



The Asian Transport Observatory (ATO) –

**REGIONAL CAPACITY BUILDING PROGRAMME:
AIR POLLUTION EMISSIONS INVENTORY FOR ASIA-PACIFIC**

ALVIN MEJIA
Co-Team Lead
July 24, 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

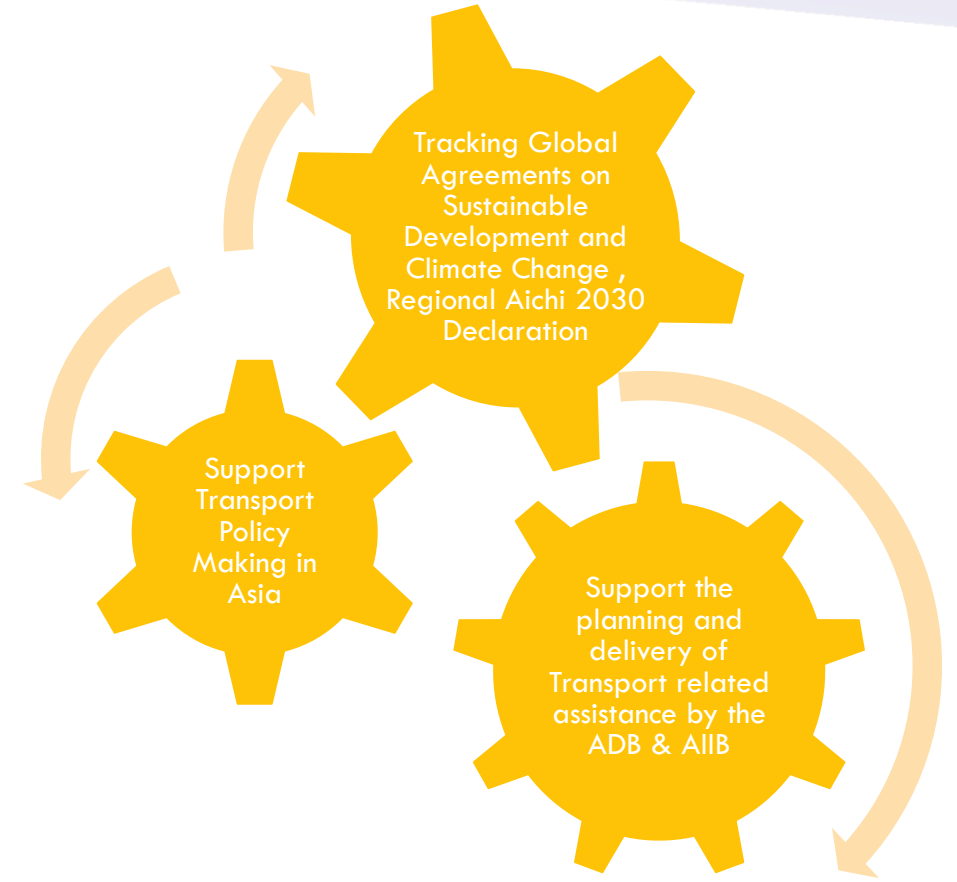
Read about analysis made using ATO transport data and policy information

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)
- >50** Urban Centers with a detailed review



Asian Transport Observatory (ATO)

A Catalyst for Sustainable Transport in Asia

The High-Level 16th Regional Environmentally Sustainable Transport (EST) Forum in Asia (10-12 December 2024, Manila, the Philippines)

2024/12/10 to 2024/12/12

📍 Manila, the Philippines

High-Level 16th Regional Environmentally Sustainable Transport Forum in Asia

“Sustainable Urban Mobility Solutions- Empowering Cities towards Low Carbon Pathways for Achieving Co-benefits & Economic Resilience in the SDGs Era”

10-12 December 2024
Manila, Philippines



Event name: The High-Level 16th Regional Environmentally Sustainable Transport (EST) Forum in Asia
Date: 10-12 December 2024
Venue: Asian Development Bank (ADB) Headquarters, Manila, the Philippines

Issued without formal editing/20 Oct 2021 Final Version

Aichi 2030 Declaration on Environmentally Sustainable Transport - Making Transport in Asia Sustainable (2021-2030)

Sustainable Transport Goals for Achieving Universally Accessible, Safe, Affordable, Efficient, Resilient, Clean and Low-carbon Passenger and Freight Transport in Asia

1. We, the participants, who are representatives of Asian countries (Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, Indonesia, India, Islamic Republic of Iran, Japan, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nepal, the Philippines, Russian Federation, Singapore, Sri Lanka, Thailand, and Viet Nam)¹, international organizations, bilateral and multilateral agencies, non-governmental organizations (NGOs), research organizations, and expert sustainable transport professionals, having met at the Fourteenth Regional Environmentally Sustainable Transport (EST) Forum in Asia, held in Tokoname City, Aichi Prefecture, Japan, 18th - 20th October 2021, inspired by the Sustainable Development Goals, the Paris Agreement on Climate Change, the New Urban Agenda and other global agreements, adopt the non-legal, non-binding Aichi 2030 Declaration on Making Transport in Asia Sustainable (the Aichi 2030 Declaration). We affirm our interest in, and commitment to, realizing a decade (2021-2030) of progress in sustainable actions and measures for achieving universally accessible, safe, affordable, efficient, clean, low-carbon, resilient, multi-modal passenger and freight transport in Asia.²

I. Preamble

- i. **Recognizing** the urgent need for immediate greater action on sustainability of transport systems in Asia. This considering that by 2030, it is projected that Asia will have about half of the global population, with an increasing number living in cities, close to 40% of global Gross Domestic Product (GDP) (in Purchasing Power Parity), one third of global transport CO2 emissions, and almost 60% of worldwide road crash fatalities;³
- ii. **Acknowledging** the global agreements, since 2010, that have a direct relevance for the transport sector in Asia: the 2030 Agenda for Sustainable Development, the Paris Agreement on climate change, the New Urban Agenda, the Addis Ababa Action Agenda on Financing for Development, the second UN Decade of Action for Road Safety 2021-2030, the Sendai Framework for Disaster Risk Reduction 2015-2030, and the UNCTAD Nairobi Mandate;
- iii. **Agreeing** that the successful implementation of these global agreements will require policies and actions that combine “developing” the transport sector through the provision of additional sustainable, low carbon transport infrastructure and services⁴ to

¹ The Aichi 2030 Declaration is open to all Asia-Pacific countries to voluntarily join.

² The scope of the Declaration is mainly on land transport. It excludes international aviation and international shipping. Domestic aviation and shipping, including inland water transport are, however, considered to be part of the Declaration.

³ Sources: World Bank, SLOCAT Partnership and World Health Organization.

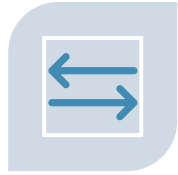
⁴ See in this context the G20 Principles for Quality Infrastructure

Aichi Declaration on EST

ATO USP!



