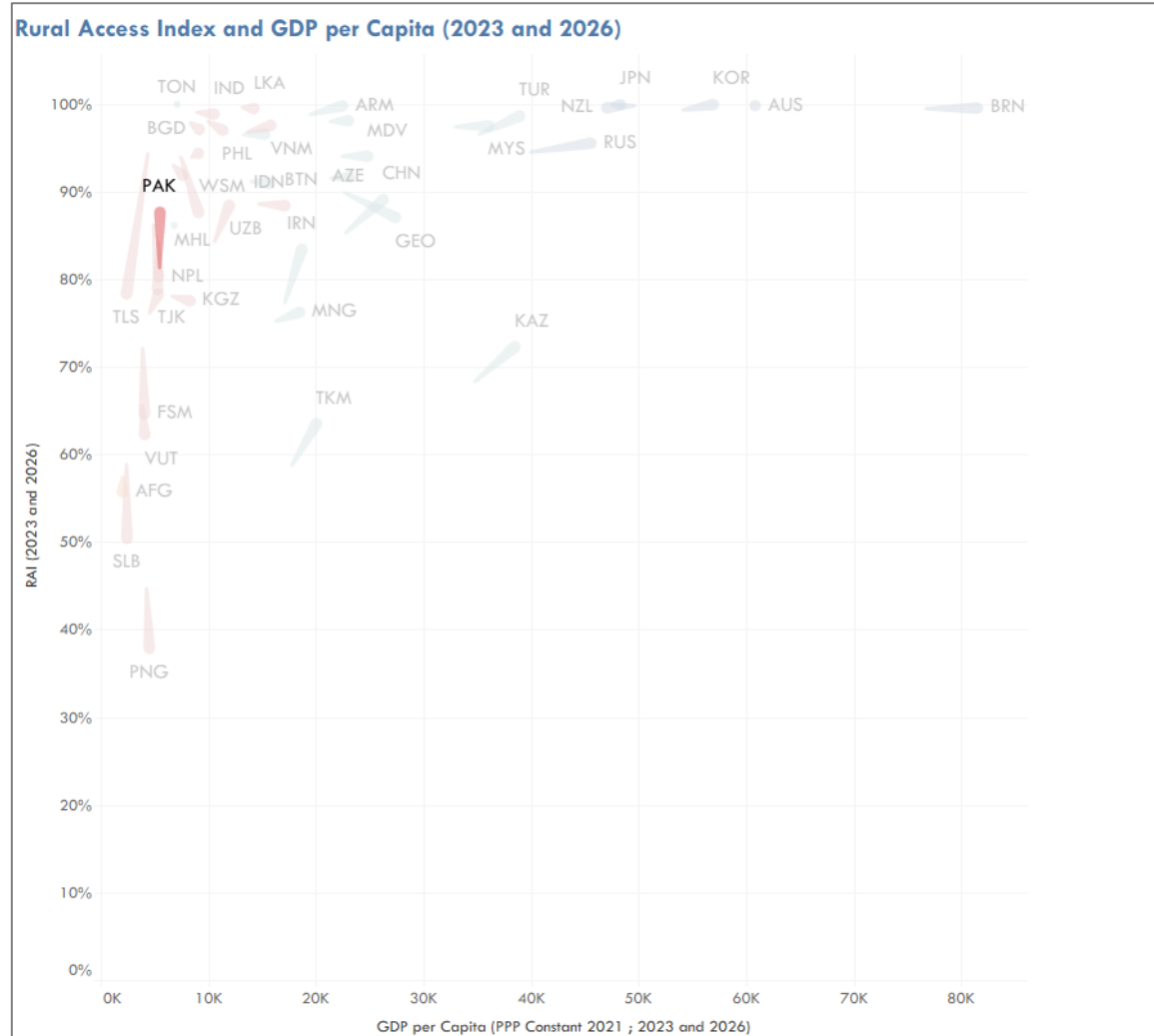


Liner shipping bilateral connectivity index



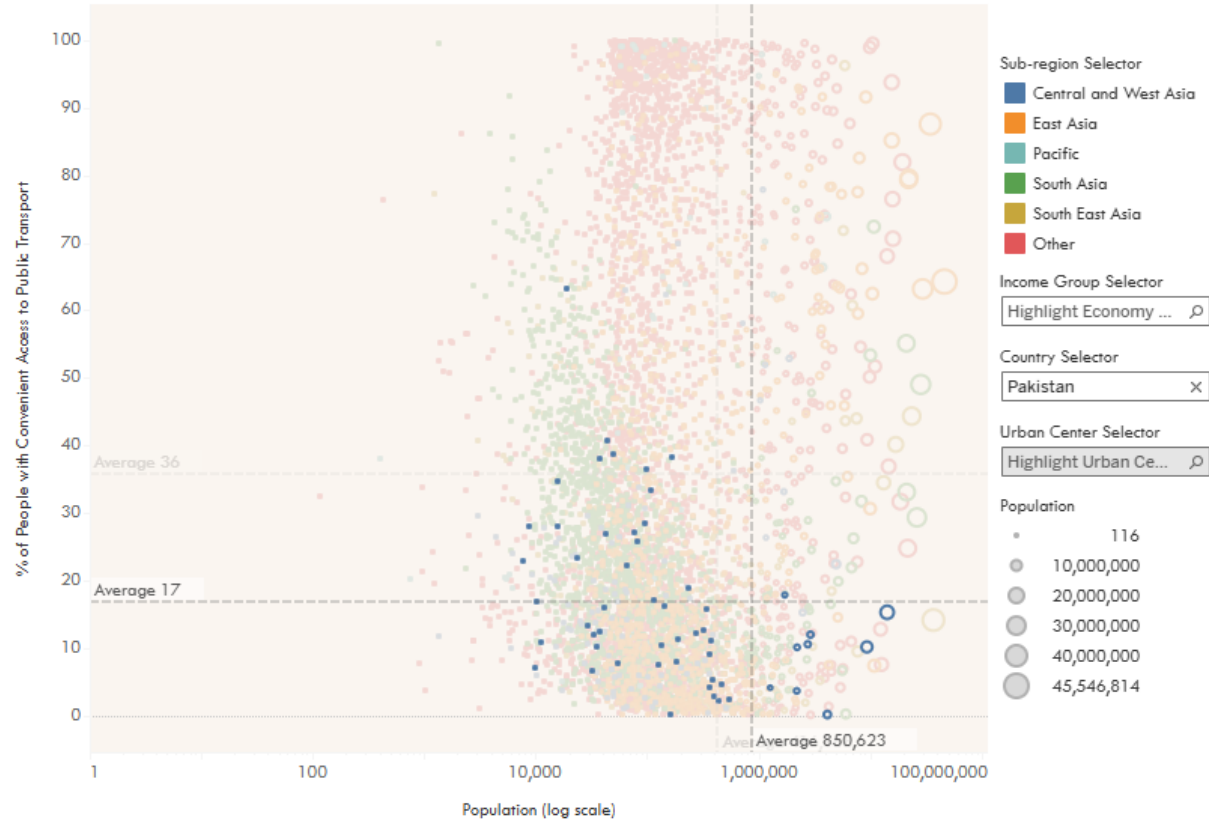
Source: UNCTAD. (2024). *Liner Shipping Connectivity Index*. UNCTADStat. <https://unctadstat.unctad.org/datacentre/dataviewer/US.LSCI>

