

# Tajikistan

## Transport 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, 2022)  
**48.64 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, 2022)  
**4,887 USD** (1,2)  
(2)

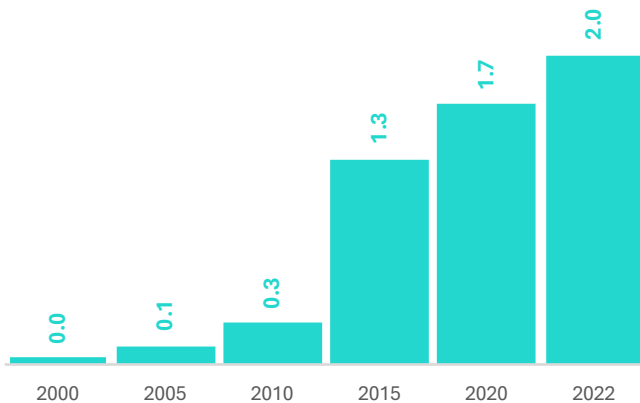
(3)

## Transport and Climate Change

Transport fossil CO2 emissions, million tonnes

(4)

*In 2010, transport contributed 8.7% of total fossil CO2 emissions. By 2022, transport contributed 19.0%.*



Share of transport CO2 emissions by mode (2022)

| 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 100.0% in transport fossil CO2 emissions. Between 2016-2022, road transport contributed 99.8%.*

Transport CO2 emissions intensity with GDP, 2022  
**41.3 gCO2 per USD**

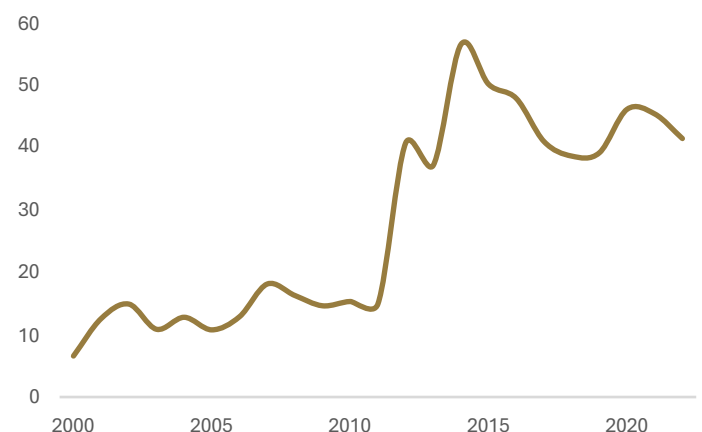
*Asia-Pacific average is 33.2 gCO2 per USD*

Transport CO2 emissions intensity with GDP trend, gCO2 per USD

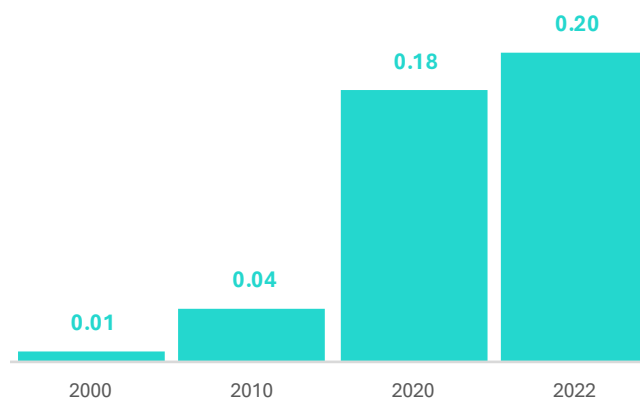
(2,4)

(2,4)

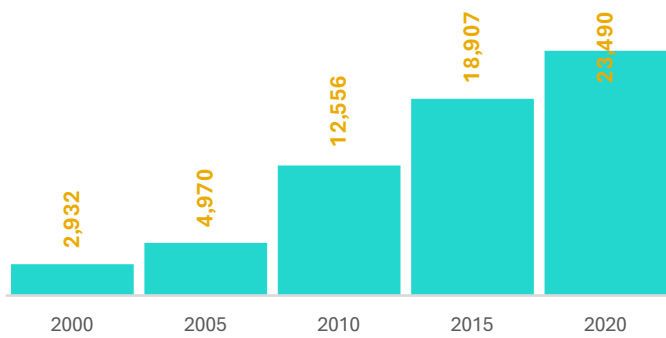
(1,4)