Multiple Sources for single indicator



Multiple Dimensions & Modes



Data and Policy



Historical & Outlook



Tracking Instrument for SDG/PA/Aichi Declaration



Incremental Approach



Partnerships



On-demand Research



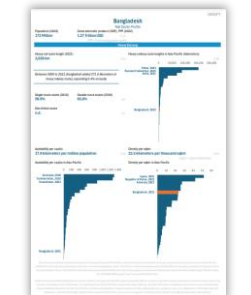
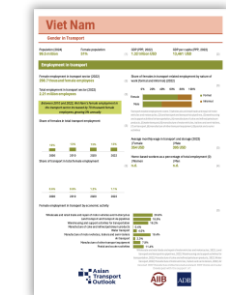
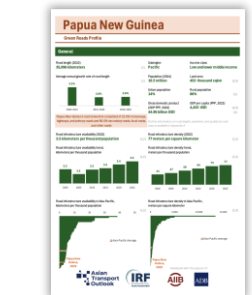
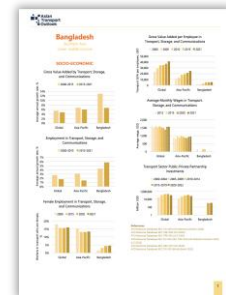
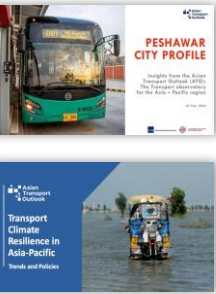
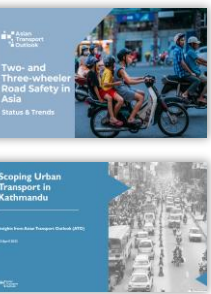
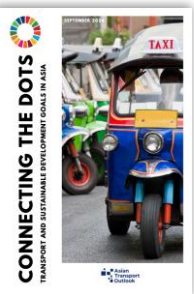
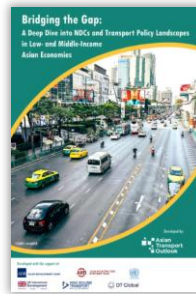
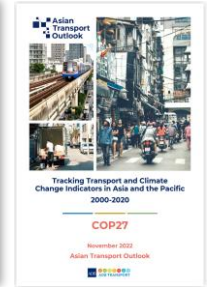
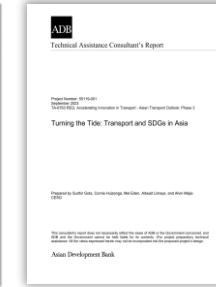
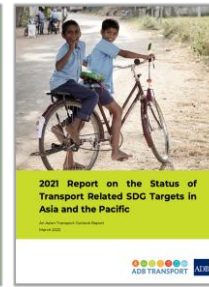
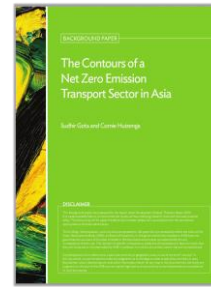
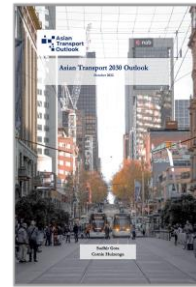
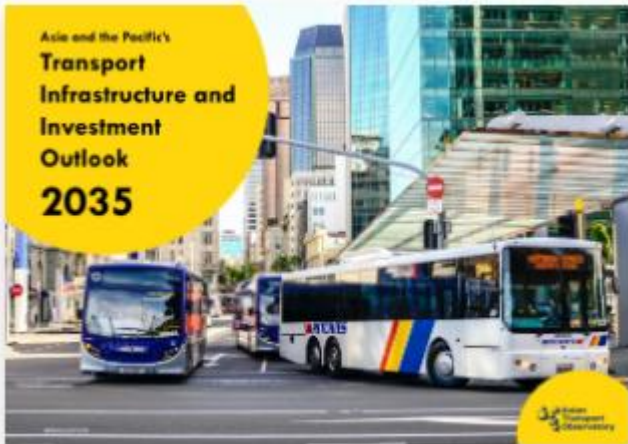
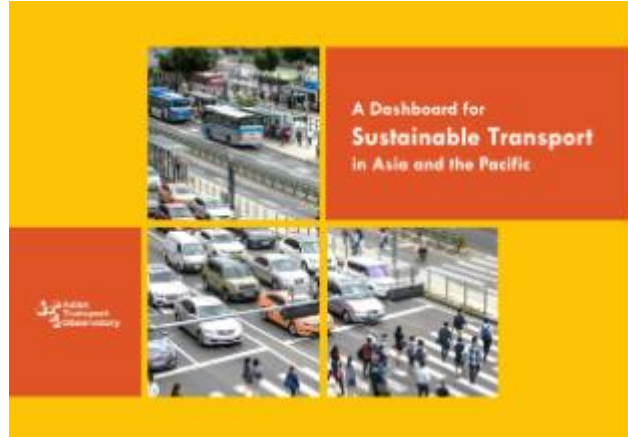
2024-10-18

Update

Asian Development Bank (ADB) has Won the 2024 IRF Award for Environmental Stewardship for Asian Transport Outlook!

The Asian Development Bank (ADB) has won the prestigious IRF Awards 2024 - Environmental Stewardship category for the ADB-initiated Asian Transport Outlook (ATO)! The IRF Awards recognizes outstanding projects and initiatives that foster innovation, safety, and sustainability in the road transport sector.

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)

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



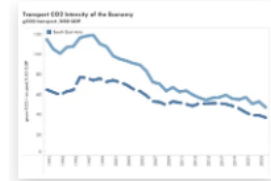
Urban Access to Public Transport - Visualization

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—focuses on how well urban residents have access to public transport, social equity, environmental sustainability, and economic opportunity.