Rural Access

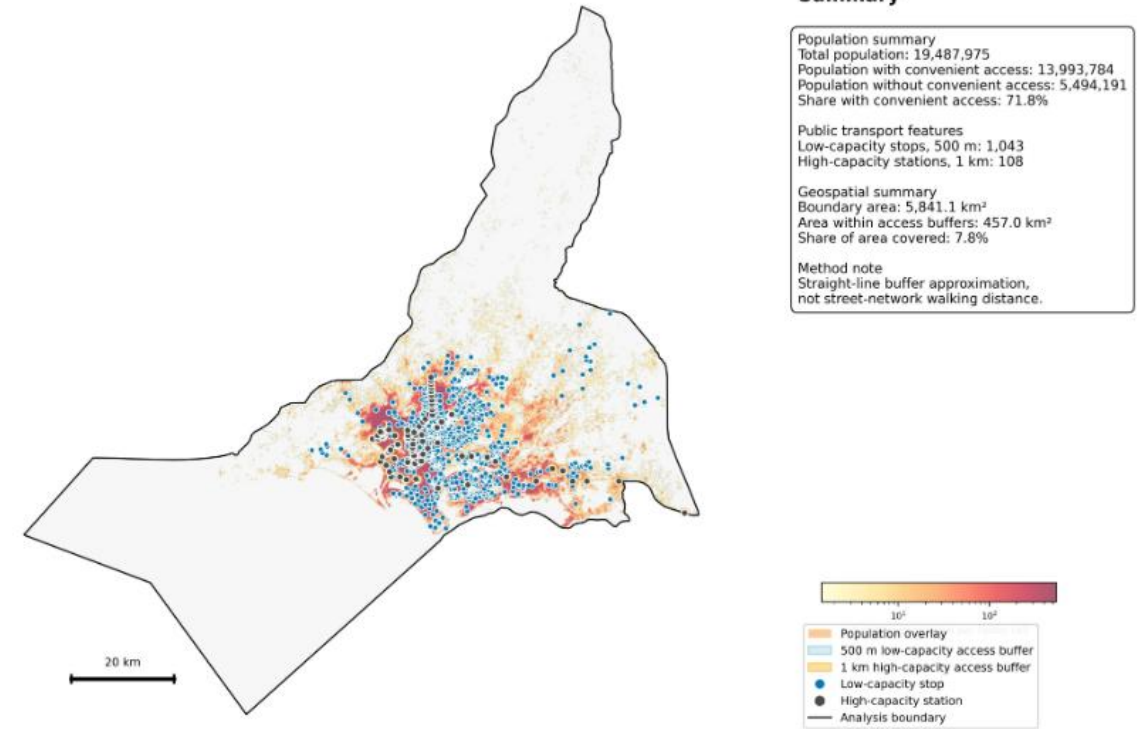


Urban Access

Urban Access to Public Transport Visualization



Karachi Public Transport Access, SDG 11.2.1 Approximation

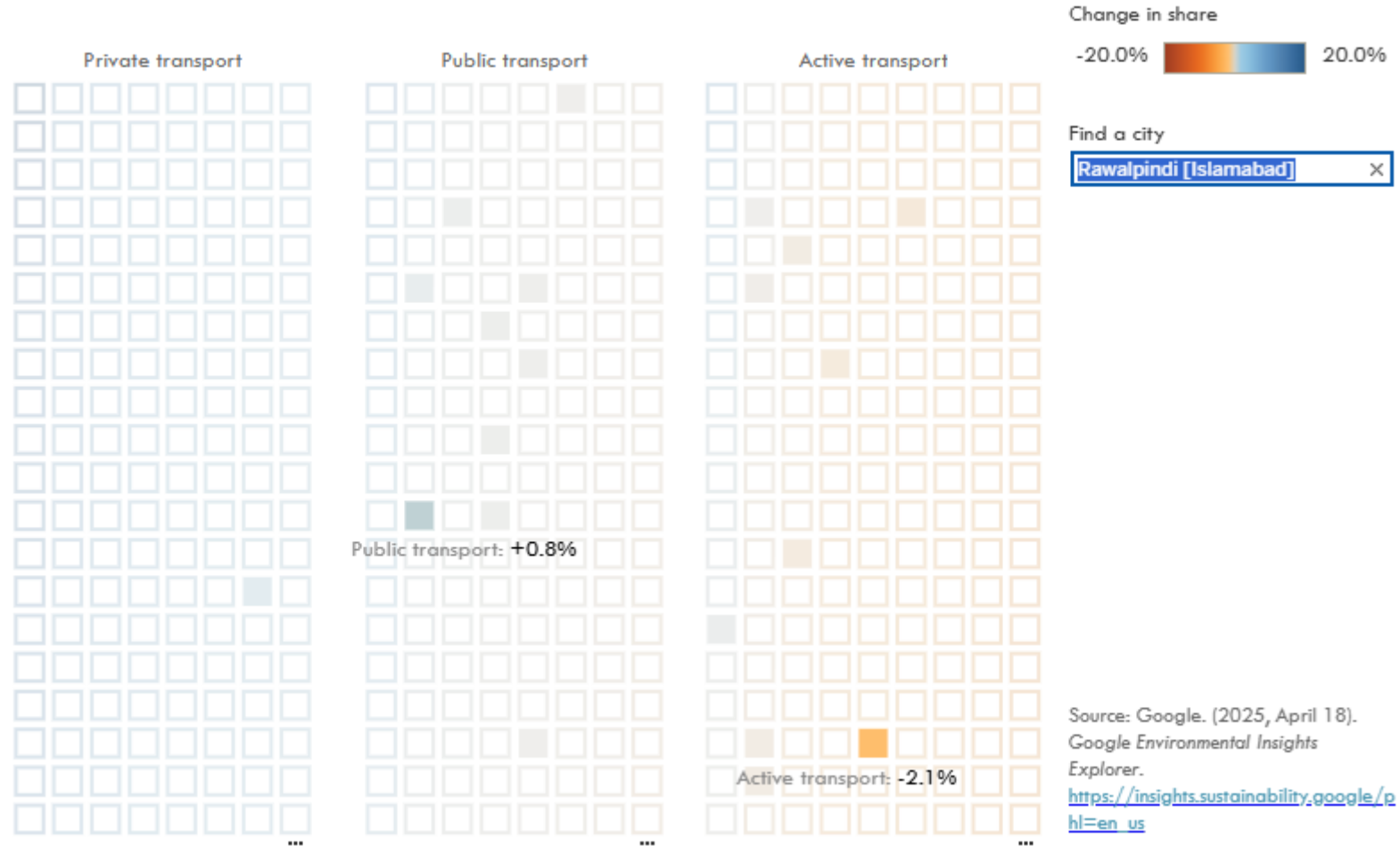


ATO visualisation based on Center for International Earth Science Information Network - CIESIN - Columbia University. 2023. SDG Indicator 11.2.1: Urban Access to Public Transport, 2023 Release. Palisades, New York: NASA Socioeconomic Data and Applications Center (SEDAC). <https://doi.org/10.7927/1a5z-3h71>.

Source: (ATO 2026)

