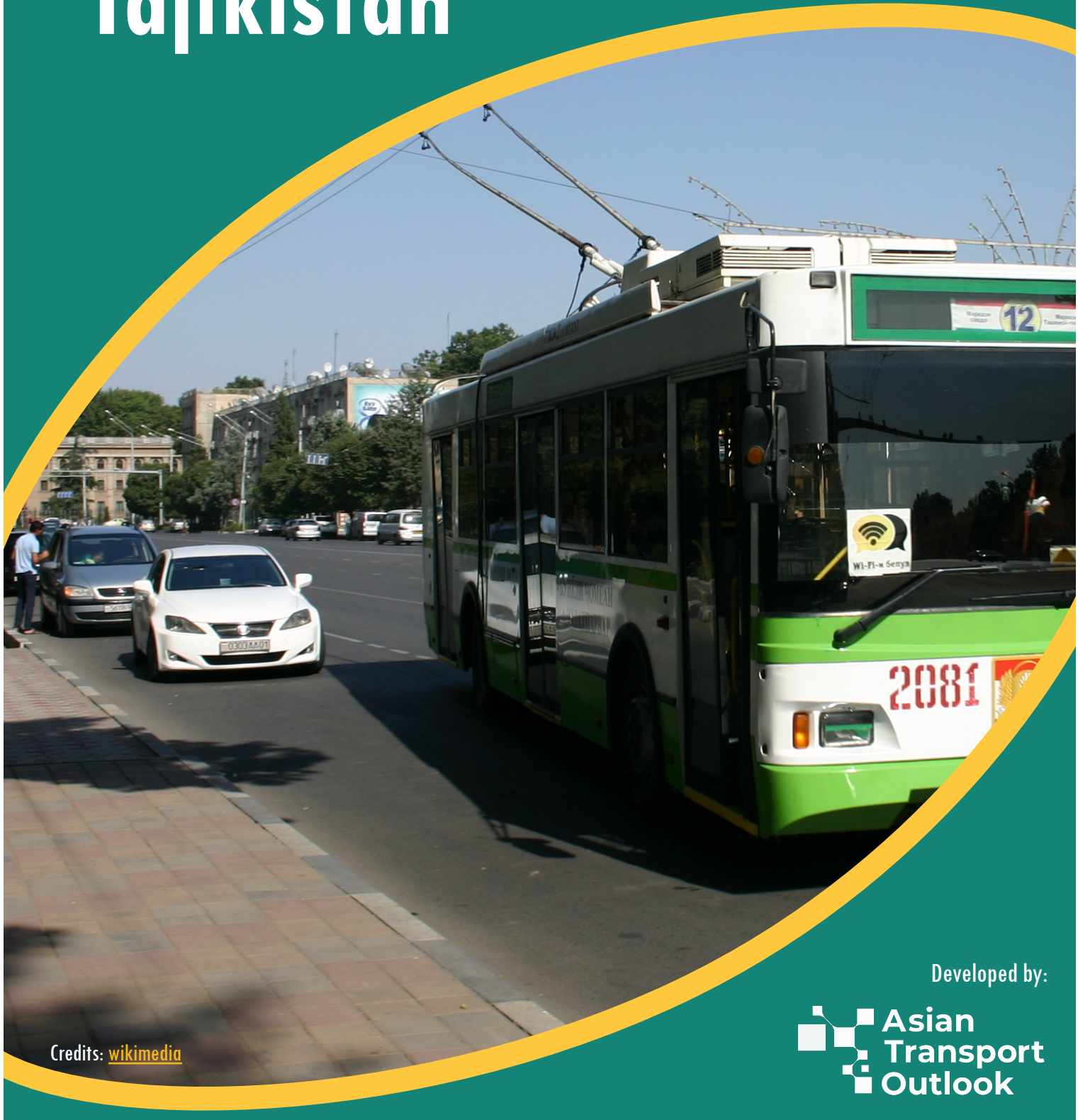


Transport and Climate Profile

Tajikistan



Credits: [wikimedia](#)

Developed by:



Developed with the support of:



Introduction to the profiles: These “Transport and Climate Profiles” are part of the research work entitled “Transport NDC Gap Analysis for Low- and Middle-Income Countries (LMICs) in Asia and the Pacific” which is being implemented and builds on the work of the Asian Transport Outlook (ATO), a project initiated and supported by the Asian Development Bank (ADB). ATO is also being supported by the Asian Infrastructure Investment Bank (AIIB). The research is being co-funded by UKAID through the UK Foreign, Commonwealth and Development Office (FCDO) under the High-Volume Transport (HVT) Applied Research Program managed by DT Global International Development UK LTD (DT Global). The research is being implemented under HVT057 (Transport Decarbonisation Index - <https://transport-links.com/funded-projects/transport-decarbonisation-index-tdi>) whose lead research supplier is the Partnership on Sustainable, Low Carbon Transport. These profiles are designed to complement the main report of the research entitled *Bridging the Gap: A Deep Dive into NDCs and Transport Policy Landscapes in Low- and Middle-Income Asian Economies*. While intended as supplementary materials, they also function as standalone knowledge products. All the related knowledge products will be made available through <https://asiantransportoutlook.com/analytical-outputs/ndc-analysis> and <https://asiantransportoutlook.com/analytical-outputs/transportclimateprofiles/>

The Asian Transport Outlook (ATO) is an initiative that aims at strengthening the knowledge base on transport in the Asia-Pacific region. It supports the planning and delivery of transport-related assistance in Asia, supports wider transport policy making, and helps track global and regional processes related to sustainable development. For example, ATO is the monitoring mechanism for the Aichi 2030 Declaration on Environmentally Sustainable Transport – Making Transport in Asia Sustainable (2021-2030) which was adopted by more than 20 countries in Asia-Pacific through the High Level Environmentally Sustainable Transport Forum (EST) that is organized by the United Nations Centre for Regional Development (UNCRD)-DSDG/UN DESA, along with its partners. For more information, visit asiantransportoutlook.com

This profile is structured into two main sections: Data Insights and Policy Insights. Under “Data Insights”, individual components at the intersection of transport and climate change are detailed. Similarly, the “Policy Insights” section outlines various policy documents, measures, and targets.

Disclaimer: The ATO project collects, collates, organizes, and presents transport-relevant data from publicly available official sources and reputable, peer-reviewed secondary sources. Users should be aware that: the ATO does not generate any primary data; the source data may contain inconsistencies or gaps; despite rigorous quality control measures, the ATO cannot guarantee the absolute accuracy, completeness, or suitability of the data for specific purposes.

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Transport and Climate Profile: Tajikistan

2024

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Contents

Data Insights

- I Transport and Climate Change
- II Transport Energy Consumption
- III Adaptation and Resilience
- IV Other Externalities
- V Vehicle Fleet
- VI Urban Transport
- VII Transport Investments

Policy Insights

- VIII Transport and Climate Policy Documents
- IX Representation of Transport in Key Climate Policy Documents
- X Distribution of Transport and Climate Policy Measures in Policy Documents
- XI National Policy Priorities on Transport
- XII Direct GHG Targets
- XIII Indirect Transport Climate Change Targets
- XIV Transport and Climate Policy Measures

Executive Summary

Tajikistan, a lower-middle-income country in Central Asia, faces unique challenges and opportunities in its transport sector concerning climate change. This comprehensive narrative delves into the data trends, policy landscape, and potential pathways for sustainable transport in Tajikistan.

CO2 Emissions: A Growing Concern

- Tajikistan's transport sector significantly contributes to climate change, with CO2 emissions reaching 1.9 million tonnes in 2023, representing 21% of the country's total emissions. While the annual growth rate has slowed to 5% since the adoption of the Paris Agreement and SDGs, it remains concerning compared to the Asia-Pacific average of 1%. Road transport dominates emissions, accounting for 96% in 2022 and contributing 37% to the total economy-wide emissions. Tajikistan's transport sector CO2 emissions intensity with GDP is also higher than the Asia-Pacific average and its peers in Low and lower-middle-income and Central and West Asia.

Energy Consumption: A Reliance on Fossil Fuels

- Tajikistan's transport sector heavily relies on fossil fuels, mainly oil products. The road sector consumes 100% of its energy from oil, with minimal use of biofuels or electricity. This dependence contributes to high energy intensity and carbon emissions.

Adaptation and Resilience: Vulnerability to Climate Hazards

- Adaptation and resilience are crucial for Tajikistan as it faces an estimated average annual loss of 14.54 million USD to its transport infrastructure due to various hazards. This figure represents 0.03% of the nation's GDP and is primarily distributed across roads (91%), with lesser impacts on rail (8%) and airports (1%). While this amount seems significant, it's important to consider the broader context: the Central and West Asia subregion, of which Tajikistan is a part, is projected to face a far more significant average annual loss of 3,021 million USD to transport infrastructure, equivalent to 0.01% of the subregion's GDP. Tajikistan's vulnerability is underscored by its 203rd ranking out of 208 countries in terms of national road vulnerability, highlighting the need for investments in resilience and redundancy.

Vehicle Fleet: Limited Electric Mobility

- In 2022, the Asia-Pacific region averaged 577 vehicles per thousand population, with the Central and West Asia subregion having 128. Tajikistan's vehicle fleet composition is unknown, but between 2015 and 2023, the country significantly increased bus imports, including a small percentage of electric buses. From 2017 to 2023, Tajikistan imported \$52.6 million worth of electric vehicles, primarily electric LDVs. The share of electric vehicle imports in Tajikistan rose from 0% in 2017 to 13.4% in 2023, while the Central and West Asia subregion reached a 13.1% share. Tajikistan's E-mobility Readiness Index score is 59/100 in 2024, reflecting its progress in adopting electric vehicles.

Urban Transport: Challenges in Public Transport

- Tajikistan's urban transport system faces challenges in providing convenient public transport access. A survey across 8 cities reveals that only a small percentage of the population enjoys convenient access. The absence of modern transit systems like BRT or LRT further hinders sustainable urban mobility.

Investments: Focus on Roads

- Most investments in Tajikistan's transport sector have been directed towards roads, with minimal allocation for other modes like rail or airports. Public-private partnerships have played a limited role in financing transport projects.

Policy: Addressing Gaps and Priorities

- Transport policy alignment with Nationally Determined Contributions (NDCs) in Tajikistan presents a mixed picture. While 13 non-climate transport documents contain measures with climate implications, the latest NDC lacks specific transport GHG emissions targets. This disconnect highlights a policy gap that could be addressed by incorporating explicit transport emissions reduction targets in future NDCs. The broader transport policy landscape includes targets like road crash fatalities and emphasizes areas like aviation, public transport, and infrastructure. However, only a few of these measures align with Tajikistan's NDC or Long-Term Strategy (LTS), indicating a need for greater coherence between national climate goals and sectoral policies. Additionally, the emphasis on mitigation over adaptation reveals a potential vulnerability to the impacts of climate change on the transport sector. Key documents like the National Transport Development Program and the National Development Strategy offer opportunities to integrate climate considerations more comprehensively into transport planning and investment decisions.