Interactive Visualization

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



Transport CO2 Intensity of the Economy

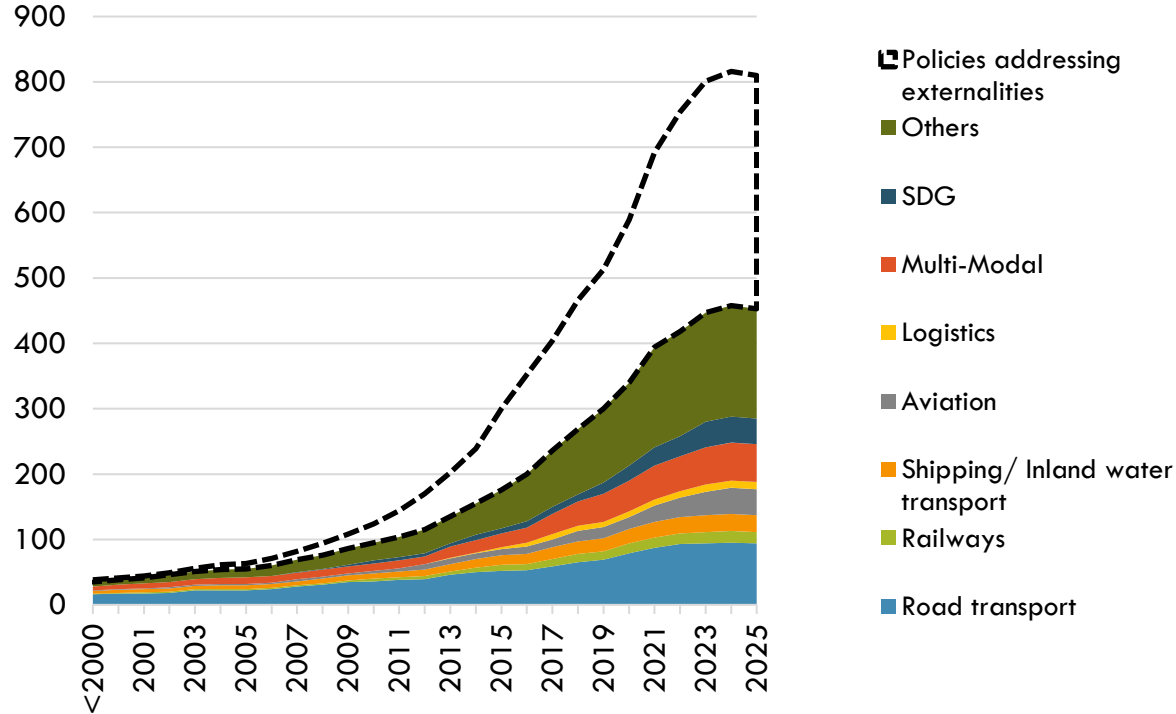
2024-10-15

Interactive Visualization

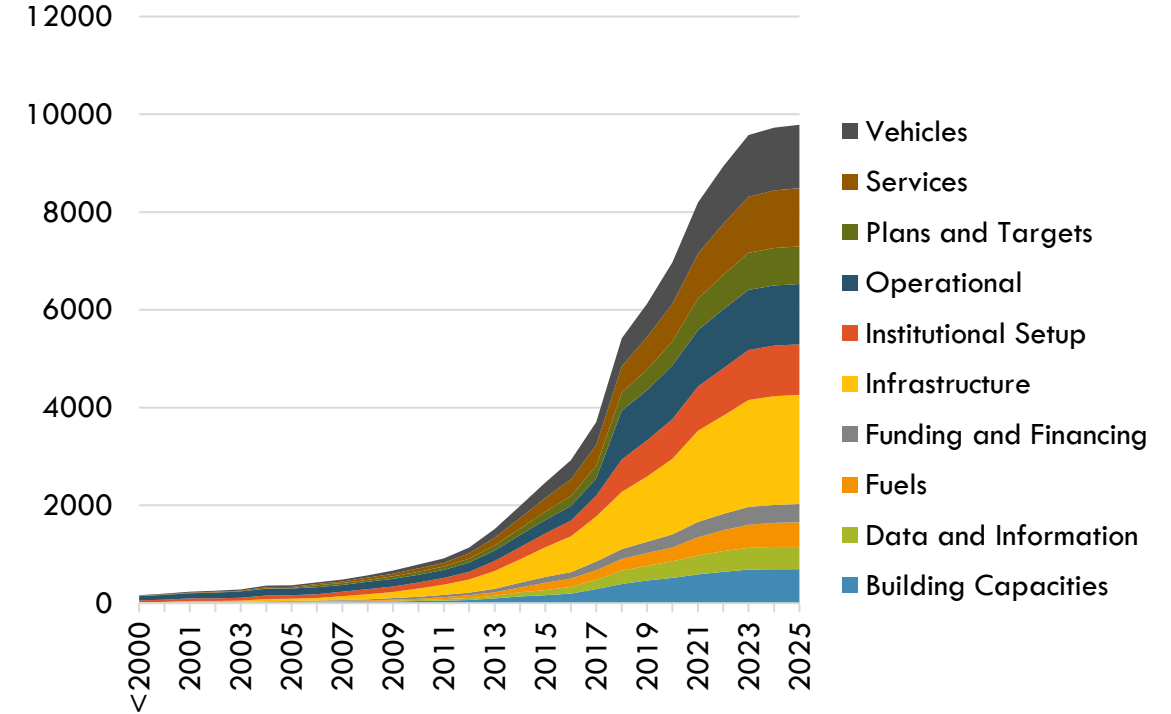
Tags:

Unique Approach – Connecting Data with Policies

Cumulative number of transport policy documents



Cumulative number of transport measures



42 countries

840+ policy documents

9800+ policy measures

890+ targets

ATO National Database

9 Main Categories - 459 Indicators 



ATO Urban Database

9 Main Categories - 233 Indicators 

11



Socio-economic

20



Urban Form and Structure + Landuse

39



Infrastructure

74



Transport Activity and Services

25



Access and Connectivity

7



Road Safety

21



Air Pollution and Health

27



Climate Change

9



Miscellaneous



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.



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ATO National Database

Explore Data



Outline

- [About the ATO National Database](#)
- [ATO National Database Masterlist of Indicators](#)
- [ATO National Database User Guide](#)

About the ATO National Database

The Asian Transport Outlook (ATO) National Database is a collection of national-level indicators on the transport sector in 51 economies in the Asia Pacific region using about 400 indicators. The database also includes relevant information on policy frameworks for transport in these economies.

The information is organized into 9 workbooks:

1. [Infrastructure \(INF\)](#)
2. [Transport Activity & Services \(TAS\)](#)
3. [Access & Connectivity \(ACC\)](#)
4. [Road Safety \(RSA\)](#)
5. [Air Pollution & Health \(APH\)](#)
6. [Climate Change \(CLC\)](#)
7. [Socio-Economic \(SEC\)](#)
8. [Transport Policy \(POL\)](#)
9. [Miscellaneous \(MIS\)](#)

All data is derived from publicly available sources. It includes primary data gathered from country sources like national statistics agencies or transport ministries as well as secondary data published by different institutions. The sources and weblinks are included in the indicator metadata.

Explore the ATO National Database



ATO National Database Masterlist of Indicators

The ATO Masterlist of national level Indicators provides an overview of the indicators that have been gathered and documented in the ATO National Database. This provides tabular information about the

▼ How to extract ATO National Data

Select ATO economies AND indicators AND time period of interest


1. Click ▼ to filter the list of items
2. Select the desired download format
3. Click **Download** to download the data



- [View the ATO National Database User Guide](#)
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▶ Economies	Count 0 / 52	✖
▶ Indicators 	Count 0 / 507	✖
▶ 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](#)

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  CSV
  JSON

Clipboard: Paste, Cut, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color

Alignment: Merge & Center, Text Alignment options

Number: General, Percentage, Decimals, Fractions

Styles: Normal, Bad, Good, Neutral, Check Cell, Explanatory..., Followed Hy..., Hyperlink, Input

P29

A B C D E F G H I J



ATO National Database - TRANSPORT ACTIVITY & SERVICES (TAS) Workbook

Subcategory	Indicator name	Indicator code	Scope	Mode	Sector	Source	Sheet
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Railways	TAS-PAT-001(1)	National	Rail	Passenger	UN Statistics Division, ITF	TAS-PAT-001(1)
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Railways	TAS-PAT-001(2)	National	Rail	Passenger	International Union of Railways (UIC)	TAS-PAT-001(2)
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Railways	TAS-PAT-001(3)	National	Rail	Passenger	World Bank (WB)	TAS-PAT-001(3)
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Railways	TAS-PAT-001(4)	National	Rail	Passenger	Country Official Statistics	TAS-PAT-001(4)
Passenger Activity Transit (PAT)	Passengers transported - Railways	TAS-PAT-018	National	Rail	Passenger	Country Official Statistics	TAS-PAT-018
Passenger Activity Transit (PAT)	Passengers transported - Urban rail	TAS-PAT-019	National	Rail	Passenger	Country Official Statistics	TAS-PAT-019
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Waterways/shipping	TAS-PAT-002	National	Shipping/Waterways/Navigation	Passenger	Country Official Statistics	TAS-PAT-002
Passenger Activity Transit (PAT)	Passengers transported - Waterways/shipping	TAS-PAT-020	National	Shipping/Waterways/Navigation	Passenger	Country Official Statistics	TAS-PAT-020
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Domestic Aviation	TAS-PAT-003(2)	National	Aviation	Passenger	International Council on Clean Transportation (ICCT)	TAS-PAT-003(2)
Passenger Activity Transit (PAT)	Passengers transported - Aviation	TAS-PAT-021	National	Aviation	Passenger	Country Official Statistics	TAS-PAT-021
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - Bus	TAS-PAT-004	National	Road	Passenger	Country Official Statistics	TAS-PAT-004
Passenger Activity Transit (PAT)	Passengers transported - Road	TAS-PAT-022	National	Road	Passenger	Country Official Statistics	TAS-PAT-022
Passenger Activity Transit (PAT)	Passengers Kilometer Travel - HSR	TAS-PAT-005	National	Rail	Passenger	International Union of Railways (UIC)	TAS-PAT-005
Passenger Activity Transit (PAT)	Air transport, carrier departures	TAS-PAT-011	National	Aviation	Passenger & Freight	World Bank (WB)	TAS-PAT-011
Passenger Activity Transit (PAT)	Aviation International Passenger Kilometers	TAS-PAT-013	Regional	Aviation	Passenger	International Council on Clean Transportation (ICCT)	TAS-PAT-013
Passenger Activity Transit (PAT)	Aviation Trips per capita	TAS-PAT-015(1)	National	Aviation	Passenger & Freight	Estimated using World Bank data	TAS-PAT-015(1)
Passenger Activity Transit (PAT)	Aviation Trips per capita	TAS-PAT-015(2)	National	Aviation	Passenger & Freight	Airbus	TAS-PAT-015(2)
Passenger Activity Transit (PAT)	Aviation Trips per capita - 2030 Forecast (BAU)	TAS-PAT-016	National	Aviation	Passenger & Freight	Airbus	TAS-PAT-016
Passenger Activity Transit (PAT)	Aviation Total Passenger Kilometers	TAS-PAT-017(1)	National, International	Aviation	Passenger	Country Official Statistics	TAS-PAT-017(1)
Passenger Activity Transit (PAT)	Aviation Total Passenger Kilometers	TAS-PAT-017(2)	National, International	Aviation	Passenger	International Council on Clean Transportation (ICCT)	TAS-PAT-017(2)
Passenger Activity Transit (PAT)	Aviation Total Passenger Kilometers	TAS-PAT-017(3)	National, International	Aviation	Passenger	UN Statistics Division, ITF	TAS-PAT-017(3)
Passenger Activity General (PAG)	Total Passenger Kilometer Travel (Domestic+International)	TAS-PAG-011	National, International	All Modes	Passenger	UN Statistics Division, ITF	TAS-PAG-011
Passenger Activity General (PAG)	Passengers transported - Total	TAS-PAG-015	National	All Modes	Passenger	Country Official Statistics	TAS-PAG-015
Passenger Activity General (PAG)	Total Passenger Kilometer Travel/Capita (Domestic+International)	TAS-PAG-012	National, International	All Modes	Passenger	UN Statistics Division, ITF	TAS-PAG-012
Passenger Activity General (PAG)	Total Passenger Kilometer Travel/GDP (Domestic+International)	TAS-PAG-013	National, International	All Modes	Passenger	UN Statistics Division, ITF	TAS-PAG-013
Passenger Activity General (PAG)	Total Passenger Kilometer Travel Mode Share (Domestic+International)	TAS-PAG-014	National, International	All Modes	Passenger	UN Statistics Division, ITF	TAS-PAG-014
Passenger Activity General (PAG)	Passengers Kilometer Travel - Roads	TAS-PAG-005(1)	National	Road	Passenger	UN Statistics Division, ITF	TAS-PAG-005(1)
Passenger Activity General (PAG)	Passengers Kilometer Travel - Roads	TAS-PAG-005(2)	National	Road	Passenger	World Bank (WB)	TAS-PAG-005(2)
Passenger Activity General (PAG)	Passengers Kilometer Travel - Roads	TAS-PAG-005(3)	National	Road	Passenger	Country Official Statistics	TAS-PAG-005(3)
Passenger Activity General (PAG)	Land Transport Passenger Kilometers Travel	TAS-PAG-010	National	Rail, Road	Passenger	Country Official Statistics	TAS-PAG-010
Passenger Activity General (PAG)	Passengers transported - Total inland	TAS-PAG-016	National	Rail, Road	Passenger	Country Official Statistics	TAS-PAG-016
Freight Activity (FRA)	Freight Transport - Tonne-km (Total) (Domestic+International)	TAS-FRA-022	National, International	All Modes	Freight	UN Statistics Division, ITF	TAS-FRA-022
Freight Activity (FRA)	Freight tonnes transported - Total	TAS-FRA-026	National	All Modes	Freight	Country Official Statistics	TAS-FRA-026
Freight Activity (FRA)	Freight tonnes transported - Domestic	TAS-FRA-027	National	All Modes	Freight	UN Statistics Division, ITF	TAS-FRA-027