Shifting Mode Shares

Modal shift in cities



Road Safety

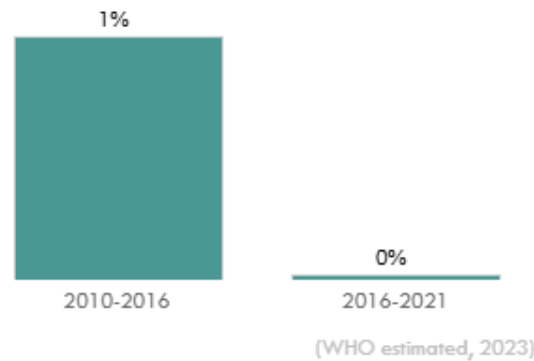
Population (2024)
245 Million

GDP per capita, PPP (2025)
6,573 USD
Low and lower middle income

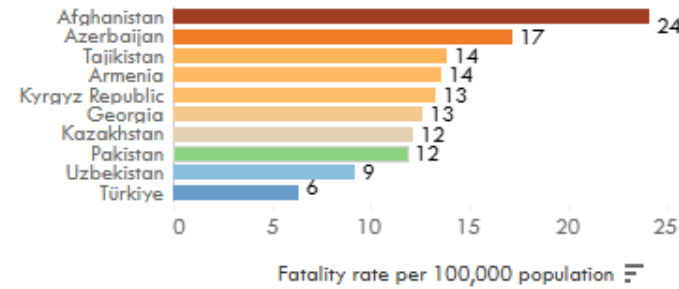
WHO (estimate) road crash
fatalities for Year 2021
27,568 deaths

The country report to WHO recorded
5,816 deaths in 2021

Annual average growth rate of road crash
fatalities

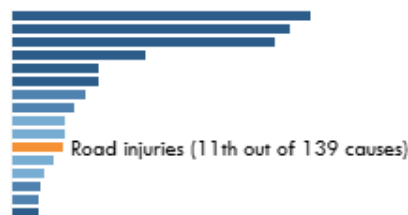


WHO estimated road crash fatality rate in Pakistan
compared to other countries in Central and West Asia (2021)