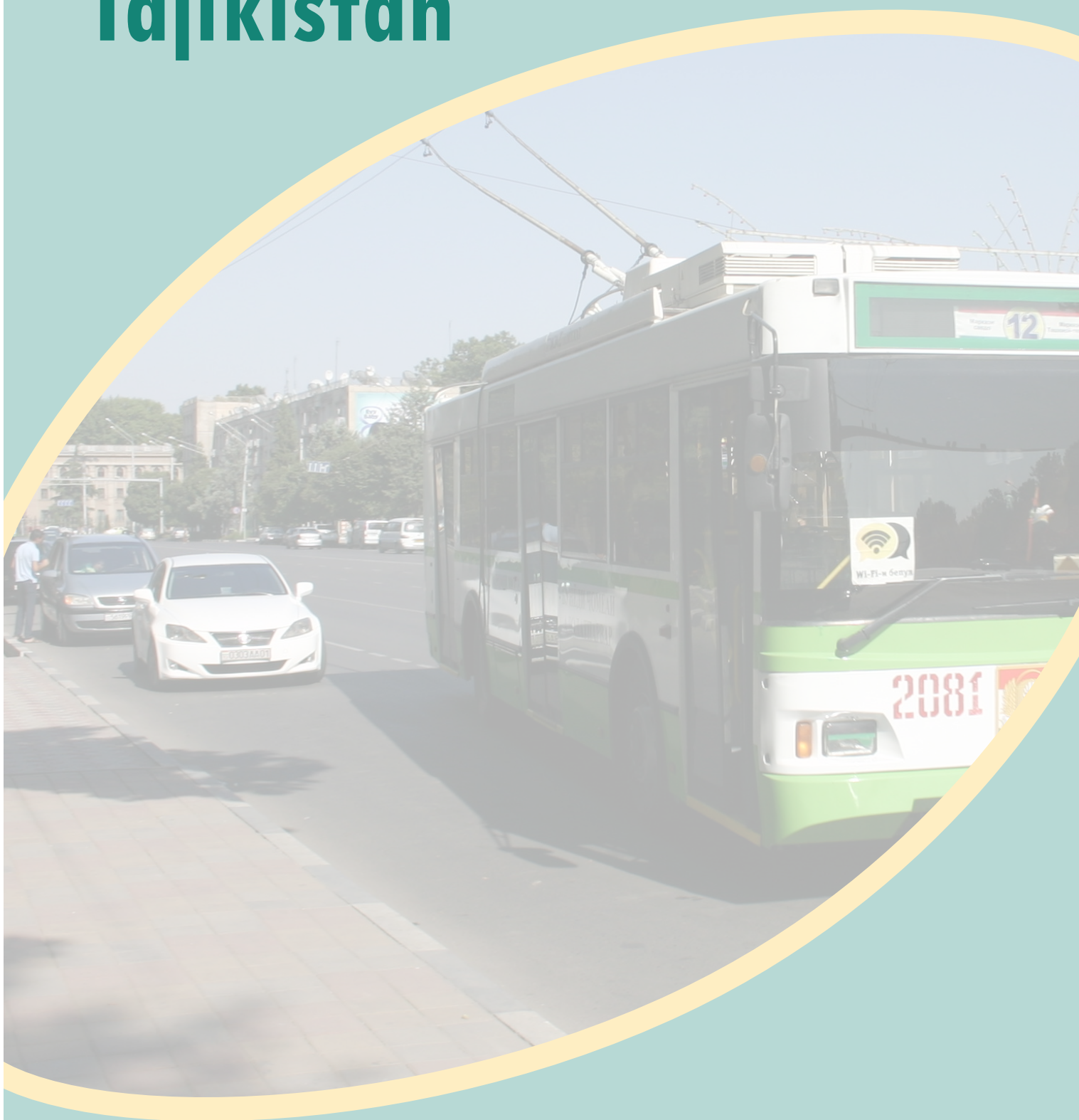
Opportunities:

Tajikistan can leverage opportunities to enhance sustainable transport. These include:

- **Promoting Electric Mobility:** Investing in charging infrastructure, incentivizing electric vehicle adoption, and developing supportive policies can accelerate the transition to electric mobility.
- **Enhancing Public Transport:** Expanding and modernizing public transport systems, particularly in urban areas, can reduce reliance on private vehicles and improve accessibility.
- **Integrating Climate Resilience:** Incorporating climate resilience considerations into transport infrastructure planning and investments can safeguard against future climate hazards.
- **Exploring Renewable Energy:** Diversifying energy sources in the transport sector by incorporating renewable energy like solar or wind power can reduce carbon emissions.
- **Strengthening Policy Alignment:** Aligning transport policies with the NDC and LTS, prioritizing adaptation and resilience measures, and integrating climate considerations into broader transport strategies can foster a sustainable transport system.

Tajikistan's transport sector is at a crucial juncture. By addressing the challenges and seizing the opportunities, the country can transition towards a sustainable, resilient, and low-carbon transport system contributing to its climate goals and development aspirations.

Data Insights Tajikistan



Tajikistan

Transport and Climate Profile

Population (2024)
10.3 million

Urban population
29%

Below 18 y.o.
43%

Population density
73 persons per sqkm

Rural population
71%

Above 60 y.o.
7%

Subregion
(1) **Central and West Asia**

Gross domestic product
(1) (GDP PPP, 2023)
51.55 billion USD

(1) Domestic consumption per capita, tonnes (2024)
4.5 tonnes

(1,2) *Domestic consumption is the total amount of materials directly used in the economy (used domestic extraction plus imports), minus the materials that are exported.*

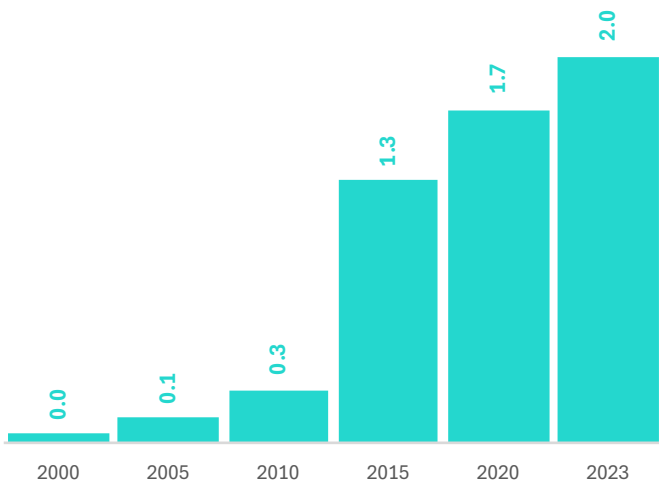
Income class
Low and lower middle income

GDP per capita (PPP, 2023)
5,082 USD (1,2)

(3)

I. Transport and Climate Change

Transport fossil CO2 emissions, million tonnes



In 2010, transport contributed 9% of total fossil CO2 emissions. By 2023, transport contributed 21%.

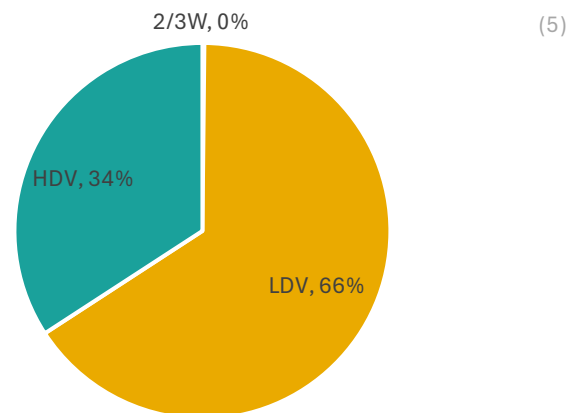
Share of transport CO2 emissions by mode (2022)

(4) Road	99.8%	Rail	0.2%	(4)
Navigation	0.0%	Aviation	0.0%	(4)

Navigation and aviation only includes domestic transportation

Between 2000-2015, road transport contributed 100% in transport fossil CO2 emissions. Between 2016-2022, road transport contributed 100%.

Road transport CO2 emissions (well-to-wheel), share by mode (2022)



Transport CO2 emissions intensity (2023)

38 gCO2 per USD

(2,4)

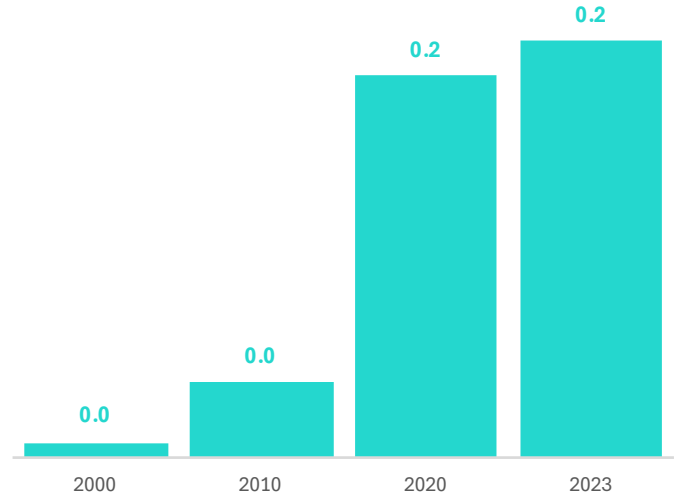
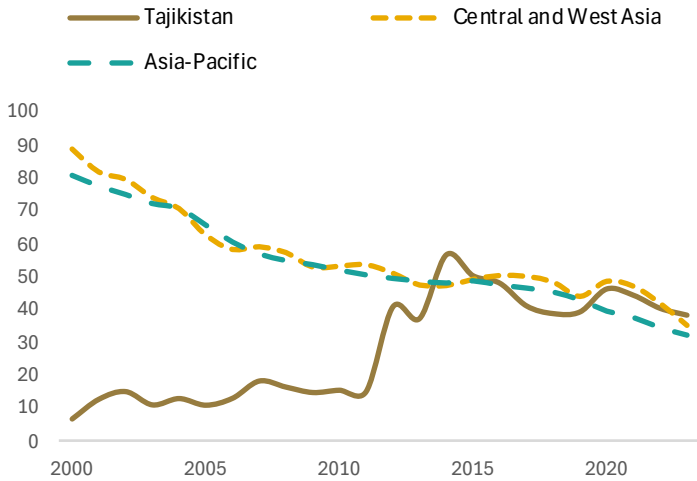
Asia-Pacific average is 32 gCO2 per USD

Transport fossil CO2 emissions per capita, tonnes

(1,4)

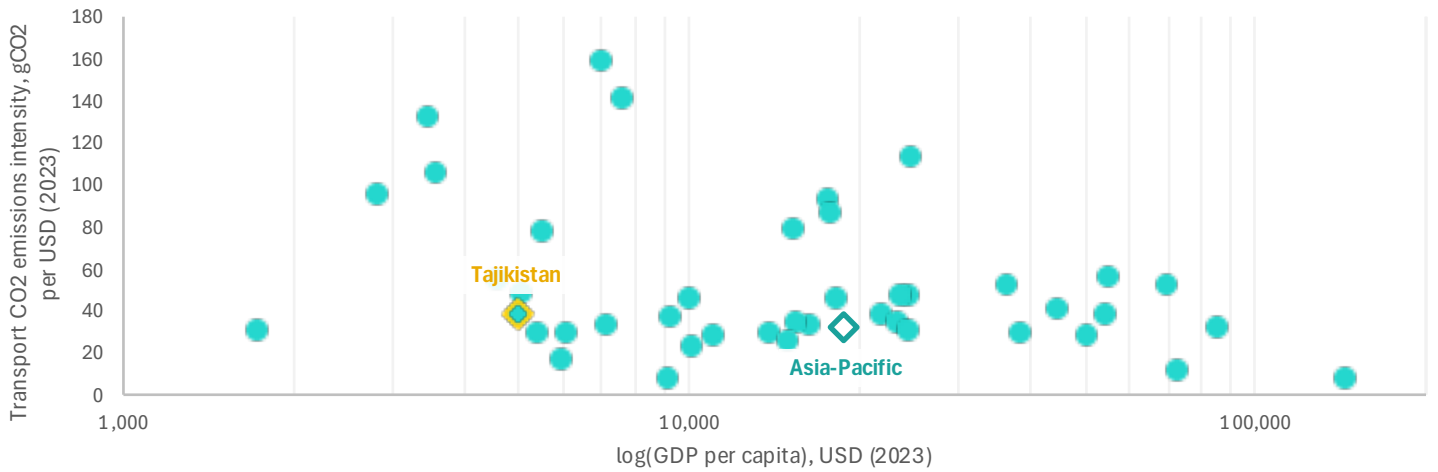
Transport CO2 emissions intensity trend, gCO2 per USD

(2,4)