▼ How to extract ATO National Data

Select ATO economies AND indicators AND time period of interest


1. Click ▼ to filter the list of items
2. Select the desired download format
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▶ Time	Count 0 / 111	✖

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select the economies (countries)

▶ How to extract ATO National Data

▼ Economies Count 0 / 52

Select All 52 | Reset

- Bangladesh
- Bhutan
- Brunei Darussalam
- Cambodia
- People's Republic of China
- Cook Islands
- Fiji
- Georgia
- India
- Indonesia
- Japan
- Kazakhstan
- Kiribati
- Kyrgyz Republic
- Lao People's Democratic Republic
- Malaysia
- Maldives
- Marshall Islands
- Micronesia (Federated States of)
- Mongolia
- Myanmar
- Niue
- Nauru
- Nepal
- New Zealand
- Pakistan
- Palau
- Papua New Guinea
- Philippines
- Republic of Korea
- Samoa
- Singapore
- Solomon Islands
- Sri Lanka



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Search Indicators ▼

Select All 507 ✓ | Reset ✖

- INFRASTRUCTURE (INF) ▶ ?
- TRANSPORT ACTIVITY & SERVICES (TAS) ▶ ?
- ACCESS & CONNECTIVITY (ACC) ▶ ?
- ROAD SAFETY (RSA) ▶ ?
- AIR POLLUTION & HEALTH (APH) ▶ ?
- CLIMATE CHANGE (CLO) ▶ ?
- SOCIO-ECONOMIC (SEC) ▶ ?
- MISCELLANEOUS (MIS) ▶ ?



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[JSON](#)

select the dimensions (or multiple dimensions) of interest

► How to extract ATO National Data

► Economies Count 1 / 52 ✓

▼ Indicators Count 0 / 507 ✗

Select All 507 ✓ | Reset ✗

- INFRASTRUCTURE (INF) ▼
 - Transport infrastructure Score/Ranking - INF-TTI-001 ▼
 - World Economic Forum (WEF), INF-TTI-001(1)
 - World Bank (WB), INF-TTI-001(2)
 - World Economic Forum (WEF), INF-TTI-001(3)
 - Infrastructure adequacy index - INF-TTI-002
 - Adequacy of roads - INF-TTI-003
 - Adequacy of airports - INF-TTI-004
 - Road length Total - INF-TTI-005 ▼
 - Global Roads Inventory Project (GRIP), INF-TTI-005(1)
 - Transport Research Laboratory (TRL), INF-TTI-005(2)
 - Christopher Barrington-Leigh et al., INF-TTI-005(3)
 - Koks et al., INF-TTI-005(4)
 - Country Official Statistics, INF-TTI-005(5)
 - Transport DataBank, INF-TTI-005(7)
 - Nirandjan, et al., INF-TTI-005(8)
 - International Road Federation, INF-TTI-005(9)
 - Road Length (Main : Primary/Motorways/Highways) - INF-TTI-006 ▼
 - Global Roads Inventory Project (GRIP), INF-TTI-006(1)
 - Country Official Statistics, INF-TTI-006(2)
 - Nirandjan, et al., INF-TTI-006(3)
 - International Road Federation, INF-TTI-006(4)
 - Road Length (Secondary+Local+Others) - INF-TTI-007 ▼
 - Global Roads Inventory Project (GRIP), INF-TTI-007(1)
 - Country Official Statistics, INF-TTI-007(2)
 - Nirandjan, et al., INF-TTI-007(3)
 - International Road Federation, INF-TTI-007(4)
 - Road Density - INF-TTI-008 ▼
 - Global Roads Inventory Project (GRIP), INF-TTI-008(1)
 - Transport Research Laboratory (TRL), INF-TTI-008(2)
 - Christopher Barrington-Leigh et al., INF-TTI-008(3)

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Passenger kil ✕ ▼

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- TRANSPORT ACTIVITY & SERVICES (TAS) ▼ ?
- Passengers Kilometer Travel - Railways - TAS-PAT-001 ▼ ?
 - UN Statistics Division, ITF, TAS-PAT-001(1) ?
 - International Union of Railways (UIC), TAS-PAT-001(2) ?
 - World Bank (WB), TAS-PAT-001(3) ?
 - Country Official Statistics, TAS-PAT-001(4) ?
- Passengers Kilometer Travel - Waterways/shipping - TAS-PAT-002 ?
- Passengers Kilometer Travel - Domestic Aviation - TAS-PAT-003 ▼ ?
 - International Council on Clean Transportation (ICCT), TAS-PAT-003(2) ?
- Passengers Kilometer Travel - Bus - TAS-PAT-004 ?
- Passengers Kilometer Travel - HSR - TAS-PAT-005 ?
- Aviation International Passenger Kilometers - TAS-PAT-013 ?
- Aviation Total Passenger Kilometers - TAS-PAT-017 ▼ ?
 - Country Official Statistics, TAS-PAT-017(1) ?
 - International Council on Clean Transportation (ICCT), TAS-PAT-017(2) ?
 - UN Statistics Division, ITF, TAS-PAT-017(3) ?
- Total Passenger Kilometer Travel (Domestic+International) - TAS-PAG-011 ?
- Total Passenger Kilometer Travel/Capita (Domestic+International) - TAS-PAG-012 ?
- Total Passenger Kilometer Travel/GDP (Domestic+International) - TAS-PAG-013 ?
- Total Passenger Kilometer Travel Mode Share (Domestic+International) - TAS-PAG-014 ?
- Passengers Kilometer Travel - Roads - TAS-PAG-005 ▼ ?
 - UN Statistics Division, ITF, TAS-PAG-005(1) ?
 - World Bank (WB), TAS-PAG-005(2) ?
 - Country Official Statistics, TAS-PAG-005(3) ?
- Land Transport Passenger Kilometers Travel - TAS-PAG-010 ?