The country report to WHO recorded **2.4 deaths per 100,000 population in 2021**

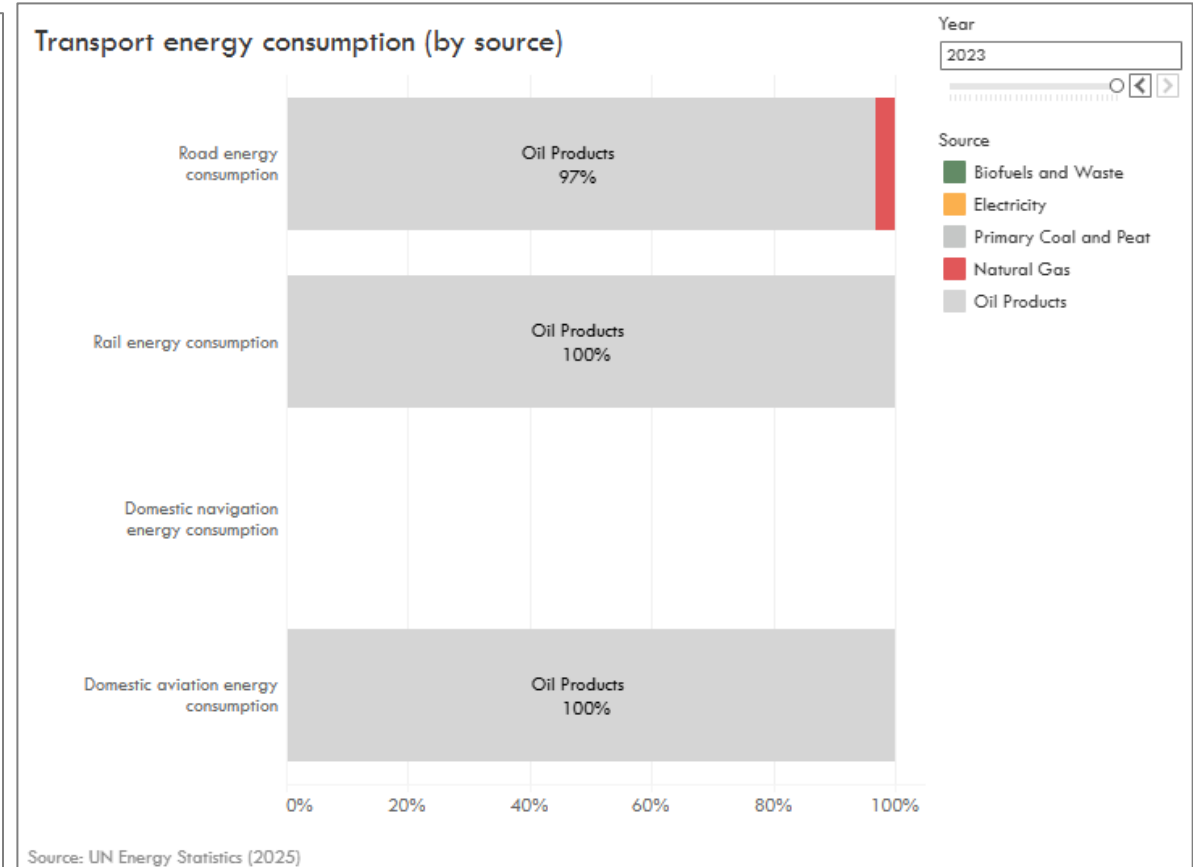
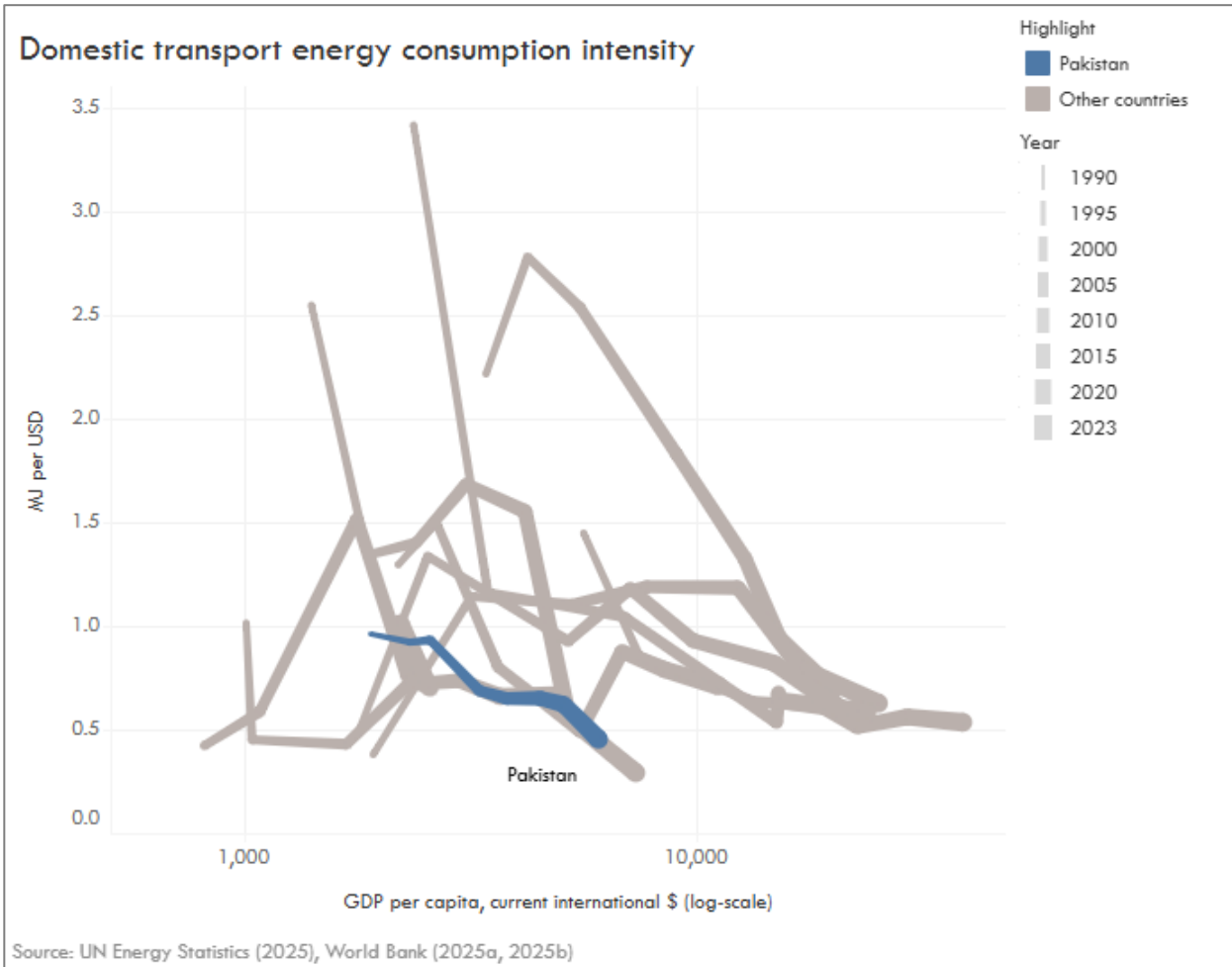
Causes of mortalities in Pakistan (2021)