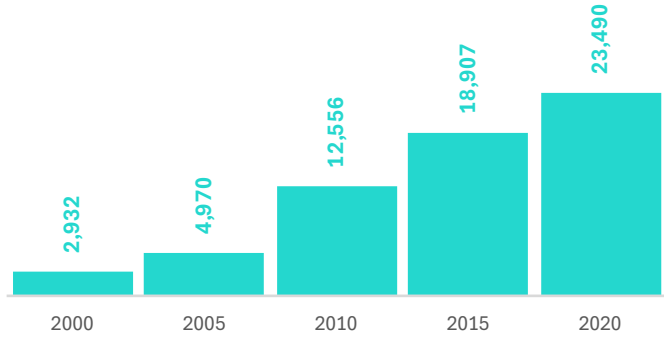
Transport CO2 emissions intensity in Asia-Pacific, gCO2 per USD

(2,4)



II. Transport Energy Consumption

Transport energy consumption, TJ

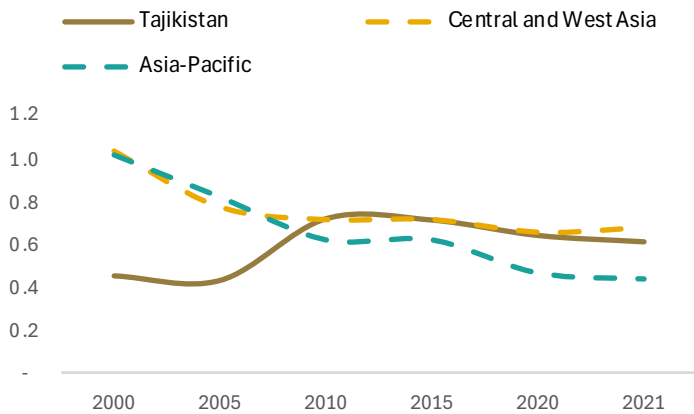


Transport energy intensity (2021)

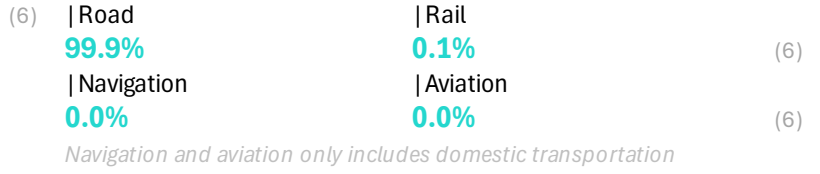
0.6 MJ per USD

Asia-Pacific average is 0.4 MJ per USD

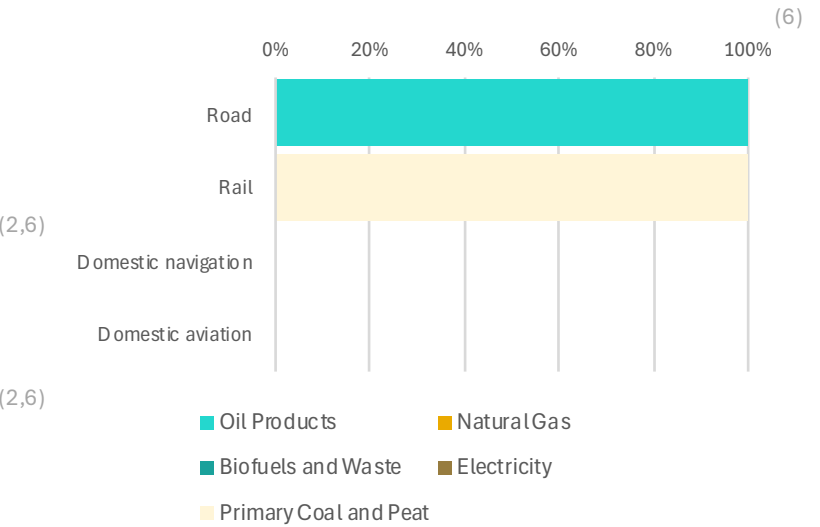
Transport energy intensity trend, MJ per USD



Share of transport energy consumption by mode (2021)



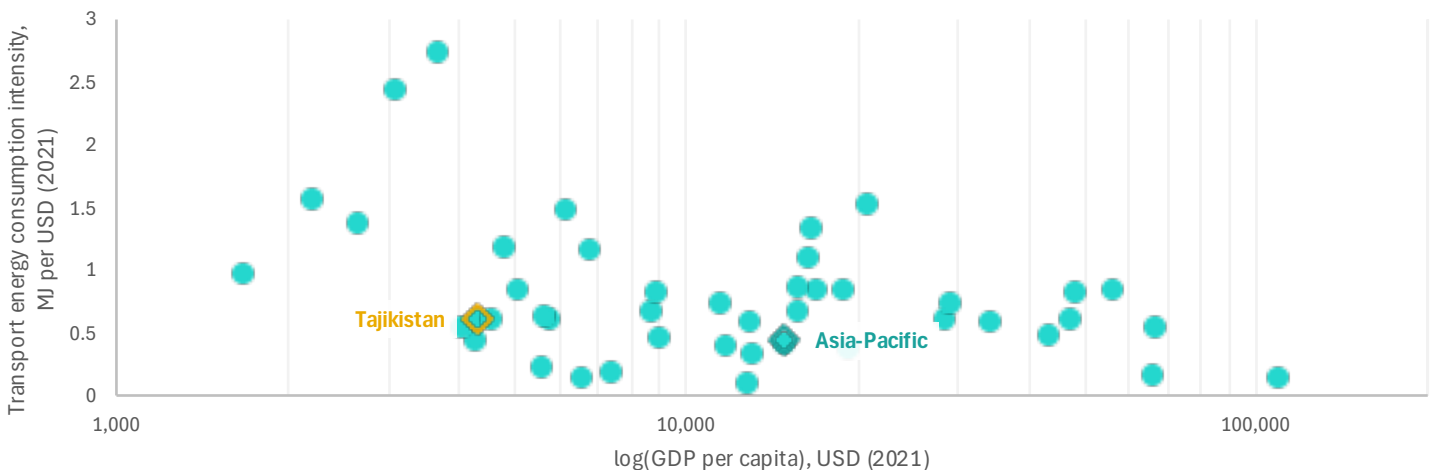
Share of transport energy consumption by source (2021)



Share of transport in renewable energy consumption



Transport energy intensity in Asia-Pacific, MJ per USD

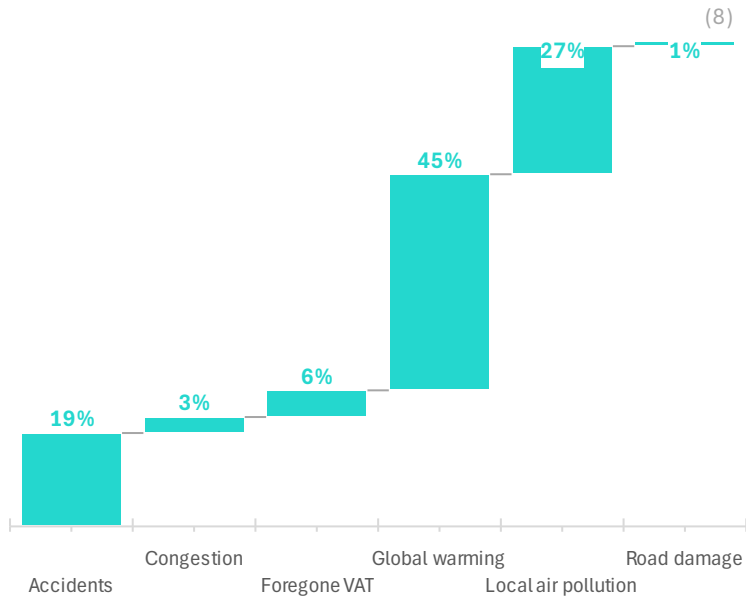


Transport fossil fuel subsidies, cumulative (2010-2022)

None

0.0% of Asia-Pacific total

Estimated externalities due to fossil fuel subsidies



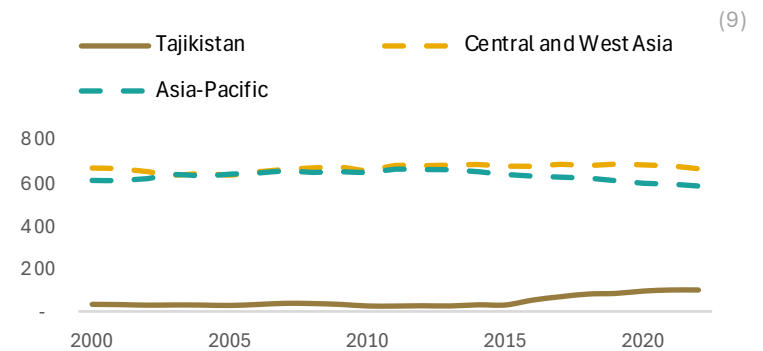
Data includes all sectors and all fuel types

Grid emission factor (2022)

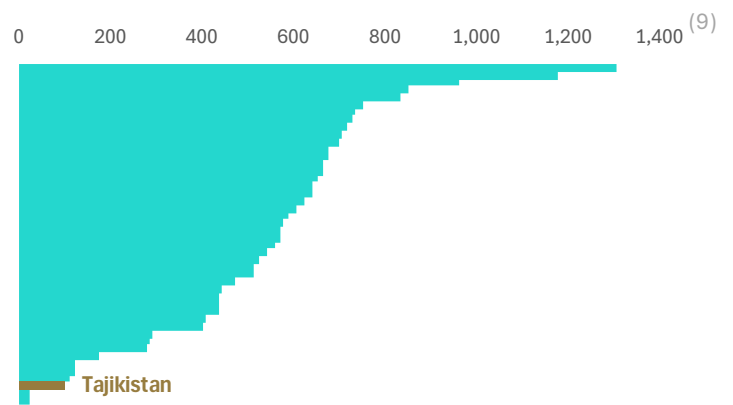
(7) **99 gCO₂ per kWh**

(9)

Grid emission factor trend, gCO₂ per kWh



Grid emission factors in Asia-Pacific, gCO₂ per kWh



III. Adaptation and Resilience

Average annual losses to transport infrastructure due to hazards (2023)

15 million USD

Road	Rail
91%	8%
Ports	Airports
0%	1%

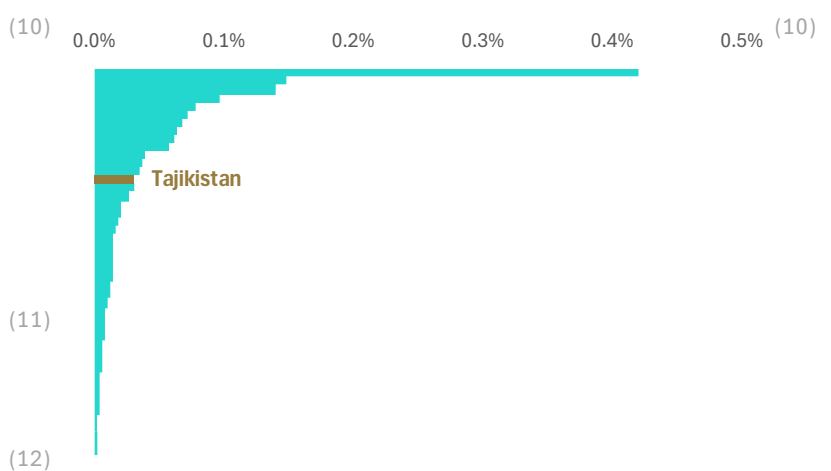
National road vulnerability index ranking (2023)

203rd out of 208 countries

Share of population in low elevated coastal zones (2018)

n.d.

