

# Country **Fact Sheets**

31 country fact sheets are presented in this section for countries that had the highest absolute transport carbon dioxide (CO<sub>2</sub>) emissions in 2019. These fact sheets present data on transport demand, emission trends and measures taken at the national level towards achieving a decarbonised, sustainable transport system.

### 31 countries covered:



#### 8 in Africa

Algeria, Angola, Egypt, Ghana, Kenya, Morocco, Nigeria and South Africa

#### 6 in Asia

China, India, Indonesia, Iran, Japan and Saudi Arabia

#### 5 in Europe

France, Germany, Italy, the Russian Federation and the United Kingdom



8 in Latin America and the Caribbean Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Mexico and Peru



2 in North America

Canada and the United States of America

# 2 in Oceania

Australia and New Zealand

Algeria	3
Angola	5
Argentina	7
Australia	9
Bolivia	11
Brazil	13
Canada	15
Chile	17
China	19
Colombia	21
Ecuador	23
Egypt	25
France	27
Germany	29
Ghana	31
India	33
Indonesia	35
Iran	37
Italy	39
Japan	41
Kenya	43
Mexico	45
Morocco	47
New Zealand	49
Nigeria	51
Peru	53
Russia	55
Saudi Arabia	57
South Africa	59
United Kingdom	61
United States of America	63

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 LPG/CNG/LNG Mitigation

· Transport laws, regulations and programmes

Adaptation

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

#### 10 Walking and Cycling

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

#### 🛱 Urban Passenger and Freight Transport

Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	78 km in 6 cities
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	14.2

Passenger and Freight Railways				
Rail network (2019)	4 020 km			
High-speed rail	Not available			
High-speed rail travel activity	Not available			
National plans for passenger and freight rail expansion (2020)	~			
Ø Targets	<ul> <li>To develop high-speed rail and electrify railways</li> <li>Double passenger volume by 2025</li> </ul>			
Rail travel activity (2018)	1 602 million passenger-km			
Rail freight activity (2018)	1026 million ton-km			

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Not available
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not available
Targeted CO <sub>2</sub> emissions performance	Not available
🚓 Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
(?) Renewable Energy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	0.65%
Targeted % of renewable energy	Not available
→ Aviation	
Air passengers caried (2019)	6.7 million people
Air freight activity (2019)	25.6 million ton-km
Carbon-accredited airports (2020)	x
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	12.8
Container port traffic (2019)	1080000 TEU
* COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure	

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GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
	Light-duty/vobiolo

- LDV LRT Light-duty vehicl Light-rail transit
- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals
- WLTP Worldwide harmonised light vehicles test procedure

<b>SLOCAT</b>	Transport and Climate	Change Global Status Repo					
A	ngol	a			Any sec trar 209 the A n but ide	gola's transp cond-largest ( hsport CO <sub>2</sub> en % since 2010, country's tra ew railway lir : no other trar ntified.	ort emissions are the country's CO <sub>2</sub> -producing sector, and nissions have grown by over Overall, very limited details on nsport policies are available. Ik to Zambia is in preparation, Isport measures have been
	Population size (2020)	Urban population share (2020)	\$ (	GDP per capita 2019)			
Total	32.9 million	66.8%		3 103.5			
Growth	40.7%	57%		17.9%	- Inc	ome aroup: N	/iddle-income
(2010 to 2020)					Hu	man Develop	ment Index: 0.58
→ M	obility Demand	d Trends					
Passenge	er travel activity	Freight transr	oort act	tivitv	Fu	iel consur	mption (2018)
Nota	vailable	Not ava	ilahl		2	300	
NOU		NOUUVU	nabi		thc +7	thousand tonnes of oil equivalent +7% (2010 to 2018)	
	Not Avail	able		Not Available	No	t available	
Mod for pa t	dal share assenger ravel	Modal share for freight transport			I		Oil products
Car owne 32 vehicle:	e <b>rship growth (2005 to 201</b> s per 1,000 people	5) Vehicle Passeng 2080 +2.5% Comme 750	sales (2 jer (c 1 rcial 2	019) rowth 2010 to 2019) 4.0% 9.5%		esel cents per litre 18) 44	Super gasoline US cents per litre (2018)
$\sim$							
🙆 Tra	ansport Emissi	on Trends					
Transport	CO <sub>2</sub> emissions (2019)	Per capita transport CO	2 emissi	ons (2019)	Se	cond-large	st CO <sub>2</sub> producing
7.011111011	l	0.2 (011103			500		
LOW 0.25	.55 0.88			HIGH		30%	12%
0 👩 🚯	•			6		of national economy-wide emisisons come	Transport's share in black carbon emissions
	¢	🕽 Global average 🛛 🌖 Income grou	o average	Regional average		nom transport	(2013)
	ow Carbon Trar	sport Pathwa	ys				
Trees				25			Transport
Long-	-term strategy submitted to UNF	CCC Not submitted	:	20			CO <sub>2</sub> 2010 to 2019
NDC	submitted	1st NDC					+21%
NDC	highlights transport for GHG mit	tigation ×		15		, I.	Business-as-Usual
target	ts in NDC	×		10	:		2020 to 2050
Other NDC	non-emission related transport	targets in x		— mill			+0/%
Volun	ntary National Review highlights	transport Not submitted		5			Low Carbon Scenario
				0			-66%