Transport fossil CO2 emissions per capita, tonnes



Transport energy consumption, terajoules

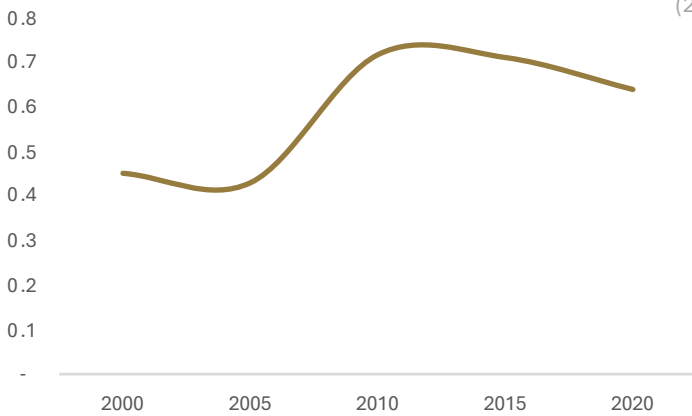


Transport energy intensity with GDP, 2020

**0.6 MJ per USD**

Asia-Pacific average is 0.5 MJ per USD

Transport energy intensity with GDP trend, MJ per USD

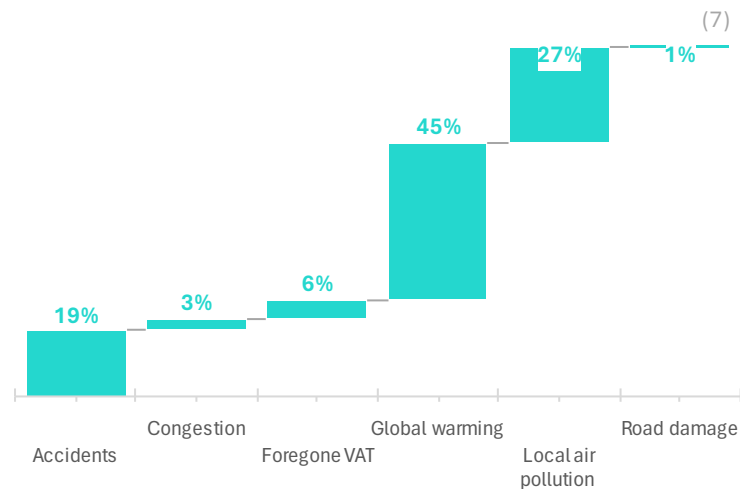


Transport fossil fuel subsidies, cumulative from 2010 to 2022

**None**

0.0% of Asia-Pacific total

Implicit fossil fuel subsidies due to externalities



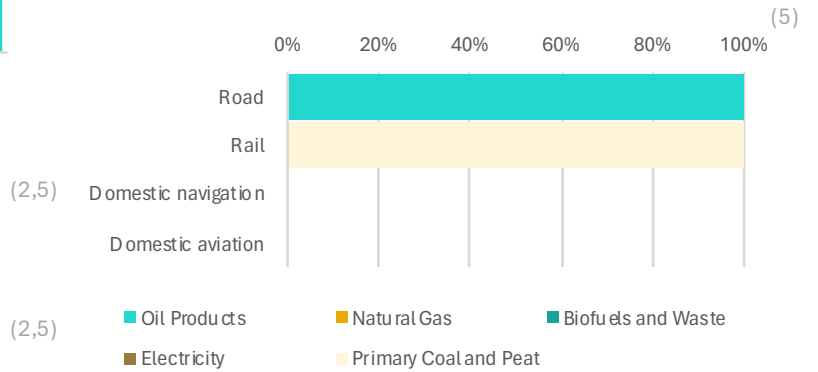
Data includes all sectors and all fuel types

Share of transport energy consumption by mode (2020)



Navigation and aviation only includes domestic transportation

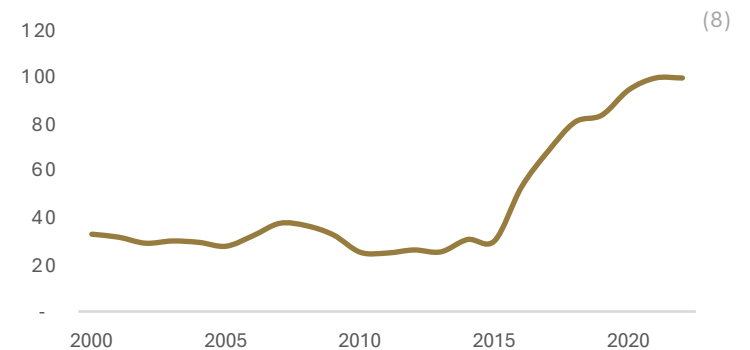
Share of transport energy consumption by source (2020)