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- Recent years: 5 | 10 | 20 | **Up to present** | Projections
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Indicator view – data is organized by indicator

Subcategory	Indicator name	Indicator code	Scope	Mode	Sector	Source	Sheet
Total Transport Infrastructure (TTI)	Transport infrastructure Score/Ranking	INF-TTI-001(1)	National	All Modes	Passenger & Freight	World Economic Forum (WEF)	INF-TTI-001(1)
Total Transport Infrastructure (TTI)	Transport infrastructure Score/Ranking	INF-TTI-001(2)	National	All Modes	Passenger & Freight	World Bank (WB)	INF-TTI-001(2)
Total Transport Infrastructure (TTI)	Transport infrastructure Score/Ranking	INF-TTI-001(3)	National	All Modes	Passenger & Freight	World Economic Forum (WEF)	INF-TTI-001(3)
Total Transport Infrastructure (TTI)	Infrastructure adequacy index	INF-TTI-002	National	All Modes	Passenger & Freight	The Economist Intelligence Unit	INF-TTI-002
Total Transport Infrastructure (TTI)	Adequacy of roads	INF-TTI-003	National	Road	Passenger & Freight	The Economist Intelligence Unit	INF-TTI-003
Total Transport Infrastructure (TTI)	Adequacy of airports	INF-TTI-004	National	Aviation	Passenger & Freight	The Economist Intelligence Unit	INF-TTI-004
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(1)	National	Road	Passenger & Freight	Global Roads Inventory Project (GRIP)	INF-TTI-005(1)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(2)	National	Road	Passenger & Freight	Transport Research Laboratory (TRL)	INF-TTI-005(2)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(3)	National	Road	Passenger & Freight	Christopher Barrington-Leigh et al.	INF-TTI-005(3)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(4)	National	Road	Passenger & Freight	Koks et al.	INF-TTI-005(4)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(5)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-005(5)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(7)	National	Road	Passenger & Freight	Transport DataBank	INF-TTI-005(7)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(8)	National	Road	Passenger & Freight	Nirandjan, et al.	INF-TTI-005(8)
Total Transport Infrastructure (TTI)	Road length Total	INF-TTI-005(9)	National	Road	Passenger & Freight	International Road Federation	INF-TTI-005(9)
Total Transport Infrastructure (TTI)	Road Length (Main : Primary/Motorways/Highways)	INF-TTI-006(1)	National	Road	Passenger & Freight	Global Roads Inventory Project (GRIP)	INF-TTI-006(1)
Total Transport Infrastructure (TTI)	Road Length (Main : Primary/Motorways/Highways)	INF-TTI-006(2)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-006(2)
Total Transport Infrastructure (TTI)	Road Length (Main : Primary/Motorways/Highways)	INF-TTI-006(3)	National	Road	Passenger & Freight	Nirandjan, et al.	INF-TTI-006(3)
Total Transport Infrastructure (TTI)	Road Length (Main : Primary/Motorways/Highways)	INF-TTI-006(4)	National	Road	Passenger & Freight	International Road Federation	INF-TTI-006(4)
Total Transport Infrastructure (TTI)	Road Length (Secondary+Local+Others)	INF-TTI-007(1)	National	Road	Passenger & Freight	Global Roads Inventory Project (GRIP)	INF-TTI-007(1)
Total Transport Infrastructure (TTI)	Road Length (Secondary+Local+Others)	INF-TTI-007(2)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-007(2)
Total Transport Infrastructure (TTI)	Road Length (Secondary+Local+Others)	INF-TTI-007(3)	National	Road	Passenger & Freight	Nirandjan, et al.	INF-TTI-007(3)
Total Transport Infrastructure (TTI)	Road Length (Secondary+Local+Others)	INF-TTI-007(4)	National	Road	Passenger & Freight	International Road Federation	INF-TTI-007(4)
Total Transport Infrastructure (TTI)	Road Density	INF-TTI-008(1)	National	Road	Passenger & Freight	Global Roads Inventory Project (GRIP)	INF-TTI-008(1)
Total Transport Infrastructure (TTI)	Road Density	INF-TTI-008(2)	National	Road	Passenger & Freight	Transport Research Laboratory (TRL)	INF-TTI-008(2)
Total Transport Infrastructure (TTI)	Road Density	INF-TTI-008(3)	National	Road	Passenger & Freight	Christopher Barrington-Leigh et al.	INF-TTI-008(3)
Total Transport Infrastructure (TTI)	Road Density	INF-TTI-008(4)	National	Road	Passenger & Freight	Koks et al.	INF-TTI-008(4)
Total Transport Infrastructure (TTI)	Road Density	INF-TTI-008(5)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-008(5)
Total Transport Infrastructure (TTI)	Road Length/Capita	INF-TTI-009(1)	National	Road	Passenger & Freight	Global Roads Inventory Project (GRIP)	INF-TTI-009(1)
Total Transport Infrastructure (TTI)	Road Length/Capita	INF-TTI-009(2)	National	Road	Passenger & Freight	Transport Research Laboratory (TRL)	INF-TTI-009(2)
Total Transport Infrastructure (TTI)	Road Length/Capita	INF-TTI-009(3)	National	Road	Passenger & Freight	Christopher Barrington-Leigh et al.	INF-TTI-009(3)
Total Transport Infrastructure (TTI)	Road Length/Capita	INF-TTI-009(4)	National	Road	Passenger & Freight	Koks et al.	INF-TTI-009(4)
Total Transport Infrastructure (TTI)	Road Length/Capita	INF-TTI-009(5)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-009(5)
Total Transport Infrastructure (TTI)	Share of paved roads	INF-TTI-010(1)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-010(1)
Total Transport Infrastructure (TTI)	Share of paved roads	INF-TTI-010(2)	National	Road	Passenger & Freight	World Bank (WB)	INF-TTI-010(2)
Total Transport Infrastructure (TTI)	Share of paved roads	INF-TTI-010(3)	National	Road	Passenger & Freight	International Road Federation	INF-TTI-010(3)
Total Transport Infrastructure (TTI)	Share of unpaved roads	INF-TTI-011(1)	National	Road	Passenger & Freight	Country Official Statistics	INF-TTI-011(1)
Total Transport Infrastructure (TTI)	Share of unpaved roads	INF-TTI-011(2)	National	Road	Passenger & Freight	World Bank (WB)	INF-TTI-011(2)
Total Transport Infrastructure (TTI)	Share of unpaved roads	INF-TTI-011(3)	National	Road	Passenger & Freight	International Road Federation	INF-TTI-011(3)
Total Transport Infrastructure (TTI)	Road Quality (Perception)	INF-TTI-012	National	Road	Passenger & Freight	World Economic Forum (WEF)	INF-TTI-012
Total Transport Infrastructure (TTI)	Number of Airports	INF-TTI-014(1)	National	Aviation	Passenger & Freight	Country Official Statistics	INF-TTI-014(1)

Indicator View - Download

Asian Transport Observatory National Database

Indicator: Grid emission factors for electricity
Indicator ATD Code: INF-AFP-003(3)
Description: The methodology for electricity-specific emission factors involves calculating the total emissions from the generation of electricity within a country and dividing that figure by the total amount of electricity produced by the country. Combined Margin (CM) for the grid that is comprised of an Operating Margin (OM) and a Build Margin (BM). The OM and BM are terms defined under the clean development mechanism (CDM) for grid connected electricity generation from renewable sources. (a) The OM represents the cohort of existing power plants whose operation will be most affected (reduced) by the project. (b) The BM represents the cohort of the prospective future power plants whose construction and operation could be affected by the renewable energy project, based on an assessment of planned and expected new generation capacity.