Average annual losses to transport infrastructure due to hazards, as a share of GDP, in Asia-Pacific (2023)

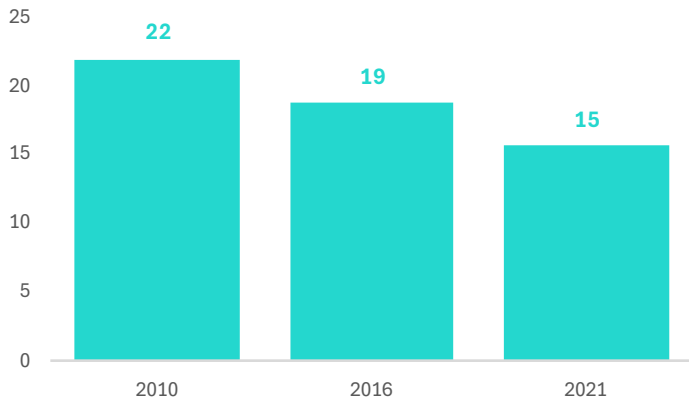


IV. Other Externalities

Road crash fatalities (2021)

1.4 thousand deaths

Road crash fatality rate per 100 thousand population



Asia-Pacific average is 16 fatalities per 100 thousand population

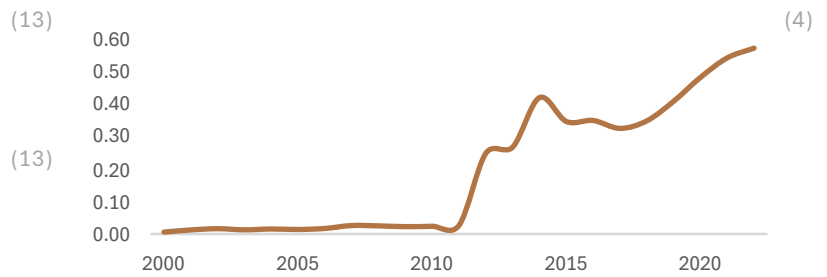
Rural access index (2023)

61%

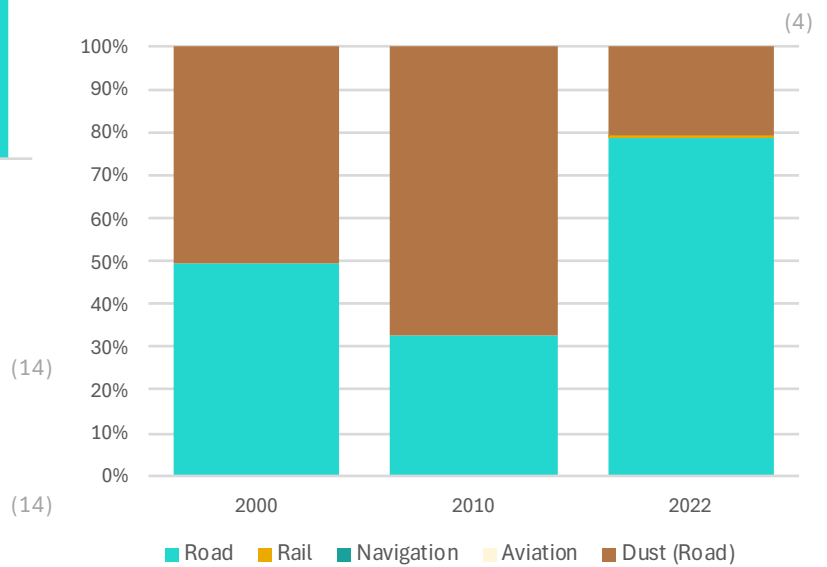
Rural population without access to all-season roads (2023)

2.8 million

Transport PM 2.5 emissions trend, thousand tonnes



Transport PM 2.5 emissions share by source



V. Vehicle Fleet

Road vehicles (2023)

n.d.

Share of vehicles by type

(15)

Road vehicle motorization rate (2023)

n.d.

(1,15)

Road vehicles include 2- and 3-wheelers, LDVs, buses and other informal public transport, trucks, and other unclassified types

Vehicle motorization per thousand population in Asia-Pacific (2000-2022)

Bus import value (2015-2023)

105 million USD

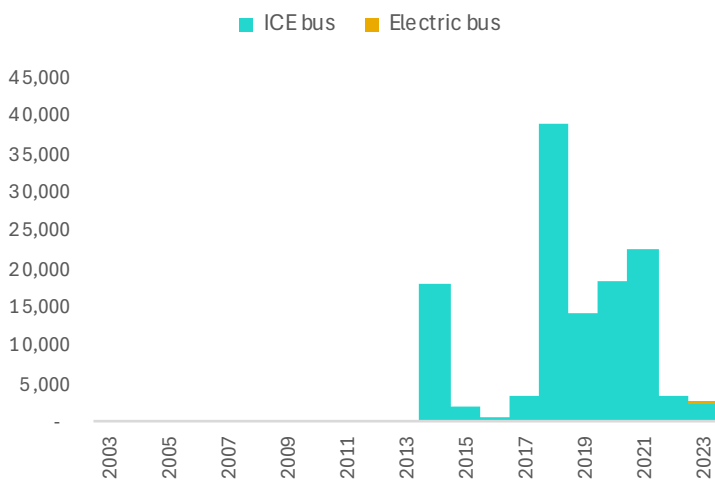
(16)

Bus vehicle production, units

(17)

Bus import value, thousand USD

(16)



E-mobility Readiness Index (2024)

(18)

| Technology & Market

7/25

| Policy

15/25

| Energy

20/25

| Financial

17/25

| Overall

59/100

Electric road vehicle import value (2017-2023)

52.6 million USD

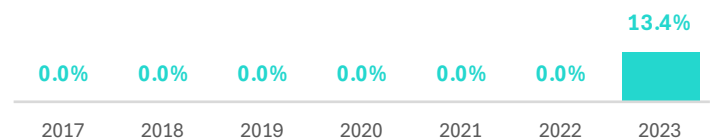
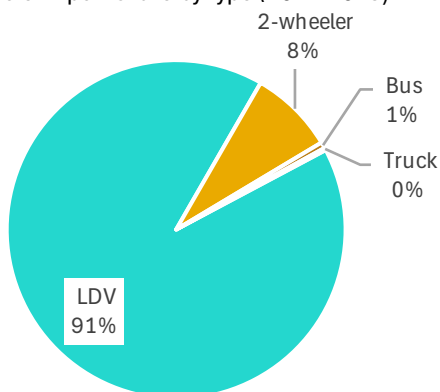
(16)

Electric road vehicle share in total road vehicle import value trend

(16)

Electric road vehicle import share by type (2017-2023)

(16)



VI. Urban Transport

Urban rapid transit length (2021)

BRT	LRT
None	None
Metro	
None	

(19)

(19)

Urban rapid transit ratio in Asia- Pacific, kilometers per million urban population (2021)

(1,19)

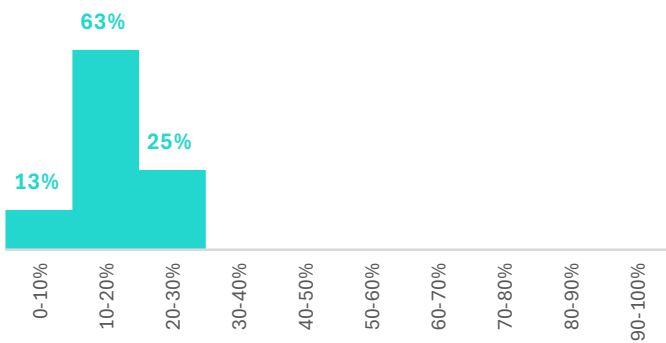
Urban rapid transit ratio (2021)

NA (1,19)

Urban rapid transit ratio, kilometers per million urban population (2000-2021)

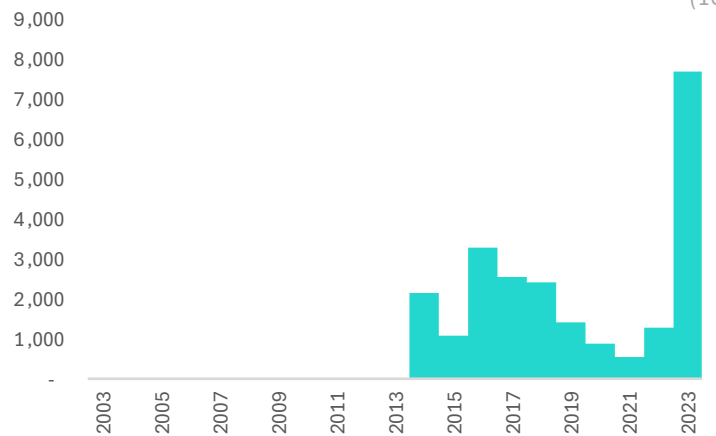
Share of cities by level of access to public transport (out of 8 cities)

(20)



Bicycle import value, thousand USD

(16)



VII. Transport Investments

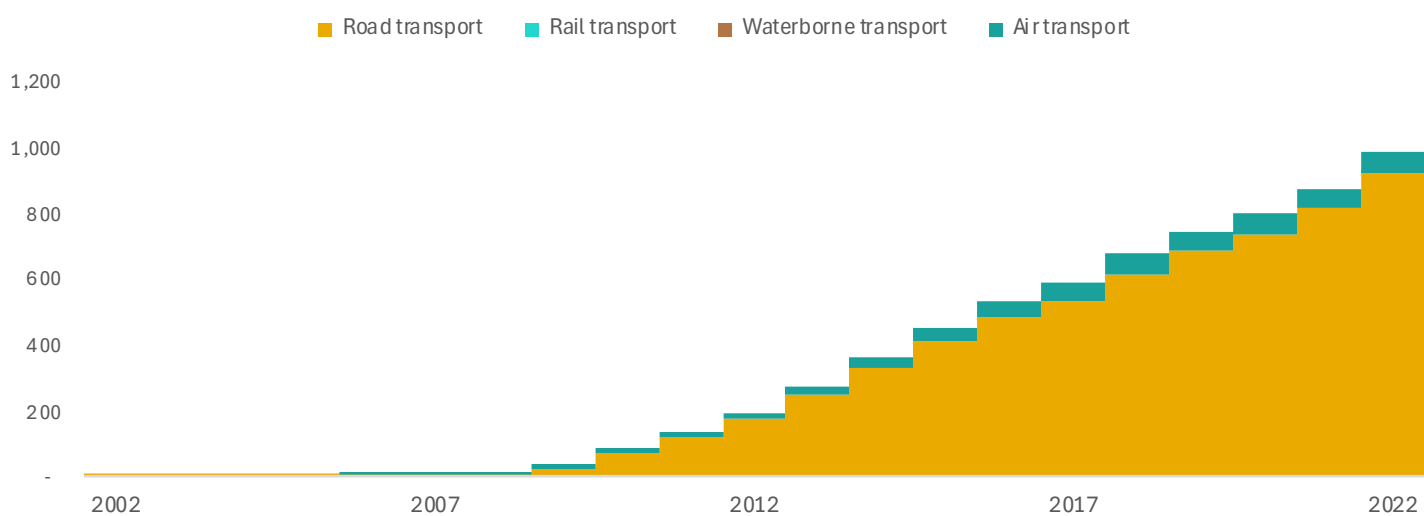
Public-private partnership investments in the transport sector, million USD

(21)