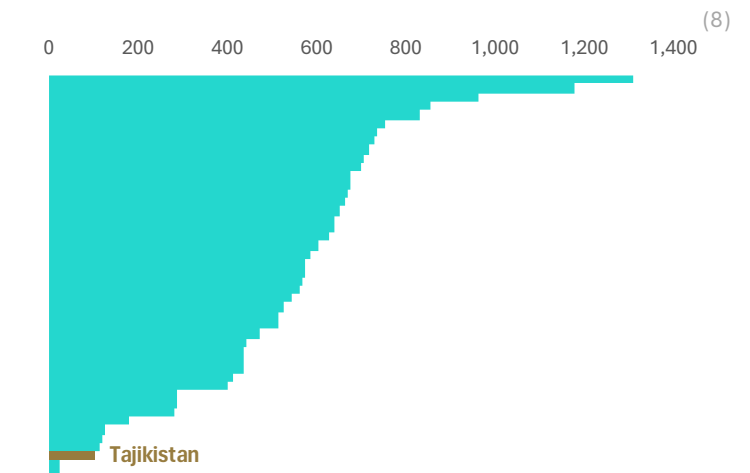
Grid emission factor (2022)

**99.3 gCO2 per kWh**

Grid emission factor trend, gCO2 per kWh



Grid emission factors in Asia-Pacific, gCO2 per kWh



## Vehicle Fleet

Road vehicles (2023)  
n.d.

Road vehicle motorization rate (2023)  
n.d.

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

Electric road vehicle import value (2017-2022)

(9) | Total **0 thousand USD** | Hybrid-electric **0 thousand USD** (11)

(1,9) Electric road vehicle share in total road vehicle import value trend (11)

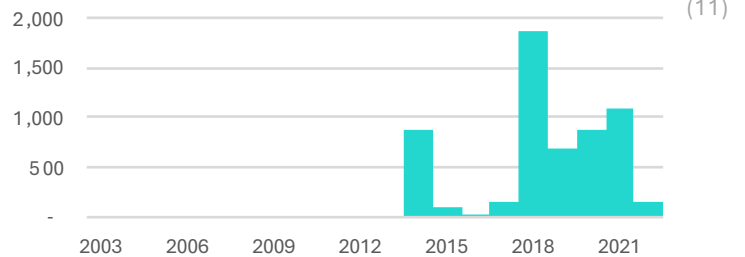
Share of vehicles by type

Bus vehicle production, units

Bus import value (2017-2022)

**100.1 million USD** (11)

(10) Bus import value trend, assuming 2015=100 (11)



## Adaptation

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

**14.54 million USD**

Share of average annual losses due to hazards, by mode (2022)

Road	Rail
<b>91%</b>	<b>8%</b>
Ports	Airports
<b>0%</b>	<b>1%</b>

National road vulnerability index ranking (2023)

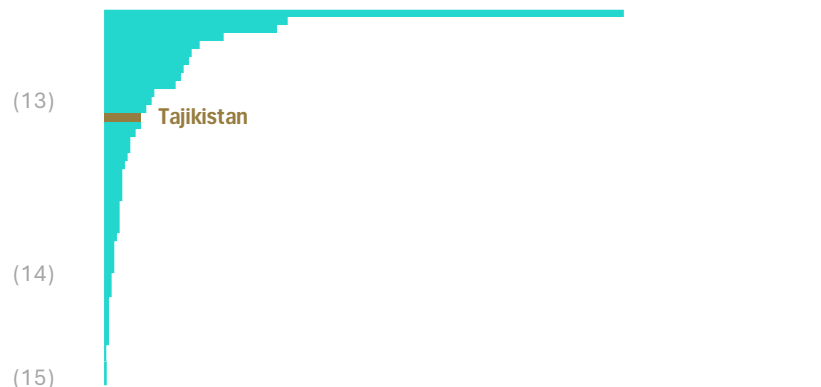
**203rd out of 208 countries**

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)

(12) 0.00% 0.10% 0.20% 0.30% 0.40% 0.50% (12)



## Urban Transport

Urban rapid transit length (2021)

| BRT **None** | LRT **None**

| Metro **None** (16)

Urban rapid transit ratio (2021)