Scope: National
Mode: NA
Sector: NA
Units: gCO2/kWh
Source: Florian Knobloch et al.
Website: <https://www.nature.com/articles/s41893-020-0488-7>

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Meta data included

		Series											
Economy Code	Economy Name	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
KHM	Cambodia												
IDN	Indonesia	996.0	1,005.3	1,003.2	1,055.7	1,021.2	999.5	1,007.1	1,004.3	990.7	926.6	920.4	913.9
PHL	Philippines												

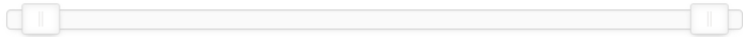
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Economy Name	Economy ISO	ADB Subregion	AIIB Subregion	Income group	Sheet
Cambodia	KHM	South East Asia	Regional members	Lower middle income	KHM
Indonesia	IDN	South East Asia	Regional members	Upper middle income	IDN
Philippines	PHL	South East Asia	Regional members	Lower middle income	PHL

Indicator Metadata

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country view – data is organized by country

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| <input type="checkbox"/> 2016 | <input type="checkbox"/> 2053 | <input type="checkbox"/> 2090 |
| <input type="checkbox"/> 2017 | <input type="checkbox"/> 2054 | <input type="checkbox"/> 2091 |

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- 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.

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

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	A
1	Economy	Economy	Indicator	Indicator	Units	Header	Year		Value																					
2	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2019		96																					
3	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Score	Score	2019		42.3875																					
4	IDN	Indonesia	INF-TTI-0C	Transport	World Eco Rank	Rank	2019		55																					
5	IDN	Indonesia	INF-TTI-0C	Transport	World Eco Score	Score	2019		56.0896																					
6	PHL	Philippine	INF-TTI-0C	Transport	World Eco Rank	Rank	2019		102																					
7	PHL	Philippine	INF-TTI-0C	Transport	World Eco Score	Score	2019		41.5235																					
8	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Ports	2014		62.5%																					
9	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Airports	2014		71.43%																					
10	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Roads	2014		87.5%																					
11	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Rail	2014		87.5%																					
12	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Warehouses	2014		37.5%																					
13	KHM	Cambodia	INF-TTI-0C	Transport	World Bar %	Telecom	2014		37.5%																					
14	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Ports	2014		46.67%																					
15	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Ports	2018		83.0%																					
16	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Airports	2014		26.67%																					
17	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Airports	2018		67.0%																					
18	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Roads	2014		66.67%																					
19	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Roads	2018		83.0%																					
20	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Rail	2014		53.33%																					
21	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Rail	2018		80.0%																					
22	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Warehouses	2014		33.33%																					
23	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Warehouses	2018		40.0%																					
24	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Telecom	2014		20.0%																					
25	IDN	Indonesia	INF-TTI-0C	Transport	World Bar %	Telecom	2018		67.0%																					
26	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Ports	2014		66.67%																					
27	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Ports	2018		75.0%																					
28	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Airports	2014		66.67%																					
29	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Airports	2018		50.0%																					
30	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Roads	2014		66.67%																					
31	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Roads	2018		50.0%																					
32	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Rail	2014		100%																					
33	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Rail	2018		100%																					
34	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Warehouses	2014		66.67%																					
35	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Warehouses	2018		50.0%																					
36	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Telecom	2014		0%																					
37	PHL	Philippine	INF-TTI-0C	Transport	World Bar %	Telecom	2018		75.0%																					
38	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2011		93																					
39	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2012		86																					
40	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2013		82																					
41	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2014		96																					
42	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2015		111																					
43	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2016		108																					
44	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2017		102																					
45	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Rank	Rank	2018		108																					
46	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2011		3.0841																					
47	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2012		3.225																					
48	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2013		3.3835																					
49	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2014		3.1618																					
50	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2015		2.8017																					
51	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2016		2.8326																					
52	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2017		2.9076																					
53	KHM	Cambodia	INF-TTI-0C	Transport	World Eco Value	Value	2018		2.8386																					
54	IDN	Indonesia	INF-TTI-0C	Transport	World Eco Rank	Rank	2011		63																					
55	IDN	Indonesia	INF-TTI-0C	Transport	World Eco Rank	Rank	2012		54																					

Easiest to use for external programs (e.g. R, Excel, Python)

Relevant Indicators*

- Passenger kilometers by mode (by coverage – domestic , international)
- Freight ton-km by mode
- Trips / capita
- Vehicle registrations
- Vehicle sales
- Total energy consumption by mode ; by main fuel types (gasoline ,diesel, nat gas, biofuels, electricity)
- Grid emission factors
- Average pollutant concentrations (e.g. PM2.5)
- Total emissions (different pollutants – Nox, PM2.5, PM10, BC, SOx, , by Mode)

Full List of Relevant Indicators – National Database

Passengers Kilometer Travel - Railways	Freight tonnes transported - Aviation	PM 10 Emissions from Domestic Navigation	Electricity Transport
Passengers transported - Railways	Land Transport Freight Kilometers Travel	PM 10 Emissions from Domestic Aviation	Electricity Road
Passengers transported - Urban rail	Freight tonnes transported - Total inland	Share of Transport in Total PM10 Emissions	Electricity Rail
Passengers Kilometer Travel - Waterways/shipping	Motorised Two Wheeler Sales	PM 2.5 Emissions from Road Transport	Gasoline Road
Passengers transported - Waterways/shipping	Motorised Three Wheeler Sales	PM 2.5 Emissions from Railways Transport	Diesel Road
Passengers Kilometer Travel - Domestic Aviation	LDV Sales	PM 2.5 Emissions from Domestic Navigation	Diesel Rail
Passengers transported - Aviation	Total Vehicle sales (motorised)	PM 2.5 Emissions from Domestic Aviation	Bio-Diesel Road
Passengers Kilometer Travel - Bus	Commercial Vehicle Sales (motorised)	PM 10 Emissions from Road Transport (re-suspended dust)	Bio-Gasoline Road
Passengers transported - Road	Vehicle registration (Motorised 2W)	PM 2.5 Emissions from Road Transport (re-suspended dust)	Natural Gas Road
Passengers Kilometer Travel - HSR	Vehicle registration (Motorised 3W)	BC Emissions from Road Transport (re-suspended dust)	Transport Energy Consumption Mode share
Air transport, carrier departures	Vehicle registration (LDV)	NOx Emissions from Road Transport	Transport - Final consumption of renewable energy (PJ)
Aviation International Passenger Kilometers	Vehicle registration (Bus)	NOx Emissions from Railways Transport	Electricity share in total transport energy consumption in Transport
Aviation Trips per capita	Vehicle registration (Others)	NOx Emissions from Domestic Navigation	Share of Biofuels in Transport Energy Consumption
Aviation Trips per capita -2030 Forecast (BAU)	Freight Vehicle registration	NOx Emissions from Domestic Aviation	Road Energy Consumption
Aviation Total Passenger Kilometers	Total Vehicle Registration	Share of Transport in Total NOx Emissions	Railway Energy Consumption
Total Passenger Kilometer Travel (Domestic+International)	Vehicle registration - Electric 4-wheelers	BC Emissions from Road Transport	Domestic Navigation Energy Consumption
Passengers transported - Total	Vehicle registration - Electric 2/3-wheelers	BC Emissions from Railways Transport	Domestic Aviation Energy Consumption
Total Passenger Kilometer Travel/Capita (Domestic+International)	Vehicle registration - Electric Buses	BC Emissions from Domestic Navigation	Fossil Transport CO2 emissions
Total Passenger Kilometer Travel/GDP (Domestic+International)	Vehicle registration - Electric Trucks	BC Emissions from Domestic Aviation	Fossil Transport share in consumption emissions
Total Passenger Kilometer Travel Mode Share (Domestic+International)	Vehicle registration - Electric Total	Share of Transport in Total BC Emissions	Fossil Transport share in Territorial emissions
Passengers Kilometer Travel - Roads	Motorisation Index	SOX Emissions from Road Transport	Total Transport CO2 emissions
Land Transport Passenger Kilometers Travel	LDV Motorisation Index	SOX Emissions from Railways Transport	Transport CO2 Emissions per Capita
Passengers transported - Total inland	Two and Three Wheelers Motorisation Index	SOX Emissions from Domestic Navigation	Transport CO2 Emissions by GDP
Freight Transport - Tonne-km (Total) (Domestic+International)	Bus Motorisation Index	SOX Emissions from Domestic Aviation	Transport CO2 Emissions - Mode share
Freight tonnes transported - Total	Freight Vehicles Motorisation Index	Share of Transport in Total Sox Emissions	Road in Transport CO2 Emissions
Freight tonne-km/GDP (Domestic+International)	Rail diesel locomotives	Transport PM 10 Emissions	Railways in Transport CO2 Emissions
Freight tonne-km/capita (Domestic+International)	Rail electric locomotives	Transport PM 2.5 Emissions	Shipping/Inland Waterways Transport CO2 Emissions
Total Freight Kilometer Travel Mode Share (Domestic+International)	Rail diesel/electric multiple units	Transport NOx Emissions	Domestic Aviation Transport CO2 Emissions
Freight Transport - Tonne-km for Roads	Rail passenger carriages	Transport BC Emissions	Fossil Transport CH4 emissions
Freight tonnes transported - Road	Rail freight wagons	BC Emission from Diesel Vehicles	Road in Transport CH4 Emissions
Freight Transport - Tonne-km for Railways	Operational bus fleet	Transport SOx Emissions	Railways in Transport CH4 Emissions
Freight tonnes transported - Railways	Concentrations of fine particulate matter (PM2.5)	Percent contribution of source category to particulate matter (PM2.5 or PM10)	Shipping/Inland Waterways Transport CH4 Emissions
Freight Transport - Tonne-km for Waterways/shipping (Domestic)	Concentrations of fine particulate matter (PM2.5) - Urban	Deaths due to Occupational exposure to diesel engine exhaust	Domestic Aviation Transport CH4 Emissions
Freight Transport - Tonne-km for Waterways/shipping (Domestic+International)	Concentrations of fine particulate matter (PM2.5) - Rural	Transport air pollution health impact	Share of Transport CO2 Emissions in Total Fuel Combustion Energy CO2 Emissions
Freight tonnes transported - Shipping	Premature deaths from ambient air pollution	Annual cost of health damages from PM 2.5 exposure	Fossil Total Consumption Emissions
Freight Transport - Tonne-km for Aviation (Domestic)	PM 10 Emissions from Road Transport	Total Transport Energy Consumption by mode	Fossil Total Territorial Emissions
Freight Transport - Tonne-km for Aviation (Domestic+International)	PM 10 Emissions from Railways Transport	Total Transport Energy Consumption by source	