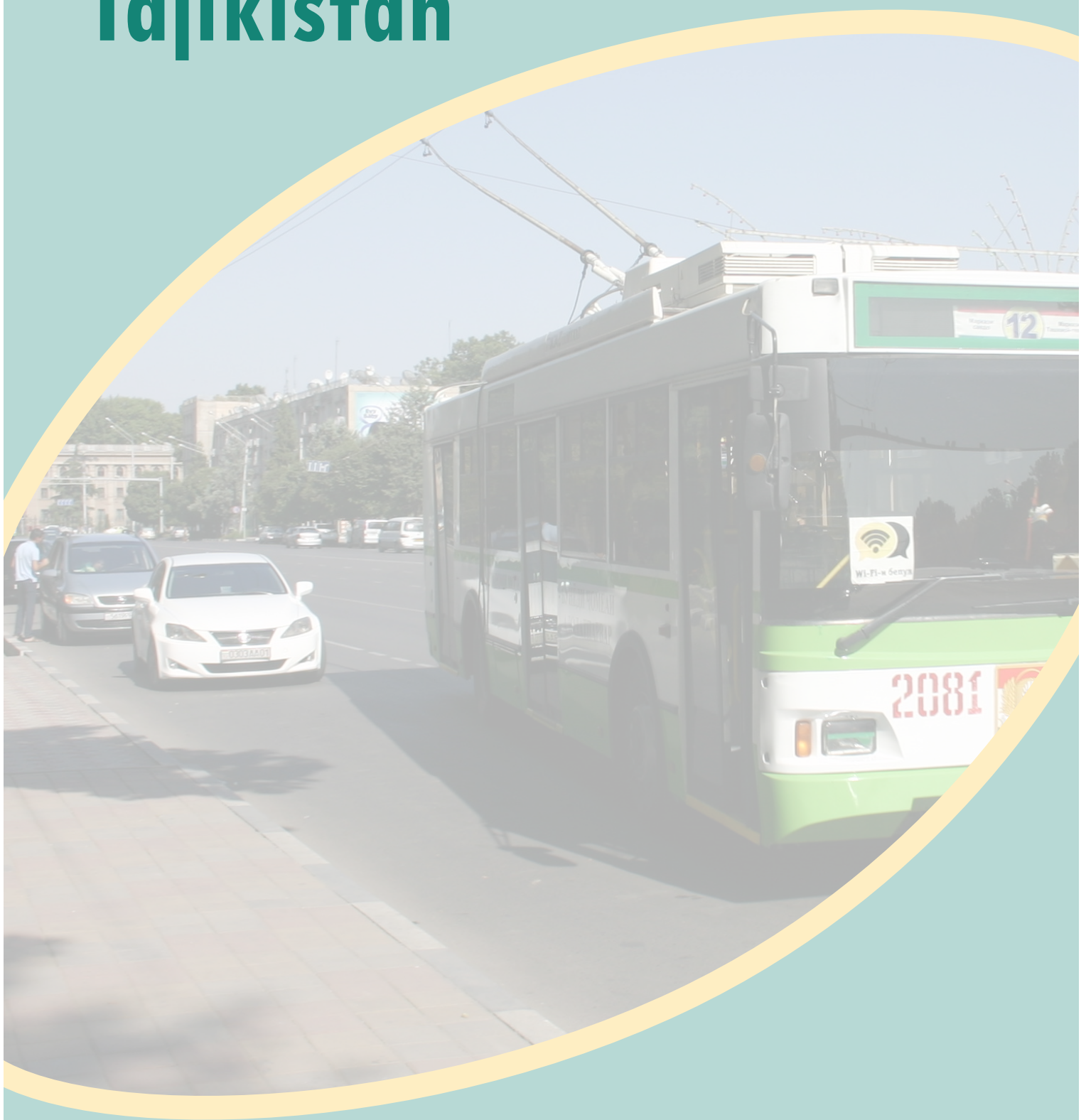
Y-axis labels are missing for this chart.

Official development assistance in the transport sector, million USD

(22)



Policy Insights Tajikistan



VIII. Transport and Climate Policy Documents

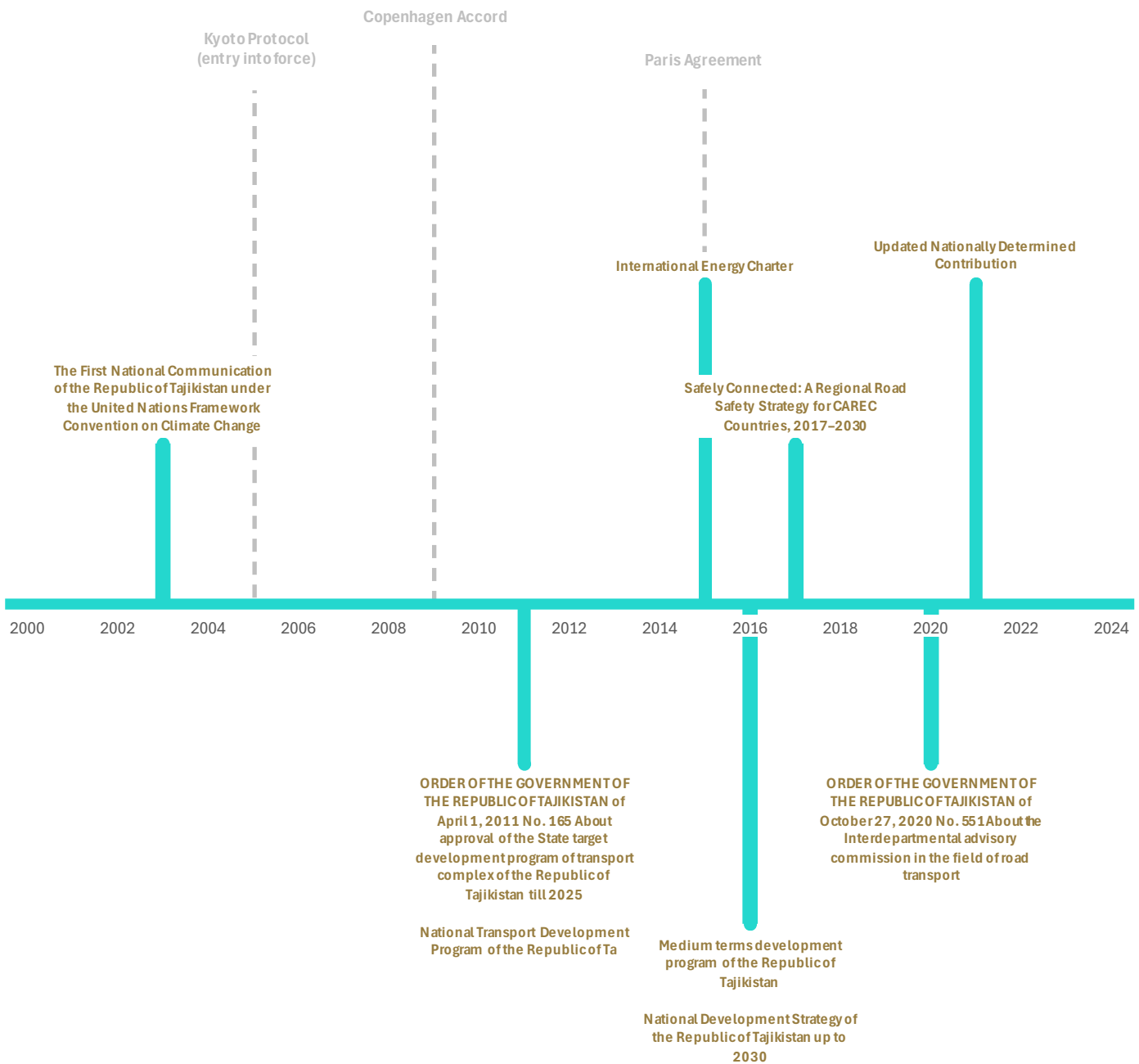
Transport-related policy documents in Tajikistan

Selection made based on the number of climate change mitigation and adaptation policy measures

Nationally Determined Contributions of Tajikistan

2015: First Nationally Determined Contribution

2021: Updated Nationally Determined Contribution



IX. Representation of Transport in Key Climate Policy Documents

Nationally Determined Contributions

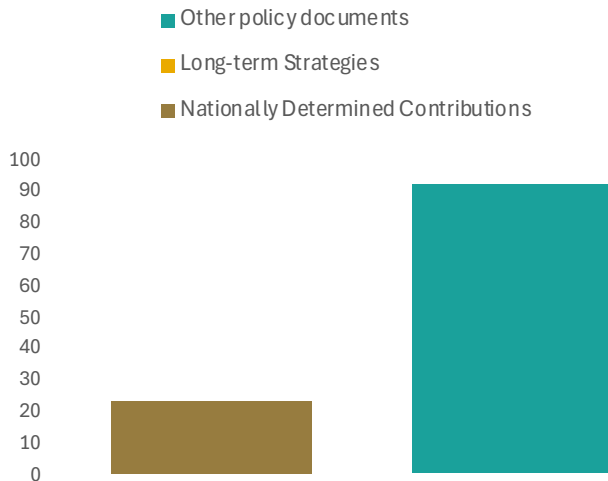
		Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
<i>Updated Nationally Determined Contribution (adopted in 2021)</i>	Mitigation measures	Yes	Yes			Yes
	Mitigation targets					
	Adaptation measures	Yes	Yes	Yes	Yes	Yes
	Adaptation targets					

Long-term Strategies

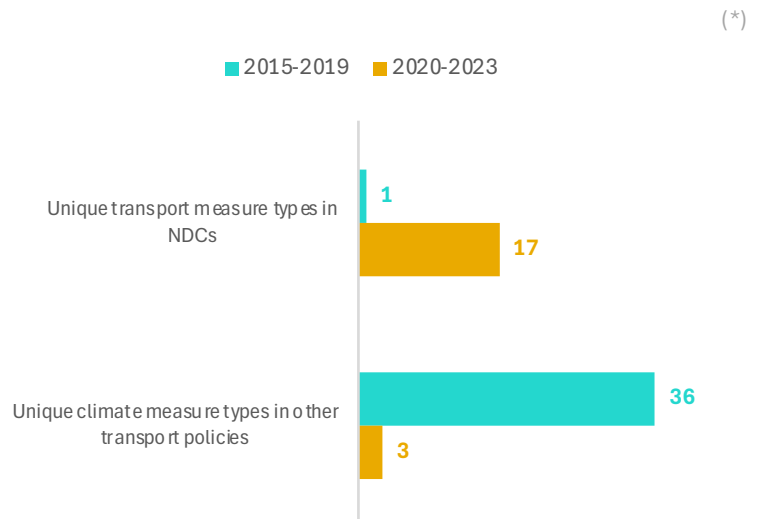
		Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
<i>None</i>	Mitigation measures					
	Mitigation targets					
	Adaptation measures					
	Adaptation targets					

X. Distribution of Transport and Climate Policy Measures in Policy Documents

Number of policy measures by source

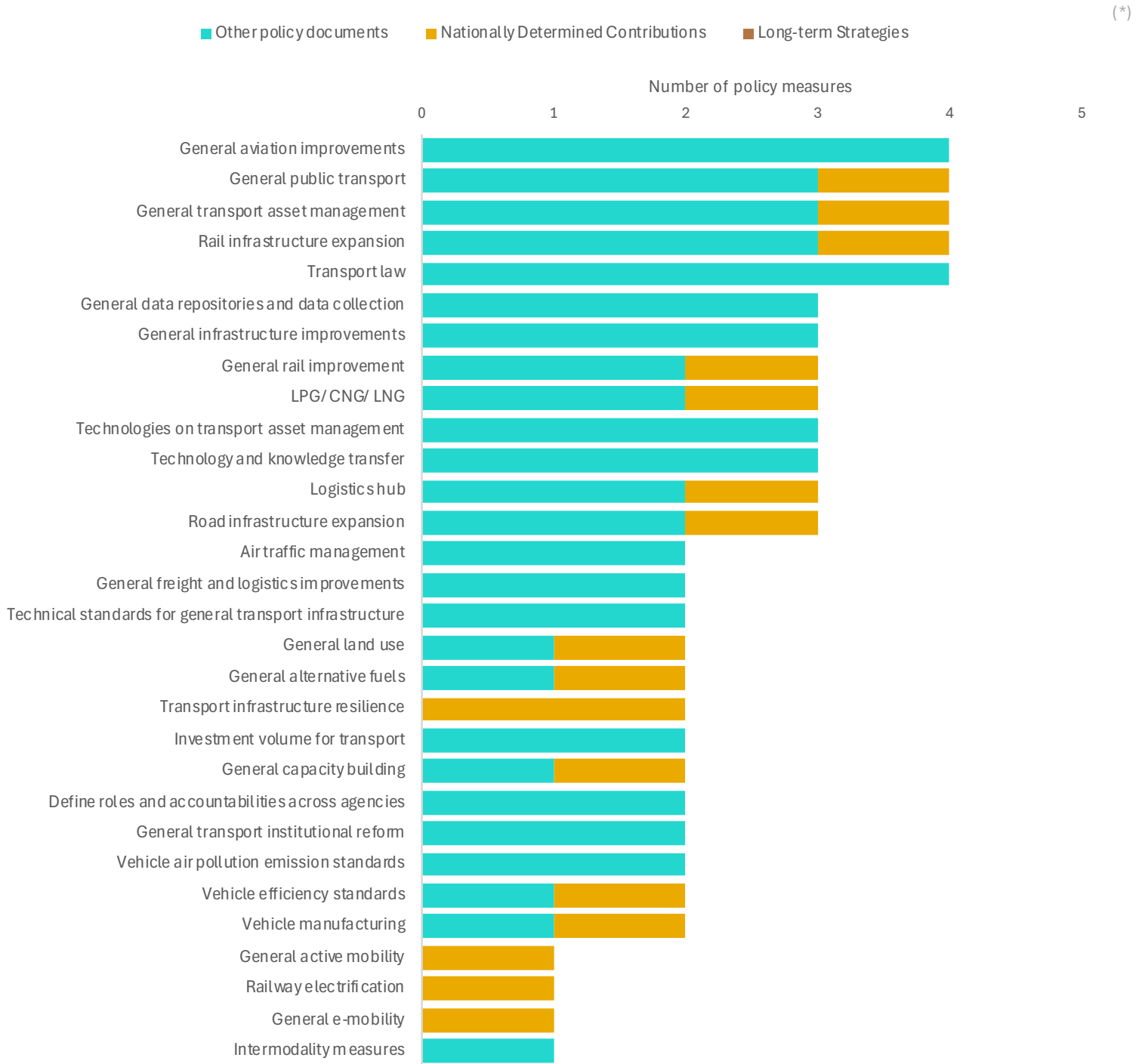


Integration of climate ambition, unique number of policy measures in (*) NDCs and other transport policies