**NA** (1,16)

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

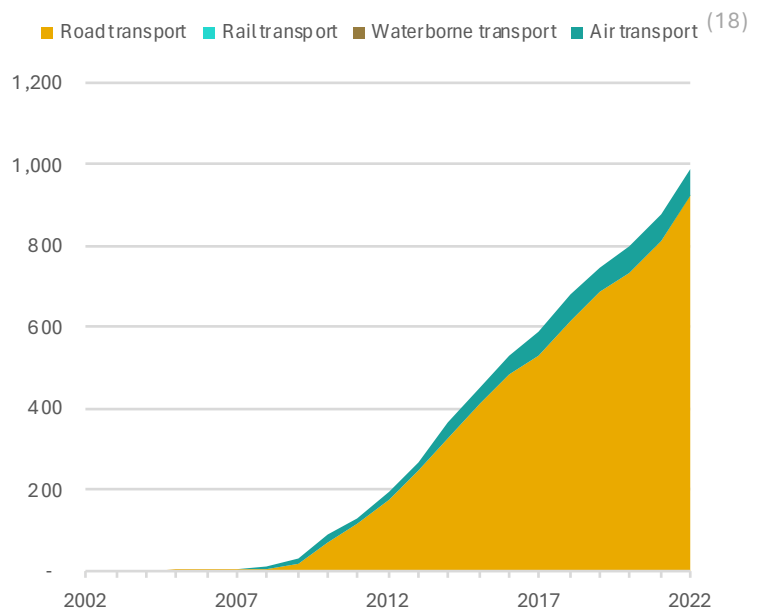
Urban rapid transit ratio in Asia- Pacific, kilometers per million urban population (2021)

*Based on 2015 estimates, only 59% of the population could reach the nearest city in 30 minutes, another 11% could reach in 1 hour, and another 16% could reach only after 3 hours.*

## Transport Investment

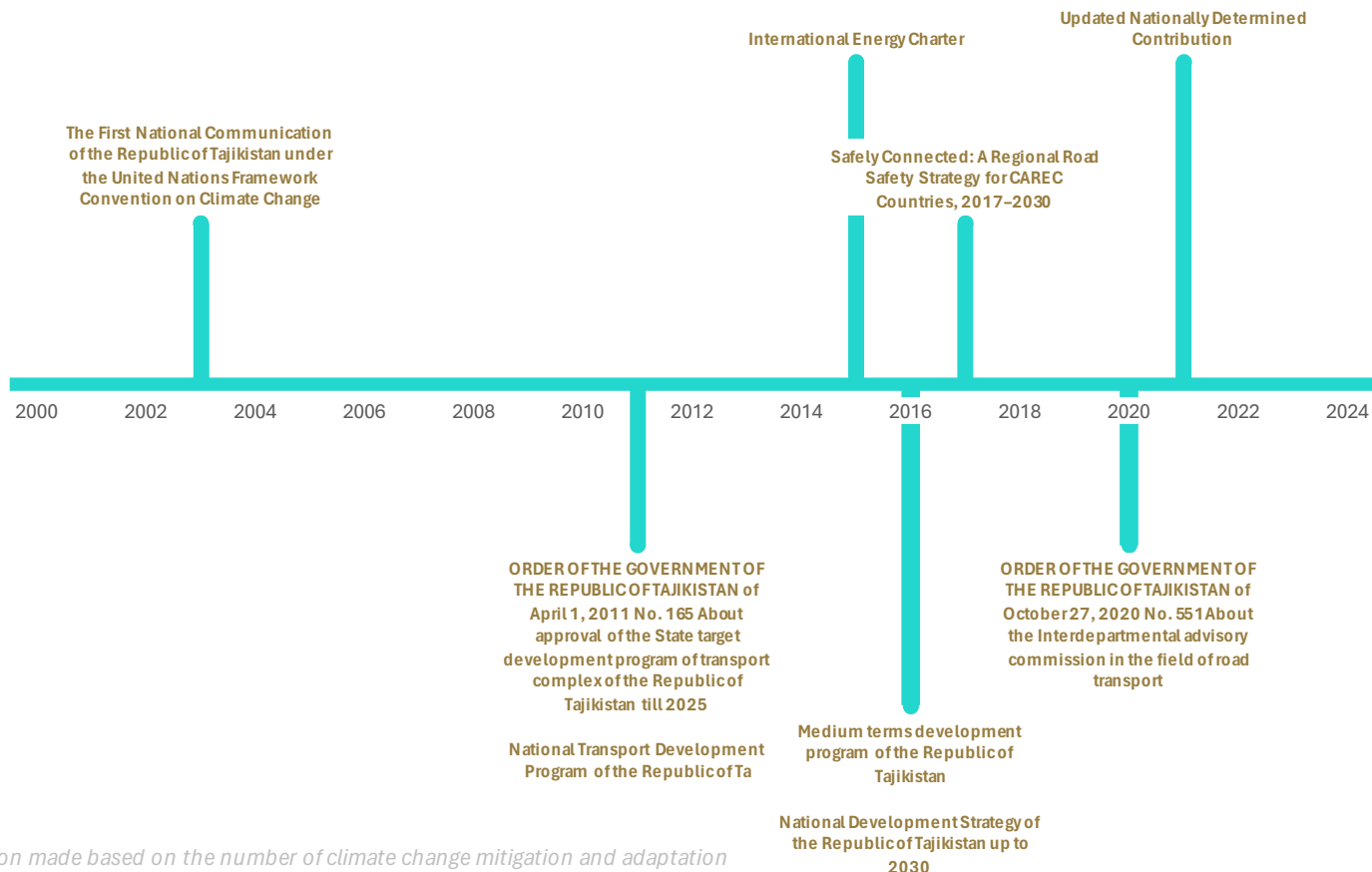
Public-private partnership investments in the transport sector, million USD