In a nutshell...

- Tier 1: Energy consumption (totals by fuel ; mode) ;
- Tier 2:
 - Vehicle registration
 - Passenger km / ton- km (totals by mode)
 - estimated emissions by pollutant type (totals ; mode) based on existing estimates
- Further data needed from other sources:
 - Vehicle fleet distribution by fuel and emissions standards distribution
 - Average loading
 - Direct VKM / year averages

Urban-Level Data

▶ How to extract ATO Urban Data

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- ✓ Hong Kong, China
- ✓ India
- ✓ Indonesia
 - ✓ IDN-1 - Balikpapan
 - ✓ IDN-2 - Bandar Lampung
 - ✓ IDN-3 - Bandung
 - ✓ IDN-4 - Banjarmasin
 - ✓ IDN-5 - Batam City
 - ✓ IDN-6 - Cilacap
 - ✓ IDN-7 - Cilegon
 - ✓ IDN-8 - Cirebon
 - ✓ IDN-9 - Denpasar
 - ✓ IDN-10 - Garut
 - ✓ IDN-11 - Jakarta
 - ✓ IDN-12 - Jambi
 - ✓ IDN-13 - Jember
 - ✓ IDN-14 - Jombang
 - ✓ IDN-15 - Kuningan
 - ✓ IDN-16 - Madiun
 - ✓ IDN-17 - Magelang
 - ✓ IDN-18 - Makassar
 - ✓ IDN-19 - Mataram
 - ✓ IDN-20 - Medan
 - ✓ IDN-21 - Mojokerto
 - ✓ IDN-22 - Padang
 - ✓ IDN-23 - Palembang
 - ✓ IDN-24 - Pati
 - ✓ IDN-25 - Pekalongan
 - ✓ IDN-26 - Pekanbaru
 - ✓ IDN-27 - Pontianak

▶ Indicators Count 233 / 233

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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

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Urban Center View

J11 : X ✓ fx 20458287.6206

ATO UC Code: IDN-11 Urban Center Name: Jakarta, Indonesia ADB Subregion: South East Asia AIB Subregion: Regional members Income Level: Upper middle income																							
<< Table of Contents																							