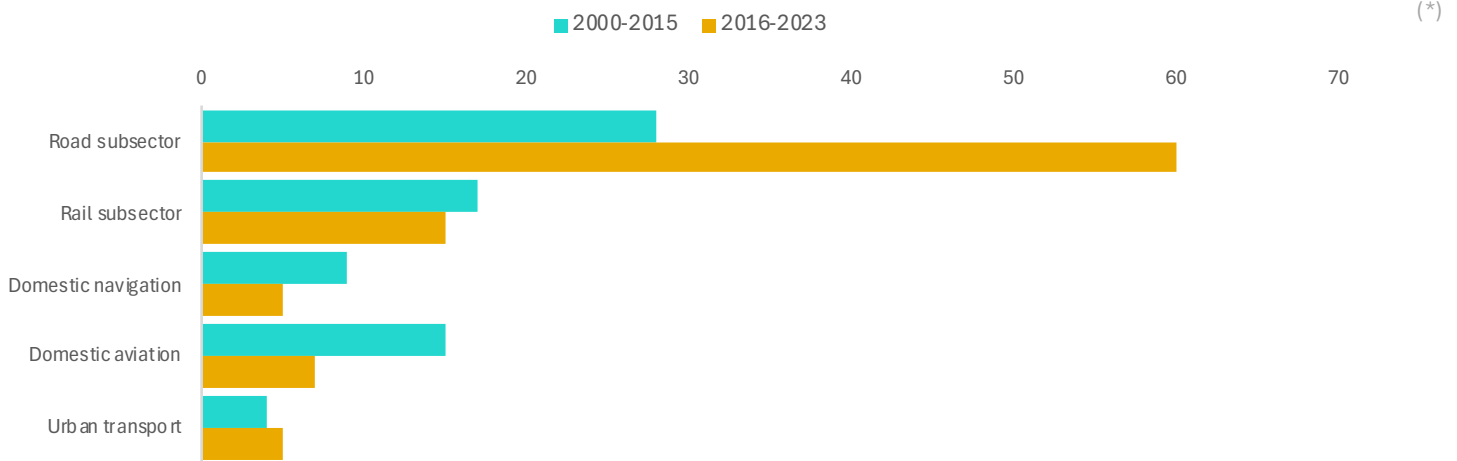


XI. National Policy Priorities on Transport

Priority policy measures on climate change mitigation and adaptation in transport (top 30)



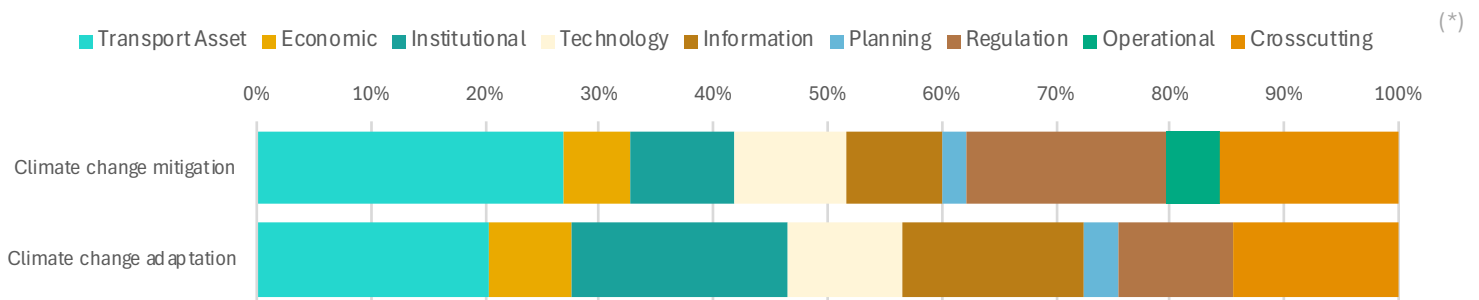
Number of climate change policy measures by subsectors



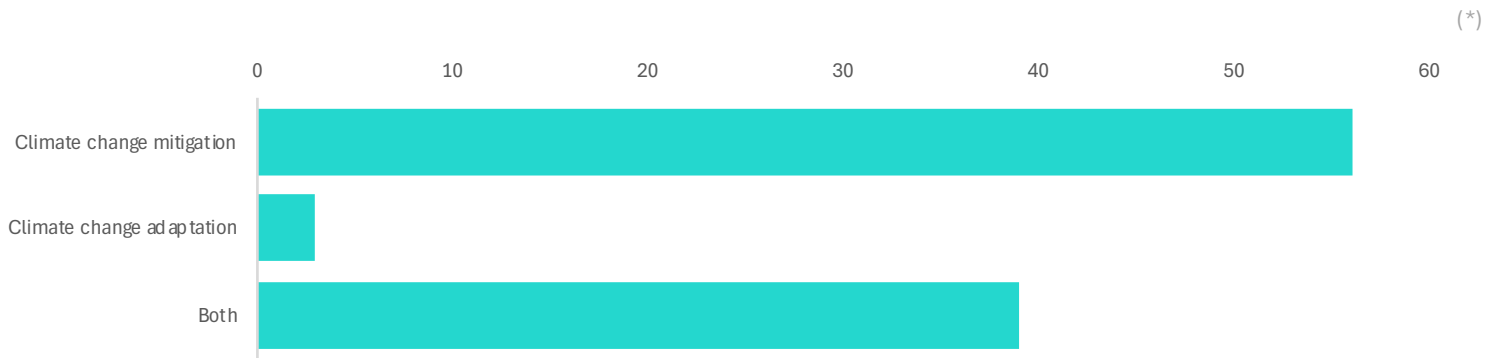
Number of climate change policy measures by passenger vs. freight



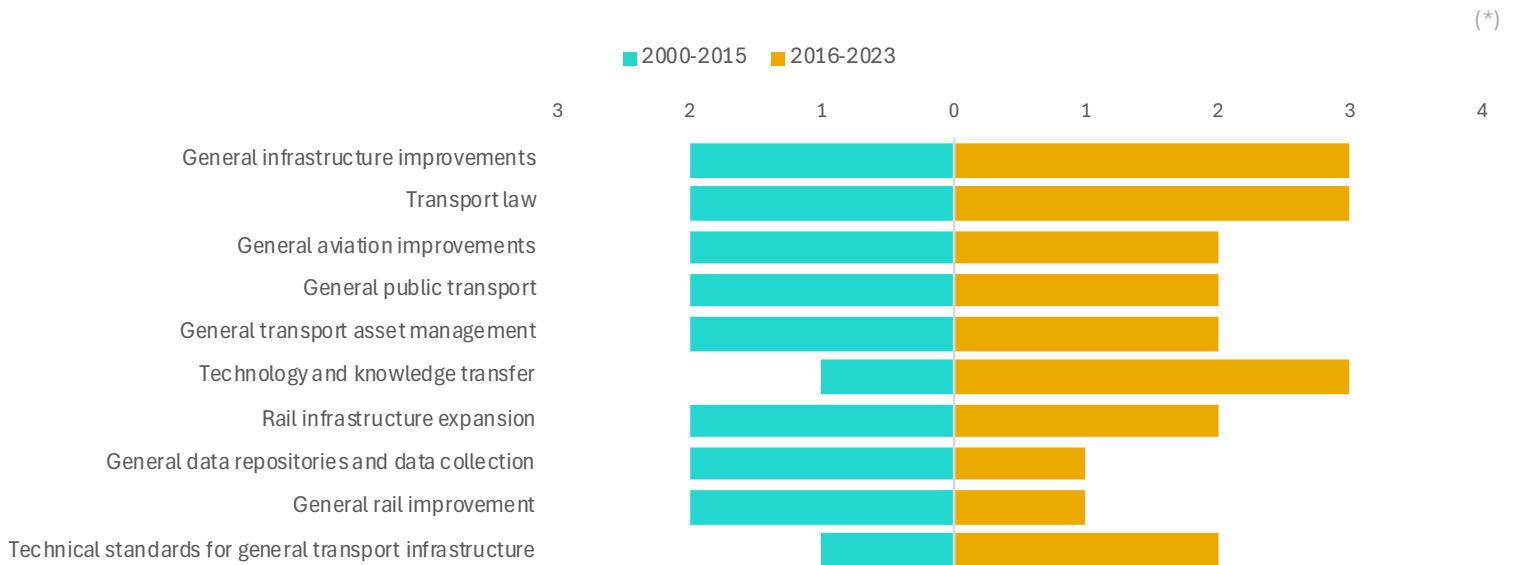
Transport-related climate change policy measures by framework



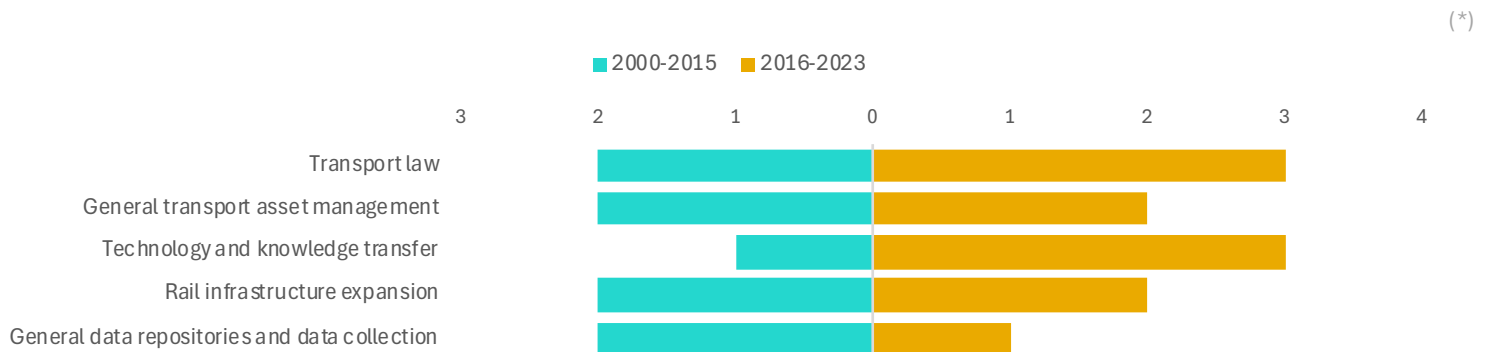
Number of climate change mitigation vs. climate change adaptation policy measures



Climate change mitigation top 10 typology, number of policy measures



Climate change adaptation top 5 typology, number of policy measures



XII. Direct GHG Targets

This table contains transport-relevant (e.g. economy-wide; sector-specific) GHG emissions targets as explicitly mentioned in the policy documents of Tajikistan

Document	Year published	Target	Target year
Economy-wide emissions			
Net zero, carbon neutrality, and other long-term climate action			
Transport GHG emission			