Official development assistance in the transport sector, million USD



## Transport Climate Policy Documents

Transport-related policy documents in Tajikistan



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

## Nationally Determined Contributions

**Updated Nationally Determined Contribution (adopted in 2021)**

	Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
Mitigation measures	Yes	Yes			Yes
Mitigation targets					
Adaptation measures	Yes	Yes	Yes	Yes	Yes
Adaptation targets					

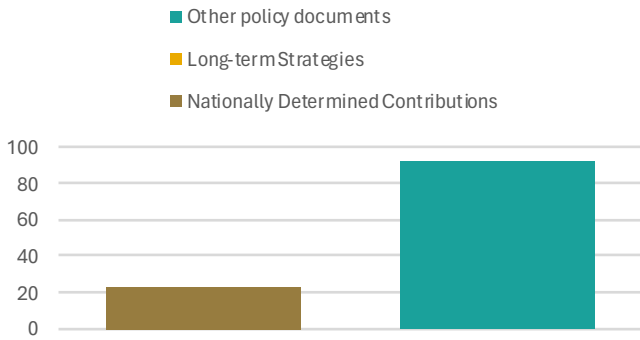
## Long-term Strategies

None

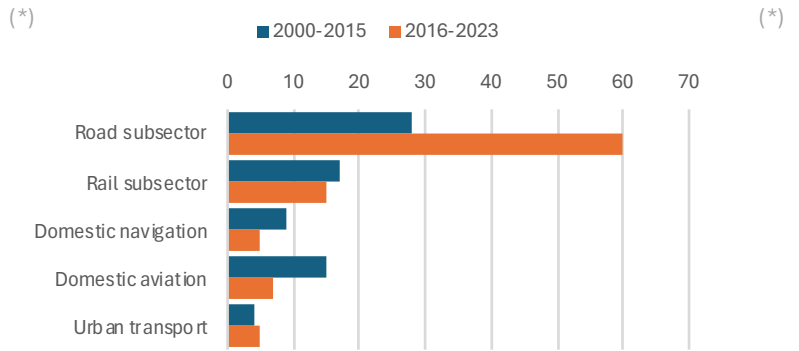
	Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
Mitigation measures					
Mitigation targets					
Adaptation measures					
Adaptation targets					