Indicator code	Indicator name	Subindicator	Unit	Mode	Source	Remarks	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
INF-UB-038(1)	Metro Route /km per capita		Kilometers per capita	Rail	UITP-GUMI																						
TAS-UB-001(1)	Modal split (Passenger) - by trips - Car		%	Road	Clke et al. (2019)						41.00%	41.00%	41.00%	41.00%	41.00%	41.00%	41.00%	41.00%	41.00%								
TAS-UB-001(4)	Modal split (Passenger) - by trips - Car		%	Road	Google Environmental Explorer																23.60%						20.60%
TAS-UB-001(N)	Modal split (Passenger) - by trips - Car	[1]	%	Road	Non-aggregated sources	Remarks [1]: Gr							8.60%														12.00%
TAS-UB-002(1)	Modal split (Passenger) - by trips - Public Transport		%	Rail, Road	Clke et al. (2019)						36.00%	36.00%	36.00%	36.00%	36.00%	36.00%	36.00%	36.00%	36.00%	36.00%							
TAS-UB-002(2)	Modal split (Passenger) - by trips - Public Transport		%	Rail, Road	World Bank, MQUID (India), TEEMP Defaults																						
TAS-UB-002(4)	Modal split (Passenger) - by trips - Public Transport		%	Rail, Road	Google Environmental Explorer																						3.63%
TAS-UB-002(N)	Modal split (Passenger) - by trips - Public Transport	[1]	%	Rail, Road	Non-aggregated sources	Remarks [1]: Pa																					4.18%
TAS-UB-003(1)	Modal split (Passenger) - by trips - Cycle		%	Road	Clke et al. (2019)				59.12%																		
TAS-UB-003(2)	Modal split (Passenger) - by trips - Cycle		%	Road	World Bank, MQUID (India), TEEMP Defaults																						
TAS-UB-003(5)	Modal split (Passenger) - by trips - Cycle		%	Road	Google Environmental Explorer																						0%
TAS-UB-004(1)	Modal split (Passenger) - by trips - Walk		%	Road	Clke et al. (2019)						18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%							5.33%
TAS-UB-004(4)	Modal split (Passenger) - by trips - Walk		%	Road	Google Environmental Explorer																						63.30%
TAS-UB-005(3)	Modal split (Passenger) - by trips - 2W		%	Road	Google Environmental Explorer																						63.30%
TAS-UB-005(N)	Modal split (Passenger) - by trips - 2W	[1]	%	Road	Non-aggregated sources	Remarks [1]: Gr							41.20%														62.80%
TAS-UB-006(N)	Modal split (Passenger) - by trips - IPT	[1]	%	Road	Non-aggregated sources	Remarks [1]: Dk							1.80%														2.60%
TAS-UB-008(1)	Basic Travel Demand Factor		Factor	NA	Calculated (using GHS (European Commission))													263.25									
TAS-UB-008(2)	Basic Travel Demand Factor		Factor	NA	Calculated (using Clke et al. (Demographia))															304.17							
TAS-UB-009(1)	Congestion level		%	Road	Clke et al. (2019) (TomTom)														58.00%								
TAS-UB-009(2)	Congestion level		%	Road	TomTom																						34.00%
TAS-UB-010(1)	Congestion Ranking		Rank	Road	TomTom																						46.00
TAS-UB-011(1)	Traffic Index		Index	Road	Numbeo																260.88						19.00
TAS-UB-012(1)	Time Index		Minutes	Road	Numbeo																54.26						
TAS-UB-013(1)	Congestion factor		Factor	Road	Clke et al. (2019)																	0.87					
TAS-UB-016(N)	Modal split (Passenger) - by trips - Taxi	[1]	%	Road	Non-aggregated sources	Remarks [1]: Gr																					
TAS-UB-019(1)	Modal split (Passenger) - by trips - Bus		%	Road	Google Environmental Explorer																0.58%						1.09%
TAS-UB-019(N)	Modal split (Passenger) - by trips - Bus	[1]	%	Road	Non-aggregated sources	Remarks [1]: Gr							17.10%														2.40%
TAS-UB-020(1)	Modal split (Passenger) - by trips - Urban rail		%	Rail	Google Environmental Explorer																0%						0%
TAS-UB-020(N)	Modal split (Passenger) - by trips - Urban rail	[1]	%	Rail	Non-aggregated sources	Remarks [1]: Gr																					1.40%
TAS-UB-021(2)	Modal split (Passenger) - by trips - Other modes		%	All Modes	Google Environmental Explorer																3.05%						3.09%
TAS-UB-021(N)	Modal split (Passenger) - by trips - Other modes	[1]	%	All Modes	Non-aggregated sources	Remarks [1]: Gr							23.90%														17.00%
TAS-UB-022(N)	Modal split (Passenger) - by trips - Private Transport		%	Road	Non-aggregated sources	Remarks [1]: Pa			40.88%																		
TAS-UB-024(N)	Public transport service coverage	[1]	%	Rail, Road	Non-aggregated sources	Remarks [1]: Gr																					49.37%
TAS-UB-026(N)	Ridership (Metro)	[1]	mln. count / day	Rail	Non-aggregated sources	Document [1]: S																					0.01
TAS-UB-027(N)	Ridership (suburban rail)	[1]	mln. count / day	Rail	Non-aggregated sources	Remarks [1]: Cd															1.00	0.92					0.00
TAS-UB-028(N)	Ridership (LRT)	[1]	mln. count / day	Rail	Non-aggregated sources	Document [1]: S																					0.00
TAS-UB-030(N)	Ridership (BRT)	[1]	mln. count / day	Road	Non-aggregated sources	Document [1]: S															0.30						0.64
TAS-UB-032(N)	Ridership (Public transport)	[1]	mln. count / day	Rail, Road	Non-aggregated sources	Document [1]: S																					21.20
TAS-UB-043(N)	Vehicle registration (Car)	[1]	Number	Road	Non-aggregated sources	Remarks [1]: Dk																					
TAS-UB-050(N)	Vehicle registration (Taxi)	[1]	Number	Road	Non-aggregated sources	Remarks [1]: Dk																					

< > ... IND-92 IND-93 IND-94 IND-95 IND-96 IND-97 IND-98 IND-99 IND-100 IDN-1 IDN-2 IDN-3 IDN-4 IDN-5 IDN-6 IDN-7 IDN-8 IDN-9 IDN-10 IDN-11 ... + : ◀

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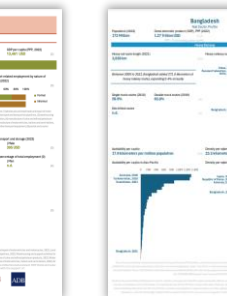
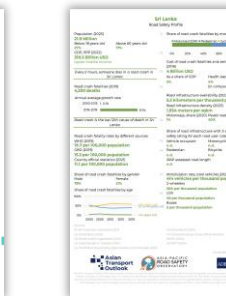
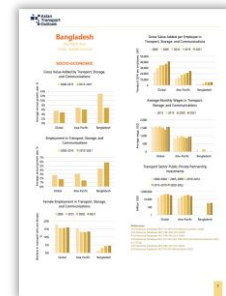
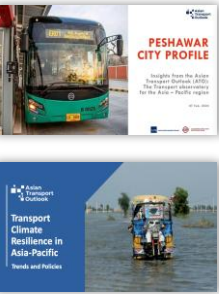
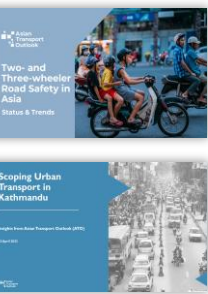
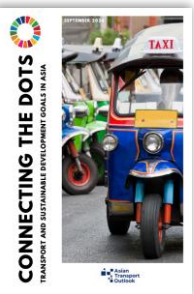
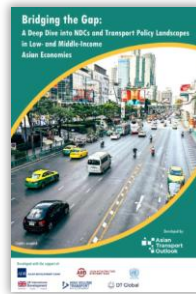
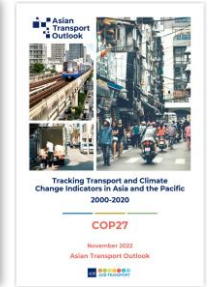
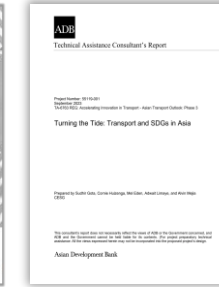
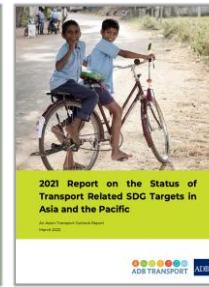
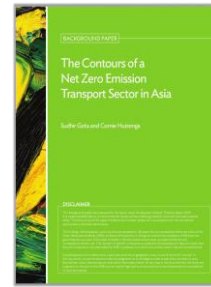
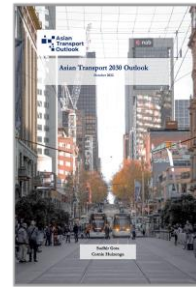
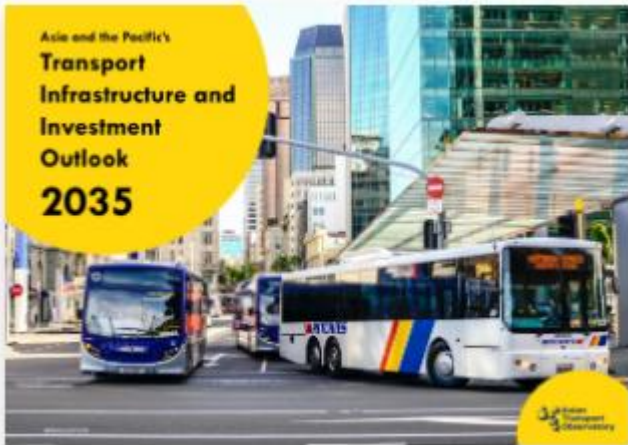
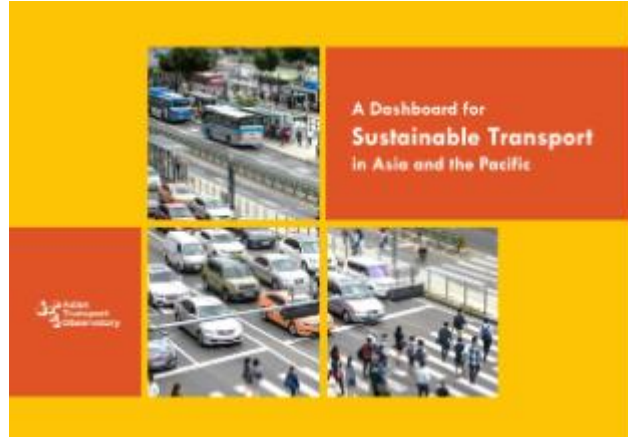


Road Safety Profiles



Gender in mobility Profiles

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 (4 countries)

asiantransportobservatory.org

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

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