XIII. Indirect Transport Climate Change Targets

This table shows non-GHG targets as specified in the policy documents in Tajikistan which indirectly benefit climate change mitigation and adaptation in the transport sector

Document	Year published	Target	Target year
Target - Road crash fatalities			
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	the overall target of the CAREC road safety strategy would be to reduce the number of fatalities on CAREC road corridors by 50% in 2030 as compared with the 2010 base level	2030

XIV. Transport and Climate Policy Measures

This table lists the policy measures that relate to climate change mitigation and adaptation in the transport sector that had been identified in the transport policy documents of Tajikistan

Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
Biofuels							
Updated Nationally Determined Contribution	2021	biofuel					
Climate-resilient design standards							
Updated Nationally Determined Contribution	2021	Adoption codes and standards for resilience • improving the protection and long-term maintenance of transport infrastructure	x				
Energy efficient vehicle purchase incentives							
Updated Nationally Determined Contribution	2021	promoting the introduction of incentives and regulations for fuel-efficient vehicles	x				
General active mobility							
Updated Nationally Determined Contribution	2021	• encouraging the transition to urban transport: urban public transport, nonmotorized (bicycles, transport skateboards, scooters, etc.) creating condition for pedestrians	x				x
General alternative fuels							
Updated Nationally Determined Contribution	2021	translation transport sector from non-eco-friendly fuels to others more environmentally friendly fuels					
The First National Communication of the Republic of Tajikistan under the United Nations Framework Convention on Climate Change	2003	using environmentally safer fuels and alternative transport					
General capacity building							
Updated Nationally Determined Contribution	2021	increasing capacities (the State Target Program for the Development of the Transport Complex Republic of Tajikistan until 2025)					
Medium terms development program of the Republic of Tajikistan	2016	training of specialists in the field of road construction					
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Provide training for those responsible for management and coordination. Provide training for those responsible for the management of data systems. Provide training to highway engineers to support implementation of revised design standards for CAREC highways at the national level in each member country. Ensure that the skills of those maintaining and testing vehicles are at a level that maximizes the safety of vehicles on roads in CAREC countries.	x				
General e-mobility							
Updated Nationally Determined Contribution	2021	conversion of vehicles to cleaner and environmentally friendly fuels hybrid vehicles powered by gasoline and electricity	x				

XIV. Transport and Climate Policy Measures

This table lists the policy measures that relate to climate change mitigation and adaptation in the transport sector that had been identified in the transport policy documents of Tajikistan

Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
General land use							
Updated Nationally Determined Contribution	2021	integration of transport and urban planning multi-purpose land use, pedestrian communities, mixed and combined transportation	x	x			x
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	removal of transit highways and roads with cargo movement from living areas	x				
General public transport							
Updated Nationally Determined Contribution	2021	• encouraging the transition to urban transport: urban public transport, nonmotorized (bicycles, transport skateboards, scooters, etc.)	x	x			x
Medium terms development program of the Republic of Tajikistan	2016	development of a package of actions and requirements for the formation of a barrierfree living environment within the framework of urban planning projects and the development of public transport	x	x			x
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	acquisition of buses and trolleybuses for the cities of Dushanbe and the regional centers	x				x
THE LAW OF REPUBLIC TAJIKISTAN "ABOUT TRANSPORT"	2000	Passenger has right: - provezti together free of charge the children at the age of till 5 years old, without the right of granting of to him separate place on aerial, railway and inner aqueous transport, on inter-town buses, as well as on urban and suburban transport, except taxi; - to acquire tickets on children at the age of from 5 till 12 years old with the payment 50 per cent of the value of ticket.	x	x			x
General rail improvement							
Updated Nationally Determined Contribution	2021	improvement of existing or construction of new railway lines		x			
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	freight cars will be completely updated; locomotive depots will be modernized (updated)		x			

XIV. Transport and Climate Policy Measures

This table lists the policy measures that relate to climate change mitigation and adaptation in the transport sector that had been identified in the transport policy documents of Tajikistan

Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	seven railway road locomotives will be acquired; - goods wagons will be acquired and recovered		x			
General transport asset management							
Updated Nationally Determined Contribution	2021	improving road surfaces (the State Target Program for the Development of the Transport Complex Republic of Tajikistan until 2025)	x				
Medium terms development program of the Republic of Tajikistan	2016	ensuring year-round transport connections between cities and regions of the country through the reconstruction of roads, construction of bypass roads, construction of roads and railway sections	x				
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	work will continue to replace sleepers and rail tracks, taking into account the renovation 10 bridges will be reconstructed Reconstruction of local airports for the use of small aircraft will also begin bridges will be rehabilitated for a total of \$5.5 million	x	x		x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	timely replacement of cross ties and on this basis ensuring safe train service replacement of all worn-out rails, arrows and use of rails of R-65 with the long-lasting term of use; - updating of locomotive fleet and cars; - reconstruction of maintenance departments for the purpose of decrease in the excess expenses connected with use of cars and locomotives;		x			
Logistics hub							
Updated Nationally Determined Contribution	2021	providing transfer of freight and/or passenger flows from road to rail transport	x	x			
Medium terms development program of the Republic of Tajikistan	2016	bringing all transport facilities, including logistics centers, into compliance with the requirements of international standards in order to increase the volume of transportation of goods and passengers	x	x	x	x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	During 2012-2014 the construction of border terminals is planned	x	x	x	x	
LPG/ CNG/ LNG							
Updated Nationally Determined Contribution	2021	liquefied gas					

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	transfer of some vehicles to environmentally friendly types of motor vehicles fuels, primarily natural gas	x				
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	transfer of part of motor transport into environmentally friendly types of motor fuel, first of all on natural gas	x				
Measures to improve rural-urban connectivity							
Updated Nationally Determined Contribution	2021	access of the rural population to climatic sustainable road system that takes into account social, age and gender aspects	x				
Rail infrastructure expansion							
Updated Nationally Determined Contribution	2021	increase transport infrastructure (roads, bridges, overpasses, railways, highways)		x			
Medium terms development program of the Republic of Tajikistan	2016	ensuring year-round transport connections between cities and regions of the country through the reconstruction of roads, construction of bypass roads, construction of roads and railway sections		x			
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	construction of the North-South railway will begin		x			
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	the construction of the site Vahdat-Yavan for future railroad Dushanbe-Qurghonteppa will proceed		x			
Railway electrification							
Updated Nationally Determined Contribution	2021	rail line electrification		x			
Road infrastructure expansion							
Updated Nationally Determined Contribution	2021	increase transport infrastructure (roads, bridges, overpasses, railways, highways) construction of bypass roads in populated areas (the State Target Program for the Development of the Transport Complex Republic of Tajikistan until 2025)	x				
Medium terms development program of the Republic of Tajikistan	2016	ensuring year-round transport connections between cities and regions of the country through the reconstruction of roads, construction of bypass roads, construction of roads and railway sections	x				

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	development of the highway network and improvement of the quality of their maintenance	x				
Technical standards for road infrastructure							
Updated Nationally Determined Contribution	2021	updating national building codes for bridge construction	x				
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Review existing design standards for CAREC highways in the light of international good practice Develop and implement a system to improve design standards for CAREC highways to conform with internationally accepted standards of road safety engineering.	x				
Transport infrastructure resilience							
First Nationally Determined Contribution	2015	transport and residential infrastructure - enhance resilience	x	x	x	x	
Updated Nationally Determined Contribution	2021	•transport - sustainable urban infrastructure to reduce exposure to climate risks; climate resilience	x	x	x	x	x
Vehicle efficiency standards							
Updated Nationally Determined Contribution	2021	encouraging the use of highperformance vehicles fuel appropriate efficiency world standards	x				
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Development and implementation of measures to reduce the level of industrial and transport emissions	x				
Vehicle manufacturing							
Updated Nationally Determined Contribution	2021	creation of capacities for the production of cars, and	x				
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	application of new types of mixes and connections in conditioners and refrigerated cars instead of freon	x				
Vehicle scrappage scheme							
Updated Nationally Determined Contribution	2021	creation of capacities for collecting and processing old items car recycling	x				
Access restriction by corridor/ road							
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	removal of transit highways and roads with freight traffic from residential areas	x				
Air traffic management							

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	modernizing the air traffic management system				x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	retrofitting of the park of air vehicles by airplanes of new generation and upgrade of system of air traffic management				x	

Define roles and accountabilities across agencies

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of May 6, 2011 No. 250 About the Ministry of transport of the Republic of Tajikistan	2011	the Ministry in the established field of activity carries out the following tasks: - development and realization of single state policy in the industry of transport and road economy directed to satisfaction of demand of the population and the needs of economy for transportations and transport services; - management, coordination, the state control and regulation of activities in transport complex; - creation of conditions for safe functioning of industry of transport; - plan development of development of industry of transport in the Republic of Tajikistan and their realization on the basis of the state, national, interstate and industry target programs; - coordination of joint activities with the ministries, departments and other state bodies, and also local executive bodies of the government in case of realization of transport policy and forming of single transport space; - planning and monitoring of the programs promoting competitive and effective use of resources and increase in overall performance of transport systems; - assistance in carrying out institutional and structural transformations; - realization of policy of the Government of the Republic of Tajikistan in the field of investing, tariff, scientific and technical activities in transport industries; - establishment and ensuring compliance with regulations and technical requirements on safety and consumer protection, environmental protection and the natural resources conforming to standards of advanced methods of management; - preparation of offers on forming and enhancement of the legal basis of functioning of transport industry; - ensuring control over the implementation by the companies, organizations and other organizations of the legislation of the Republic of Tajikistan in industries of transport and road economy, both requirements for safety and ecology in case of operation in vehicles, irrespective of their patterns of ownership; - licensing of activities in transport industries; - analysis of investment requirements of industries of transport, development of the long-term program of the state investments; - assistance to increase in overall performance and competitiveness of the organizations of transport industries, in the international and domestic market of transport services and attraction of foreign investments; - development and ensuring implementation of the state concept of open entry to transport services	x	x	x	x	

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of October 27, 2020 No. 551 About the Interdepartmental advisory commission in the field of road transport	2020	The commission has the following powers: - considers the questions connected with increase in efficiency and enhancement of methods of management for improvement of quality of services of road transport, protection of the rights and interests of haulage contractor, protection of interests of users of motor transportation services and development of the international motor transportations; - participates in realization of complex measures for development of road transport, to expansion of amounts and types of the services rendered by them; - promotes creation of equal conditions in the market of motor transportation services for carriers of various patterns of ownership and to development of healthy competition; - provides consideration of changes and offers on assistance in holding the actions directed to effective realization of state policy in the field of road transport; - requests in accordance with the established procedure from the ministries, departments, committees, local executive bodies of the government, motor transportation associations, legal entities and physical persons information (materials) on the questions which are within the competence of the commission; - invites to the meetings officials of the ministries, departments, committees, local executive bodies of the government, motor transportation associations and carriers, irrespective of the patterns of ownership performing activities in the field of road transport; - creates if necessary the working groups of number of representatives of the ministries, departments, committees, local executive bodies of the government interested the organizations, scientific specialists, for the purpose of the solution of the available problems of waters of public road transport; - introduces in accordance with the established procedure to the Government of the Republic of Tajikistan offers on the questions relating to powers of the Commission.	x	x	x	x	
Employment in transport, communication, and storage							
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Develop transport sector, aimed at creating new jobs					
Fuel quality							
International Energy Charter	2015	encouraging the clean and efficient use of fossil fuels	x				
General aviation improvements							
Medium terms development program of the Republic of Tajikistan	2016	reconstruction and technical equipment of airports				x	
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Preserve and develop a network of local airports, small and medium aviation				x	