Transport Climate Policy Overview

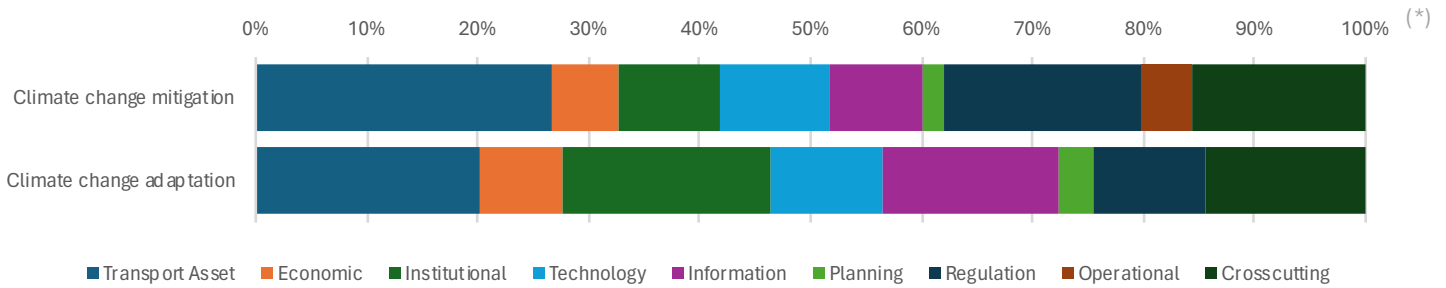
Number of measures by source



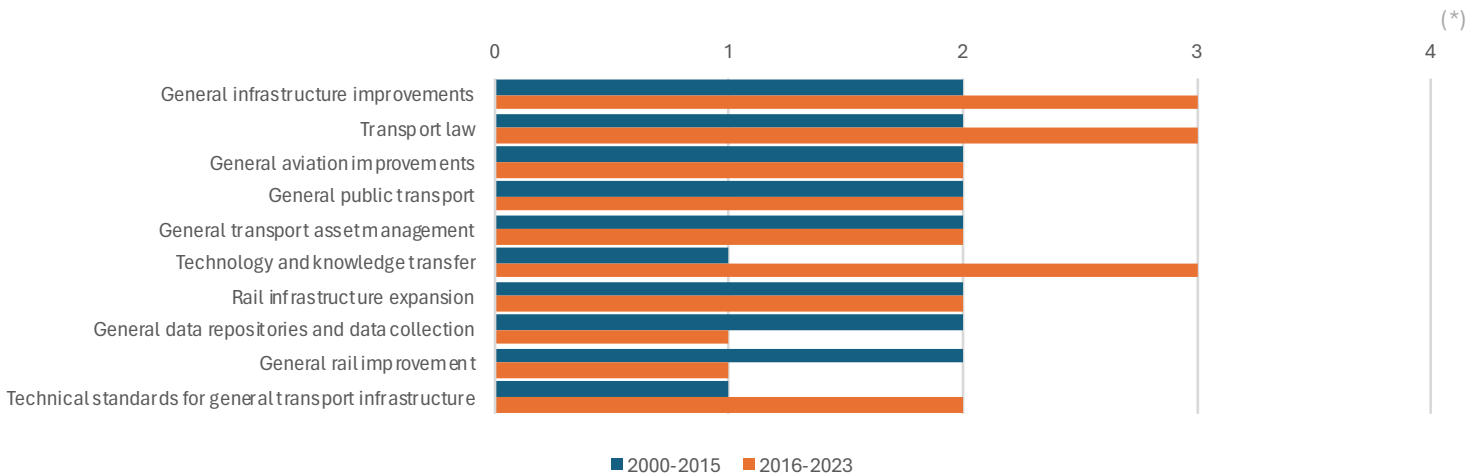
Number of climate change measures by subsectors



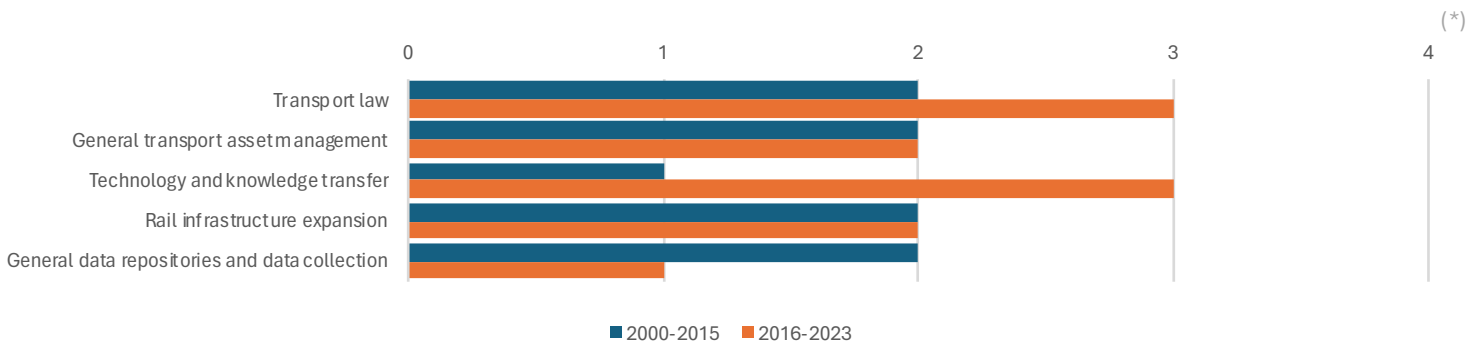
Transport-related climate change by framework