Policy measures in Pakistan with indirect benefit to road safety

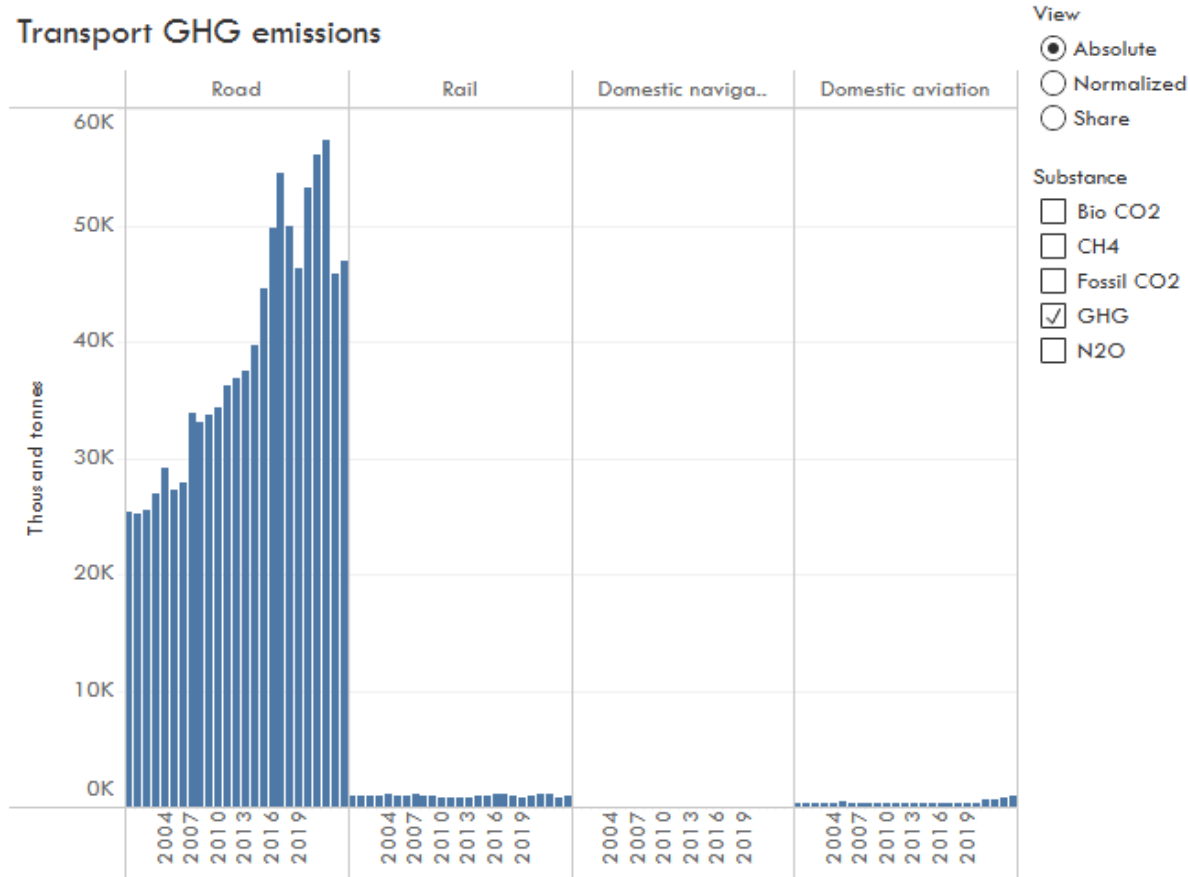


Energy Consumption



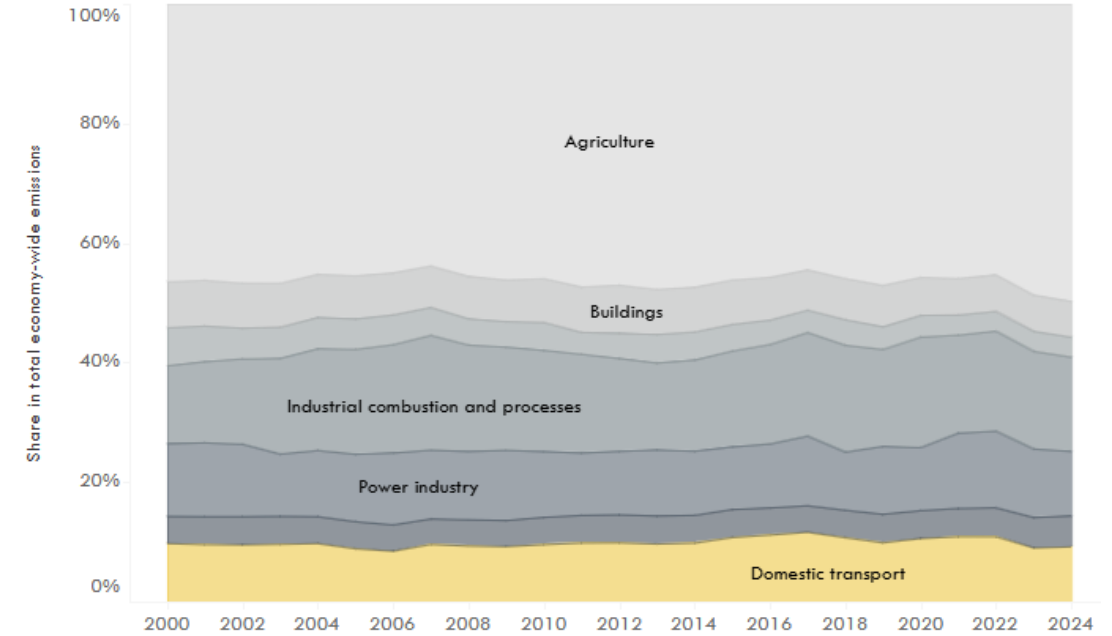
GHG Emissions

Transport GHG emissions



Source: EDGAR. (2025). GHG emissions of all world countries: 2025. Publications Office. <https://data.europa.eu/doi/10.2760/9816914>