• Not available

#### Sustainable Mobility Planning & Transport Demand Management

Not available
Not available
Not available

#### Now Walking and Cycling

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

₽ġ	Urban	Passenger	and Freig	ght Transp	ort

Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	Not available

齳	Passenger and Freight Railways
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Rail network (2011)	Not available
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	~
ø Targets	Railway link to Zambia and overall railway improvements
Rail travel activity (2018)	Not available
Rail freight activity (2016)	Not available

#### 👪 New Mobility Services

Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies	Not available

### Fuel Economy 🛋 Electric Mobility No. of cities with electric buses Not available × ICE phase-out targets (A) Renewable Energy Biofuel blend mandate (2019) 10% Ethanol Not available electricity) share in transport Not available **X** Aviation Air passengers caried (2019) 1.4 million people Air freight activity (2019) 68 million ton-km × Carbon-accredited airports (2020) of which carbon neutral × Shipping Liner shipping connectivity 25.7 index (2019) Container port traffic (2019) 672212.5 TEU 🕸 COVID-19 Traditional transport infrastructure Not available investment Not available

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#### List of acronyms

List of deforityffis	
GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle

- Light-rail transit LRT
- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- United Nations Framework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals UNFCCC VNR
- WLTP Worldwide harmonised light vehicles test procedure



- NDC Voluntary National Review highlights transport ~
- 2020 VNR with transport linkages to SDG 3, SDG 7, SDG 9, SDG 11, SDG 13 and SDG 16

- Use of renewable energy
- General comprehensive planning
   LPG/CNG/LNG
- Mitigation . Hydrogen •
- Electricity Vehicle labelling
- - .
- Emission standards General active mobility
- - General e-mobility
  - Biofuels

General alternative fuels

- · High capacity vehicles in freight
- Intelligent transport systems (ITS)

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- Vehicle scrappage schemeSustainable transport capacity building
- Freight transport shifting to rail or inland Ship efficiency improvements

- Adaptation
- Transport infrastructure resilience

Scenario

2020 to 2050

-84%

- Education and training Design standards and updates
- .
- Repair & maintenance
- Risk assessment

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Ø Targets	<ul> <li>Bill to establish framework for sustainable mobility</li> <li>To achieve zero-emission public transport by 2030</li> </ul>
Sustainable Urban Mobility Plans (2020)	~
Low Emission Zones (2020)	Not available

#### 🚵 Walking and Cycling

National walking strategies (2020) N

National cycling strategies (2020)

Cycling infrastructure in capital (2020)

300 km of separated bikelanes

GR Urban Passenger and Freight Transport		
Bus rapid transit (2020)	76 km in 3 cities	
Urban rail (LRT, metro, tram) (2020)	105 km in 2 cities	
Bus rapid transit daily passenger volume (2020)	1717000	
Rapid Transit to Resident Ratio (2019)	6	

🔢 Passenger and Freight Railways		
Rail network (2018)	17866 km	
High-speed rail (2018)	Not available	
High-speed rail travel activity (2018)	Not available	
National plans for passenger and freight rail expansion	~	
Rail travel activity (2017)	8361 million passenger-km	
Rail freight activity (2017)	8377 million ton-km	

Shared Mobility Services	
Bike-sharing systems (2020)	7 systems
Electric scooter services (2020)	1 operator in 1 city
Carsharing services (2021)	1 service
National legal frameworks for shared mobility (2020)	Yes, in Buenos Aires
Autonomous vehicles in operation or in preparation (2020)	1
A second second states and second second	Net evellele

Autonomous vehicles strategies (2020)

Not available

#### Fuel Economy

Emission standards for LDVs (2018)	Euro 5
$CO_2$ emissions performance for LDVs (2017)	187 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro V
Targeted CO <sub>2</sub> emissions performance	Not available

Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	4
ICE phase-out targets	×

Renewable Energy	
Biofuel blend mandate (2019)	10% Biodiesel, 12% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	8.42%

Targeted % of renewable energy Not a

Aviation	
Air passengers caried (2019)	19.5 million people
Air freight activity (2019)	280.3 million ton-km
Carbon-accredited airports (2020)	1 airport
of which carbon neutral	None
	-

Shipping	
Liner shipping connectivity index (2019)	31.5
Container port traffic (2019)	1998822 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available
Examples • Bustern	ninal expansion in Ushuaia and Rio Grande

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
CE	Internal combustion engine
.DV	Light-duty vehicle
.RT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
JNFCCC	United Nations Framework Convention on Climate Change
/NR	Voluntary national review of the Sustainable Developiment Goals
NLTP	Worldwide harmonised light vehicles test procedure



$\frac{d E}{\sigma _{2^{n}}}$ Sustainable Mobility Planning & Transport Demand Management				
National Urban Mobility Framework (2020)	Ý			
Ø Targets	Objectives around productivity, sustainability and liveability			
Sustainable Urban Mobility Plans (2020)	×			
Low Emission Zones (2020)	Not available			
🚲 Walking and Cycling				
National walking strategies (2020)	Not on national level, but subnational (e.g. Queensland)			
ø Targets	<ul> <li>Planning for walkable communities and places</li> <li>Building connected, comfortable and safe walking environments for all</li> <li>Encouraging more people to walk as part of their 'everyday'</li> <li>Working together to deliver on walking</li> </ul>			
National cycling strategies (2020)	~			
ø Target	Double the number of people cycling			
Cycling infrastructure in capital (2020)	Not available			
🛱 Urban Passenger and Freigh	nt Transport			
Bus rapid transit (2020)	90 km in 3 cities			
Urban rail (LRT, metro, tram) (2020)	608 km in 7 cities			
Bus rapid trapsit daily	413300			

passenger volume (2020)	413300
Rapid Transit to Resident Ratio (2019)	9.1

#### Passenger and Freight Railwavs

Rail network (2011)	8829 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	~
Ø Targets	<ul> <li>AUD 10 billion for passenger rail</li> <li>Several targets in support of resilient rail freight</li> </ul>
Rail travel activity (2018)	17586 million passenger-km
Rail freight activity (2016)	413490 million ton-km
Shared Mobility Services	
Bike-sharing systems (2020)	22 systems
Electric scooter services (2020)	3 operators in 11 cities
Carsharing services (2021)	19 services
National legal frameworks for shared mobility (2020)	Varying by state
Autonomous vehicles in operation or in preparation (2020)	7
Autonomous vehicles strategies (2020)	~

Fuel Economy		
Emission standards for LDVs (2018)	Euro 6	
$CO_2$ emissions performance for LDVs (2017)	188 gCO <sub>2</sub> /km	
Emission standards for HDVs (2018)	Euro VI	
Targeted CO <sub>2</sub> emissions performance	Not available	
Electric Mobility		
Electric vehicles (2019)	20 100	
Market share of electric vehicles (2019)	1.1%	
No. of cities with electric buses (2019)	1	
ICE phase-out targets	×	
(E) Renewable Energy		
Biofuel blend mandate (2019)	Not available	
Renewable energy (biofuels and electricity) share in transport (2018)	1.86%	
Targeted % of renewable energy	Not available	
<b>Y</b> Aviation		
Air passengers caried (2019)	76.9 million people	
Air freight activity (2019)	1931.2 million ton-km	
Carbon-accredited airports (2020)	12 airports	
of which carbon neutral	1 airport	
Shipping		
Liner shipping connectivity index (2019)	34.3	
Container port traffic (2019)	8 282 189 TEU	
COVID-19		
Traditional transport infrastructure investment	12.13 billion USD	
Clean transport infrastructure investment	Not available	
Examples • Geelon • Melbou • Infrastru	<ul> <li>Geelong to Melbourne railway line</li> <li>Melbourne airport rail link</li> <li>Infrastructure investment and road safety</li> </ul>	
This fact sheet is part of the SLOCAT     List of acronyms       Transport and Climate Change Global     GDP     Gross-domestic product       Status Report - 2nd edition.     HDV     Heavy-duty vehicle		

The last of lost of the second	LIOU OF GOIL	silyino -
Transport and Climate Change Global	GDP	Gross-domestic product
Status Report - 2nd edition.	HDV	Heavy-duty vehicle
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Country Fact Sheet | AUSTRALIA