Climate change mitigation top 10 typology, number of measures



Climate change adaptation top 5 typology, number of measures



## Climate Change Mitigation Policy Measures - Road Transport

Policy document	Year	Measures
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	General data repositories and data collection, General infrastructure improvements, LPG/ CNG/ LNG, Technologies on transport asset management, General transport asset management, Access restriction by corridor/ road, Investment volume for transport, Road infrastructure expansion
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	Define roles and accountabilities across agencies, General transport institutional reform
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	Define roles and accountabilities across agencies, General transport institutional reform
Updated Nationally Determined Contribution	2021	General active mobility, General e-mobility, Vehicle scrappage scheme, Technical standards for road infrastructure, General land use, General public transport, General transport asset management, Energy efficient vehicle purchase incentives, Logistics hub, Road infrastructure expansion, Vehicle efficiency standards, Vehicle manufacturing
International Energy Charter	2015	Fuel quality
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	General infrastructure improvements, Vehicle inspection and maintenance, Technical standards for road infrastructure, Technical standards for general transport infrastructure, General international conventions, Request for financial support to develop transport, Technology and knowledge transfer, Training of enforcement authorities, General capacity building, General transport institutional reform, Reporting, transparency, feedback mechanism, Transport law, Passenger and freight load limits
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	General data repositories and data collection, General freight and logistics improvements, Intermodality measures, Technical standards for general transport infrastructure, General land use, LPG/ CNG/ LNG, General public transport, Technologies on transport asset management, Investment volume for transport, Reference to finance mechanisms within country, Logistics hub, Vehicle manufacturing
National Development Strategy of the Republic of Tajikistan up to 2030	2016	General freight and logistics improvements, General infrastructure improvements, Vehicle air pollution emission standards, Vehicle efficiency standards
Medium terms development program of the Republic of Tajikistan	2016	General infrastructure improvements, Technical standards for general transport infrastructure, General public transport, Technologies on transport asset management, General transport asset management, Investment required for specific projects, Logistics hub, Road infrastructure expansion
THE LAW OF REPUBLIC TAJIKISTAN "ABOUT TRANSPORT"	2000	General public transport
Code of Road Transport of the Republic of Tajikistan (Law No. 1689).	2020	Transport law
CODE OF THE ROAD TRANSPORT OF THE REPUBLIC OF TAJIKISTAN of April 2, 2020 No. 1689	2020	Transport law
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	Transport law

## Climate Change Mitigation Policy Measures - Road Transport

Policy document	Year	Measures
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	Transport law
The First National Communication of the Republic of Tajikistan under the United Nations Framework Convention on Climate Change	2003	Vehicle air pollution emission standards



## Climate Change Mitigation Policy Measures - Rail Transport

Policy document	Year	Measures
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	Define roles and accountabilities across agencies
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	Define roles and accountabilities across agencies
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	General data repositories and data collection, General freight and logistics improvements, Intermodality measures, General rail improvement, Technical standards for general transport infrastructure, General transport asset management, Investment volume for transport, Logistics hub, Rail infrastructure expansion
National Development Strategy of the Republic of Tajikistan up to 2030	2016	General freight and logistics improvements, General infrastructure improvements
Medium terms development program of the Republic of Tajikistan	2016	General infrastructure improvements, Technical standards for general transport infrastructure, General public transport, Logistics hub, Rail infrastructure expansion
Updated Nationally Determined Contribution	2021	Railway electrification, General rail improvement, General land use, General public transport, Logistics hub, Rail infrastructure expansion
THE LAW OF REPUBLIC TAJIKISTAN "ABOUT TRANSPORT"	2000	General public transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	General rail improvement, General transport asset management, Rail infrastructure expansion
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	Transport law
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	Transport law

## Climate Change Mitigation Policy Measures - Domestic Navigation

Policy document	Year	Measures
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	Define roles and accountabilities across agencies
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	Define roles and accountabilities across agencies
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	General data repositories and data collection, General freight and logistics improvements, Technical standards for general transport infrastructure, Investment volume for transport, Logistics hub
National Development Strategy of the Republic of Tajikistan up to 2030	2016	General freight and logistics improvements
Medium terms development program of the Republic of Tajikistan	2016	Technical standards for general transport infrastructure, Logistics hub
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	Transport law
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	Transport law