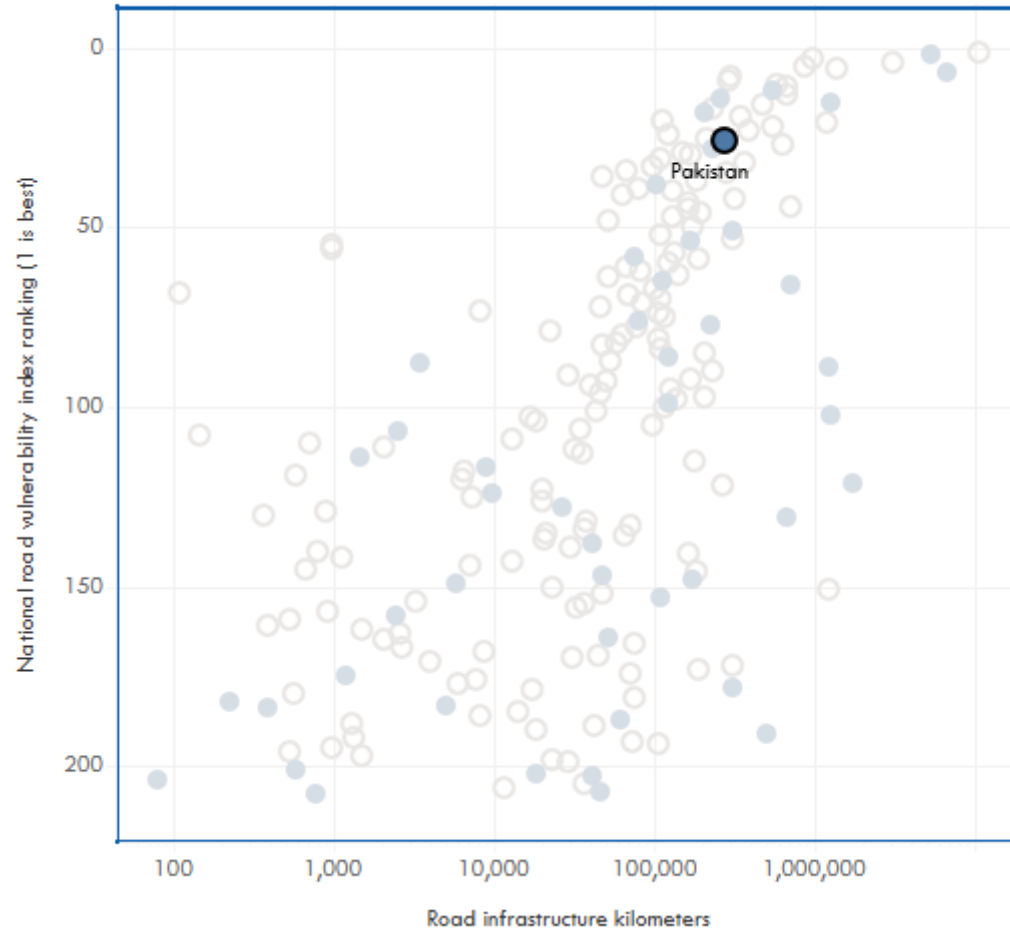
GHG emissions by sector



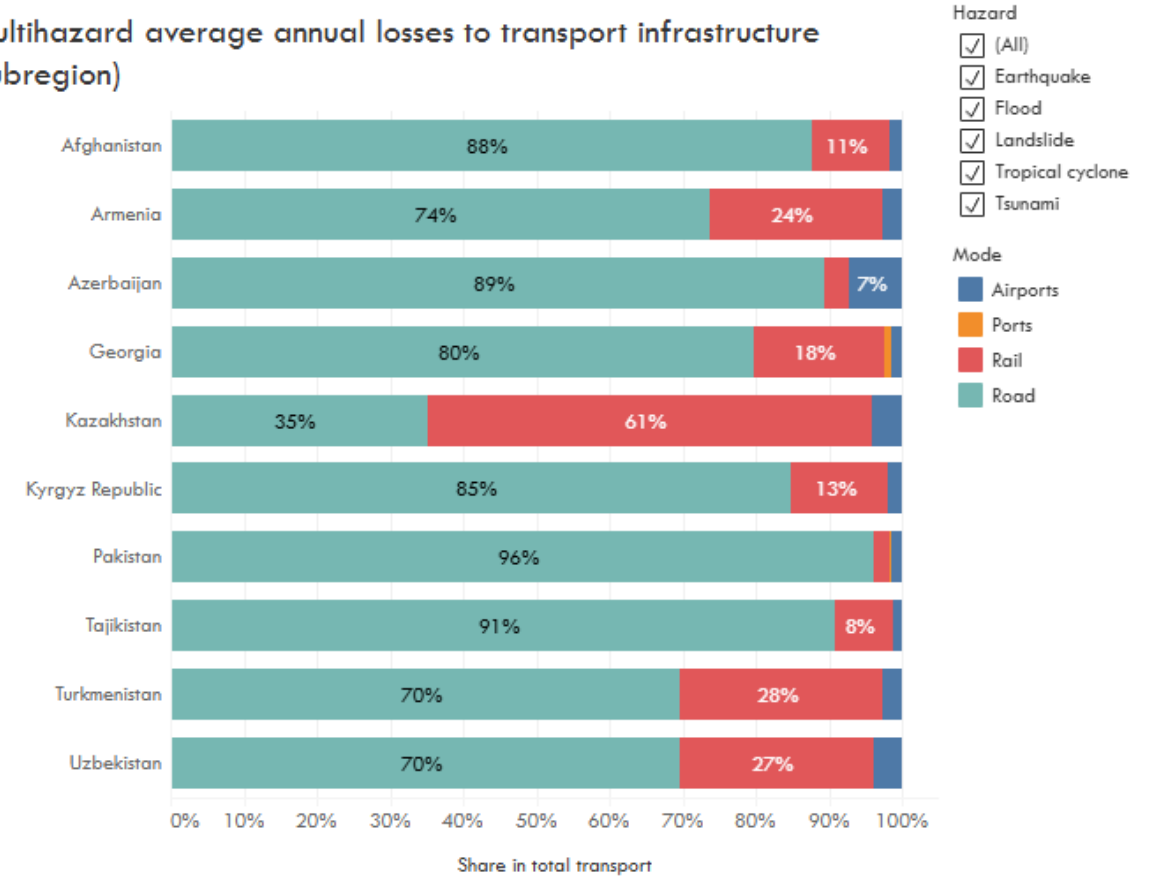
Source: EDGAR. (2025). GHG emissions of all world countries: 2025. Publications Office. <https://data.europa.eu/doi/10.2760/9816914>

Resilience

National road vulnerability index



Multihazard average annual losses to transport infrastructure (subregion)



Source: CDRI (2023)

Finance