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	build a second runway at Dushanbe airport for a total amount of \$40 million re-equipping the aircraft fleet with new generation aircraft				x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	updating of the park of air vehicles and the equipment SUE TadzhiKaeronavigation is also planned. Subsidizing of aviation services in the internal airlines (IA) will be solved on tender basis between all providers of aviation. Contracts will be awarded on the basis of assessment of benefit of declared value in combination with service quality and required subsidies, I predlozhennoit in the request. reconstruction of local airports for use of small aircraft will begin. Use of aircraft in rural and forest farms of the country will extend. retrofitting of the park of air vehicles by airplanes of new generation and upgrade of system of air traffic management				x	
General data repositories and data collection							
Medium terms development program of the Republic of Tajikistan	2016	development and establishment of a procedure for interdepartmental information exchange creating effective database backup schemes in each authority government controlled					
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	creation of a highway information system creation and maintenance of an industry information resource on the state and functioning of the transport complex, necessary for making strategic government decisions in the field of the transport complex	x				
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	The unified information system of assistance to regulation in transport complex of the republic allows to create single information and analytical system of collection, consolidation and data analysis about the current rates, amounts of grants and subsidies, and also availability of transport services to the population	x	x	x	x	
General freight and logistics improvements							
National Development Strategy of the Republic of Tajikistan up to 2030	2016	efficient transport and logistics infrastructure will be created	x	x	x	x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	Creation of network of logistic service of republican value in the cities, the regional and district centers, and also the international logistic centers in the cities of Vahdat, Khujand and Nizhny Novgorod Pyandzhe is provided in this period.	x	x	x	x	x
General infrastructure improvements							

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
International Energy Charter	2015	promoting the realisation of infrastructure projects important for providing global and regional energy security modernisation, renewal and rationalisation by industry of services and installations for the production, conversion, transport, distribution and use of energy promoting the developemnt and interconnection of energy transport infrastructure and the regional integration of energy markets facilitating access to transport infrastructure, for the international trnaist purposes in line with the objectives of this Charter coordination and where appropriate, harmonisation of safety principles and guidelines for energy products and their transport as well as for energy installations, at high level					
Medium terms development program of the Republic of Tajikistan	2016	integration of cross-border and national transport formation and development of transit transport corridors and y reducing transport costs by rebuilding bridges, providing access to seaports	x	x			
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Construct and reconstruct transport infrastructure Create transit transport corridors	x	x			
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	planned to build roadside infrastructure structures (gas stations, service stations, shops, campsites and hotels) that will improve transport services creation of protective strips along roads on roadside areas	x				
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Establish an effective system for blackspot identification for the CAREC road network with a system of value for money assessment built in.	x				
General international conventions							
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Establish a biennial CAREC Road Safety Conference that helps to build communications, co-operation and confidence amongst member countries towards tackling road safety issues with a regional focus.	x				
General transport institutional reform							

XIV. Transport and Climate Policy Measures

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ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of May 6, 2011 No. 250 About the Ministry of transport of the Republic of Tajikistan	2011	Law of the Republic of Tajikistan "About regulatory legal acts" and in pursuance of the Presidential decree of the Republic of Tajikistan of February 28, 2011 "About further enhancement of structure of the central executive bodies of the Republic of Tajikistan" the Government of the Republic of Tajikistan decides No. 1026: 1) to Approve the Provision, Structure of Central office, the Scheme of management and the List of the companies, organizations and other organizations of system of the Ministry of transport of the Republic of Tajikistan (according to appendices 1, 2, 3 and 4). 2) to Establish the extreme number of employees of the Ministry of transport of the Republic of Tajikistan in number of 363 units (without service personnel), including Central office in number of 77 units (without service personnel). 3) to Permit the Ministry of transport of the Republic of Tajikistan to have 3 deputy ministers, including the One first Deputy Minister and board in number of 7 people. 4) to Set limit of office cars for the Ministry of transport of the Republic of Tajikistan in number of 22 units, including for Central office of 11 units. 5) Financing of Central office and the bodies specified in the Scheme of management of the Ministry of transport of the Republic of Tajikistan is performed at the expense of means of the republican budget and other means in coordination with the Ministry of Finance of the Republic of Tajikistan. 6) By merge of the state unitary enterprises "Transport Expedition of the Gissar Region", "Transport Expedition of the Rasht Region", "Transport Expedition of Sughd Area", "Transport Expedition of the Kulob Region", "Transport Expedition of the Kurgan-Tyubinsky Region" and "Transport Expedition of GBAO" to create the State unitary enterprise "Road transport and logistic servicing. 7) by the Legal successor of the state unitary enterprises "Transport Expedition of the Gissar Region", "Transport Expedition of the Rasht Region", "Transport Expedition of Sughd Area", "Transport Expedition of the Kulob Region", "Transport Expedition of the Kurgan-Tyubinsky Region" and "Transport Expedition of GBAO" after signing of the acceptance report and cession of property to consider the State unitary enterprise "Road transport and logistic servicing. 8) To the ministry of transport of the Republic of Tajikistan in accordance with the established procedure to resolve organization-legal issues of the State unitary enterprise "The road transport and logistic servicing.	x				
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of October 27, 2020 No. 551 About the Interdepartmental advisory commission in the field of road transport	2020	The interdepartmental advisory commission in the field of road transport (further - the Commission) is created for the purpose of consideration of the offers connected with development in the field of road transport, increase in level of efficiency and enhancement of economic methods, protection of interests of haulage contractors, carriers, clients and society.	x				
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Create a CAREC Road Safety Working Group to monitor progress at the regional level.	x				

Intermodality measures

XIV. Transport and Climate Policy Measures

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ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	creation of necessary conditions for development of intermodal transports	x	x			
Investment required for specific projects							
Medium terms development program of the Republic of Tajikistan	2016	increasing the allocation of budget funds for the maintenance of public roads	x				
Investment volume for transport							
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	build a second runway at Dushanbe airport for a total amount of \$40 million bridges will be rehabilitated for a total of \$5.5 million. 274.2 million US dollars will be allocated to maintain roads at the proper level, including about 192 million US dollars for the maintenance of international and republican roads, and 82.26 million dollars for local roads.	x			x	x
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	The planned costs for 2010-2025 in general are determined by the Program at the rate of GDP growth within 4-5 percent, including growth of vehicles within 6-7 percent	x	x	x	x	
Passenger and freight load limits							
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017-2030	2017	Ensure that information on national load limit regulations is shared among CAREC countries.	x				
Reference to finance mechanisms within country							
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	provision of soft credits to participants of international carriages for purchase of the vehicles meeting international standards	x				
Reporting, transparency, feedback mechanism							

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Undertake regular monitoring of national road safety action plans and evaluate outcomes to provide feedback to improve road safety intervention development and delivery Review the effectiveness of the legislation framework for vehicle insurance requirements across CAREC countries	x				
Request for financial support to develop transport							
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Seek funding from external sources to augment road safety national budgets.	x				
Technical standards for general transport infrastructure							
Medium terms development program of the Republic of Tajikistan	2016	bringing all transport facilities, including logistics centers, into compliance with the requirements of international standards in order to increase the volume of transportation of goods and passengers	x	x	x	x	
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	reduction of transport infrastructure to international standards in ecological parameters	x	x	x	x	
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Conduct a legislative review of vehicle standards across CAREC countries to ensure that these are at a level that promotes safety	x				
Technologies on transport asset management							
Medium terms development program of the Republic of Tajikistan	2016	provision of new equipment and machinery for the maintenance of roads, airports and the functioning of the transportation process	x				
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	improvement of road surfaces through the use of polymers, technical rules and road construction	x				
ORDER OF THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of April 1, 2011 No. 165 About approval of the State target development program of transport complex of the Republic of Tajikistan till 2025	2011	regarding protection of atmospheric air: - development of highway network and improvement of the quality of their content enhancement of road coverings due to use of polymers, technical regulation and arrangement of highways;	x				
Technology and knowledge transfer							

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
Medium terms development program of the Republic of Tajikistan	2016	expanding access to modern information and communication services					
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Ensuring development in accordance with up-to-date requirements of transport and logistics centers network and maintenance system					
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	use of equipment that reduces the harmful effects of fuel on the atmosphere					
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Provide opportunities for CAREC countries to share expertise and knowledge to ensure consistency of vehicle inspection and maintenance systems across CAREC countries	x				
Training of enforcement authorities							
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Provide training for traffic police and engineers in crash investigation and blackspot identification.	x				
Transport law							
Code of Road Transport of the Republic of Tajikistan (Law No. 1689).	2020	The driver of a vehicle engaged in international road transport must have a national or international driver's license corresponding to the category of the vehicle being driven, permits and other documents required in accordance with the legislation and international treaties of the Republic of Tajikistan for international road transport.	x				
CODE OF THE ROAD TRANSPORT OF THE REPUBLIC OF TAJIKISTAN of April 2, 2020 No. 1689	2020	This Code governs the relations connected with carriage of goods, passengers, baggage, is transport - expeditionary activities, arising between subjects, irrespective of patterns of ownership, for the purpose of creation of conditions for effective functioning of system of road transport on the basis of modern mechanisms and development assistance of services and effective development of economy.	x				

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
ORDER OF THE MINISTRY OF TRANSPORT OF THE REPUBLIC OF TAJIKISTAN of June 22, 2015 gogda No. 135 About approval of "System of certification of transport services in the Republic of Tajikistan"	2015	1. Approve the System of certification of transport services approved with standardization Agency, metrology, certification and control on trade under the Government of the Republic of Tajikistan in the Republic of Tajikistan it (is applied). 2. To public service on supervision and regulation in the field of transport and to the State unitary enterprise of "The center of certification of works and services in the field of transport" to carry out work on certification of transport services according to this system. 3. To management of the land transport and the legal sector to provide this order to the Ministry of Justice of the Republic of Tajikistan for state registration. This order becomes effective from the moment of its state registration and official publication. 4. To the state unitary enterprise of "Center of certification of works and services in the field of transport": - according to the approved System to prepare the necessary number of forms of certificates; - provide storage and accounting of forms of certificates within the established requirements. 5. To public service on supervision and regulation in the field of transport: - during licensing and carrying out inspection works according to additional requirements on licensing from legal entities and physical persons to carry out strict control over availability of certificates; - according to the legislation of the Republic of Tajikistan to take adequate measures on the relation of legal entities and physical persons which violate requirements of the first paragraph of this Item. 6. Recognize invalid orders of the Ministry of transport of the Republic of Tajikistan of April 20, 2012 as No. 63 "About approval of certificates of technical quality of public transport of new sample", of July 6, 2012 No. 117 "About establishment of the periods of carrying out technical inspection (certification) of cars", of April 4, 2014 No. 55 "About approval the Procedure for certification of works and services in the field of transport of the Republic of Tajikistan", of December 8, 2014 No. 221 "About approval of single samples of forms of certificates and terms of their action in the field of transport" and of January 16, 2015 No. 07 "About approval of the Procedure (System) of certification of works and services in the field of transport of the Republic of Tajikistan". 7. Control of execution of this order to assign to the deputy minister supervising industry.	x	x	x	x	
RESOLUTION GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN of February 4, 1999 No. 25 About the national compulsory insurance of passengers of road, water, air and rail transport	1999	Determine that passengers of road, air, water, rail transport, irrespective of nationality about forms of business of property of translation aids, for the period of trip (flight) are subject to the national compulsory insurance and are considered insured during transportation since the beginning of landing before arrival in destination (exit from the station).	x	x	x	x	
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Strengthen legislative frameworks based on the findings of the review. Introduce modifications and amendments to the legislative framework in each CAREC country.	x				

Vehicle air pollution emission standards

XIV. Transport and Climate Policy Measures

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Document	Year published	Measure	Road	Rail	Domestic Navigation	Domestic Aviation	Urban Transport
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Development and implementation of measures to reduce the level of industrial and transport emissions	x				
The First National Communication of the Republic of Tajikistan under the United Nations Framework Convention on Climate Change	2003	regulating exhaust gas emissions	x				
Vehicle inspection and maintenance							
Safety Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	Review legislative framework for vehicle inspection and maintenance systems in CAREC countries.	x				

References:

- 1) UN Population Database (2022), <https://population.un.org/wpp/>
- 2) World Bank (2022), <https://data.worldbank.org/>
- 3) Global Materials Flow Database (UNEP, 2023), <https://www.resourcepanel.org/global-material-flows-database>
- 4) Emissions Database for Global Atmospheric Research (EC, 2023), <https://edgar.jrc.ec.europa.eu/>
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