## Climate Change Mitigation Policy Measures - Domestic Aviation

Policy document	Year	Measures
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	Air traffic management, General aviation improvements, General transport asset management, Investment volume for 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	Air traffic management, General aviation improvements, General data repositories and data collection, General freight and logistics improvements, Technical standards for general transport infrastructure, Investment volume for transport, Logistics hub
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	Define roles and accountabilities across agencies
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	Define roles and accountabilities across agencies
Medium terms development program of the Republic of Tajikistan	2016	General aviation improvements, Technical standards for general transport infrastructure, Logistics hub
National Development Strategy of the Republic of Tajikistan up to 2030	2016	General aviation improvements, General freight and logistics improvements
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	Transport law
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	Transport law

## Climate Change Mitigation Policy Measures - Urban Transport

Policy document	Year	Measures
Updated Nationally Determined Contribution	2021	General active mobility, General land use, General public 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	General freight and logistics improvements, General public transport
Medium terms development program of the Republic of Tajikistan	2016	General public transport
THE LAW OF REPUBLIC TAJIKISTAN "ABOUT TRANSPORT"	2000	General public transport
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	Investment volume for transport

## Climate Change Adaptation Policy Measures

Policy document	Year	Measures
Updated Nationally Determined Contribution	2021	Climate-resilient design standards, Transport infrastructure resilience, General transport asset management, General capacity building, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport, 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	Define roles and accountabilities across agencies, General transport institutional reform (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
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	Define roles and accountabilities across agencies, General transport institutional reform (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
National Development Strategy of the Republic of Tajikistan up to 2030	2016	Employment in transport, communication, and storage, Technology and knowledge transfer (Sub-sectors: NA)
Medium terms development program of the Republic of Tajikistan	2016	General data repositories and data collection, Technologies on transport asset management, General transport asset management, Investment required for specific projects, Technology and knowledge transfer, General capacity building, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport)
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	General international conventions, Request for financial support to develop transport, Technology and knowledge transfer, General capacity building, General transport institutional reform, Reporting, transparency, feedback mechanism, Transport law (Sub-sectors: Road transport)
National Transport Development Program of the Republic of Tajikistan up to 2025	2011	General data repositories and data collection, Technologies on transport asset management, General transport asset management, Investment volume for transport, Technology and knowledge transfer, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport, 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	General data repositories and data collection, Technologies on transport asset management, General transport asset management, Investment volume for transport, Reference to finance mechanisms within country, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
First Nationally Determined Contribution	2015	Transport infrastructure resilience (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
Code of Road Transport of the Republic of Tajikistan (Law No. 1689).	2020	Transport law (Sub-sectors: Road transport)
CODE OF THE ROAD TRANSPORT OF THE REPUBLIC OF TAJIKISTAN of April 2, 2020 No. 1689	2020	Transport law (Sub-sectors: Road 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	Transport law (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
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	Transport law (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)

## Notes



(\*) Policy measures and targets were extracted from policy documents as listed in the ATO National Transport Policies Database

<https://bit.ly/ATOpolicyrepository>

## 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/>
- (5) UN Energy Statistics (2021), <https://unstats.un.org/unsd/energystats/dataPortal/>
- (6) Fossil Fuels Consumption Subsidies 2022 (IEA, 2022), <https://www.iea.org/reports/fossil-fuels-consumption-subsidies-2022>
- (7) Climate Change Dashboard (IMF, 2024), <https://climatedata.imf.org/pages/access-data>
- (8) Ember (2023), <https://ember-climate.org/data-catalogue/yearly-electricity-data/>
- (9) Country Official Statistics
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- (11) Trademap (ITC, 2024), <https://www.trademap.org/>
- (12) Koks, et al. (2019), <https://www.nature.com/articles/s41467-019-10442-3>
- (13) Coalition for Disaster Resilient Infrastructure (CDRI, 2023), <https://giri.unepgrid.ch/facts-figures/building-infrastructures>
- (14) Koks, et al. (2023), <https://iopscience.iop.org/article/10.1088/2634-4505/acd1aa>
- (15) Environmental Vulnerability Indicators (UN, 2018), <https://www.un.org/development/desa/dpad/least-developed-country-category/evi-indicators-ldc.html>
- (16) Rapid Transit Database (ITDP, 2022), <https://www.itdp.org/rapid-transit-database/>
- (17) PPI Database (World Bank, 2023), <https://ppi.worldbank.org/en/ppi>
- (18) Organisation for Economic Co-operation and Development (OECD) (2022), <https://stats.oecd.org/Index.aspx?DataSetCode=CRS1#>

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