Asia and the Pacific Transport Development Finance Explorer

Tracking finance for low-carbon, resilient, safe, and inclusive transport

Commitments

\$15.9B

Donors

32

Agencies

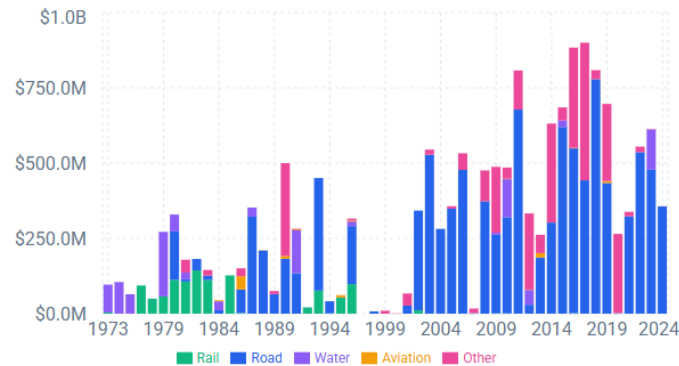
53

Records

2,781

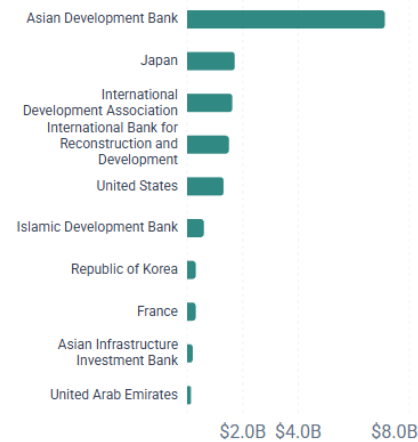
Development Finance over Time

Yearly commitments received by the selected recipient by transport mode, constant 2024 USD.



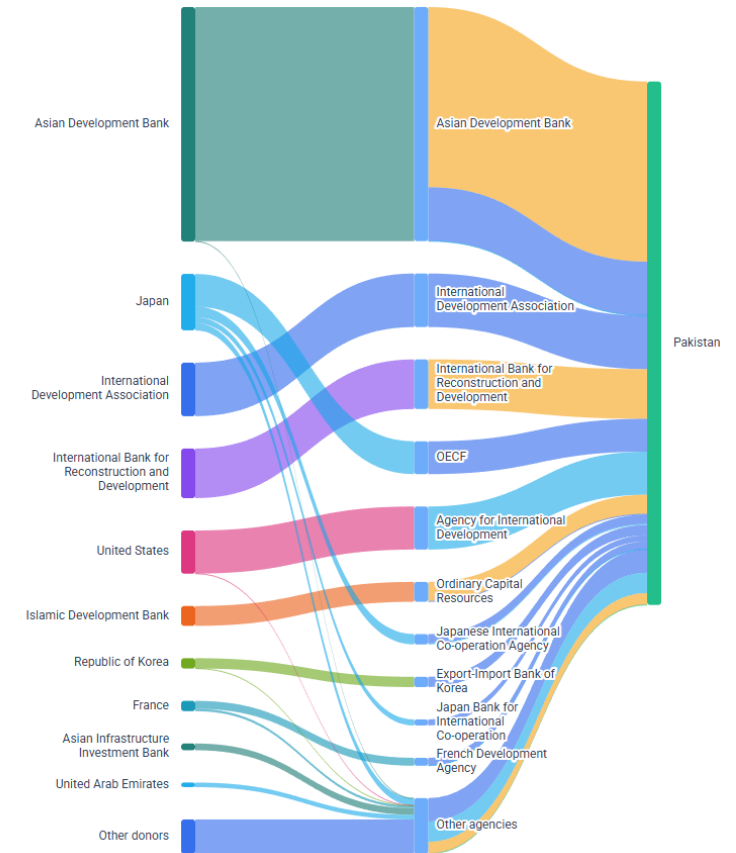
Top Donors

Largest donors in the selected recipient's selection.



Recipient-link colors: flow type

ODA Grants ODA Loans Other Official Flows Equity Investment Other Flow Types



Developed with the support of

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► [Economies](#) Count 1 / 1 

▼ [Indicators](#)  Count 546 / 546 



Select All 546  | Reset 

☒ INFRASTRUCTURE (INF) 

☒ TRANSPORT ACTIVITY & SERVICES (TAS) 

☒ ACCESS & CONNECTIVITY (ACC) 

☒ ROAD SAFETY (RSA) 

☒ AIR POLLUTION & HEALTH (APH) 

☒ CLIMATE CHANGE (CLC) 

☒ SOCIO-ECONOMIC (SEC) 

☒ MISCELLANEOUS (MIS) 

► [Time](#) Count 0 / 111 

ATO National Database

Download formatted data

☒ Indicator view

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

☐ Country view

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

 XLSX

Download raw data

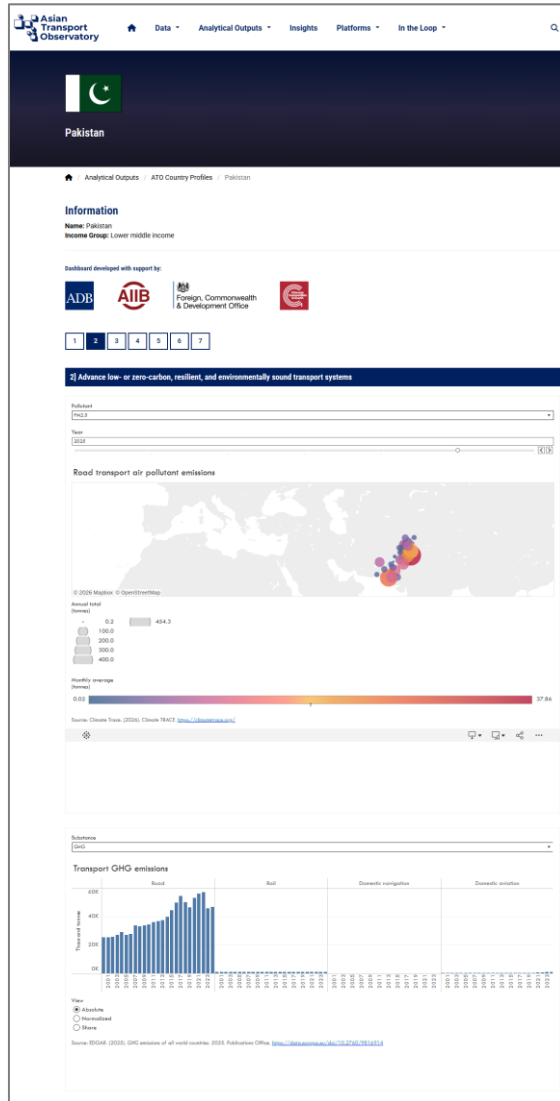
This is best for further analysis using third-party software like Excel.

 XLSX

 CSV

 JSON

Database connection: 

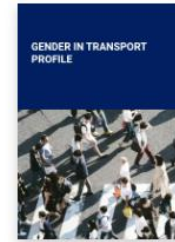


Maritime Transport Profile



version June 2026

Gender in Transport Profile



version March 2026



version July 2024

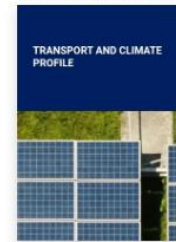
Transport and Air Pollution Profile



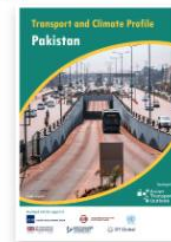
version March 2026



Transport and Climate Profile



version February 2026



version October 2024



version May 2024

Green Roads Profile



version December 2025



version May 2024

Road Safety Profile

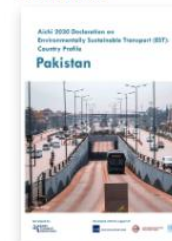


version September 2025



version December 2023

Aichi Profile



version December 2024

Rail Sector Profile



version November 2024

E-mobility Profile



version February 2024

Transport Sector Profile



version September 2023

asiantransportobservatory.org

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

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