<b>SLOCAT</b>		Change Global Status Repo				
Bo	olivia	a			Transport CO <sub>2</sub> er very high rate in than 80% since 2 of transport polic expected to cont or comprehensiv identified in the o	missions are growing at a <b>Bolivia</b> , increasing by more 2010. Due to an absence cies, this trend can be tinue. No transport strategies <i>ie</i> frameworks have been country.
	Population size (2020)	Urban population share (2020)	<b>GDP pe</b> (2019)	er capita		
Total	11.7 million	69.4%	257	79.9		
<b>Growth</b> (2010 to 2020)	16.2%	22.9%	51.	2%	Income group: N Human Develop	liddle-income ment Index: 0.72
😔 Mo	obility Demand	l Trends				
Passenger travel activity Not availableFreight transport activity Not availableFuel consumption (2018) (2018)Not availableNot available3 6 48Modal share for passenger modal share for freightNot Available						
Car owner 71.8 vehicle	rship growth (2005 to 2019 es per 1,000 people	5) Vehicle s Passeng 20319 Commen 9565	cales (2019) er (Growth 2011 -10% rcial -16%	D to 2019)	Diesel US cents per litre (2018)	Super gasoline US cents per litre (2018)
💩 Tra	ansport Emissi	on Trends				
Transport ( 10.1 millior	CO <sub>2</sub> emissions (2019) n tonnes	Per capita transport CO2	2 emissions (2	019)	Largest $CO_2 p$ in the country	producing sector
HIGH 0.85						
🕢 Lo	w Carbon Trar	sport Pathway	/S			
Transp Long-1 NDC s NDC h Transp targets Other n NDC Volunt	oort strategy identifies climate of term strategy submitted to UNF ubmitted ighlights transport for GHG mit port mitigation s in NDC non-emission related transport ary National Review highlights	Not available       CCC     Not submitted       1st NDC       igation     ×       targets in     Not available       transport     Not submitted	20 15 10 5 0	2010	- 2019 - 2020 - 2030 -	Transport CO2           2010 to 2019           +86%           Business-as-Usual Scenario           2020 to 2050           +68%           Low Carbon Scenario           2020 to 2050           2040 - 2050           -66%

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

#### Malking and Cycling

Cycling infrastructure in capital (2020)	78 km of separated bikelanes
National cycling strategies (2020)	Not available
National walking strategies (2020)	Not available

🛱 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	Not available

III) Passenger and Freight Railways	
Rail network (2006)	1244 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2000)	~
Rail travel activity (2018)	Not available
Rail freight activity (2016)	Not available

### 👪 Shared Mobility Services

Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

# Fuel Economy Emission standards for LDVs (2018) CO2 emissions performance for

# Targeted CO, emissions performance 🛋 Electric Mobility No. of cities with electric buses × ICE phase-out targets

Euro 2

W Reliewable Ellergy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	Not available
Targeted % of repoweble energy	Notavailabla

<b>Aviation</b>	
Air passengers caried (2019)	4.1 million people
Air freight activity (2019)	23.0 million ton-km
Carbon-accredited airports (2020)	×
of which carbon neutral	×

Shipping	
Liner shipping connectivity index (2019)	Not available
Container port traffic (2019)	Not available

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle

- Internal combustion engine
- ICE
- LDV LRT Light-duty vehicle Light-rail transit
  - Nationally determined contribution Twenty-foot Equivalent Unit
- NDC TEU
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals
- WLTP Worldwide harmonised light vehicles test procedure



Not available

• Not availal

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Ø Targets	<ul> <li>Reduce inequalities and promote social inclusion;</li> <li>Promote access to basic services and facilities;</li> <li>Improve access and mobility and promote sustainable development;</li> <li>Ensure participatory processs and continuous improvement of urban mobility.</li> </ul>
Sustainable Urban Mobility Plans (2020)	✓ Over 200 plans finalised

Low Emission Zones (2020)

#### 🚵 Walking and Cycling

National walking and cycling strategies (2020)	Walking and cycling strategies combined under Active Mobility Plans
ø Targets	<ul> <li>Improve conditions for urban active mobility;</li> <li>Foster the shift of users from private to active transport modes;</li> <li>Improve and foster integration between sustainable transport modes.</li> </ul>
Cycling infrastructure in capital (2020)	420 km

🛱 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	789 km in 22 cities
Urban rail (LRT, metro, tram) (2020)	308 km in 9 cities
Bus rapid transit daily passenger volume (2020)	10634415
Rapid Transit to Resident Ratio (2019)	12.1

#### Passenger and Freight Railways

Rail network (2007)	32622 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	×

Ø Targets	Increase share of rail freight from 15 to 31% by 2025
Rail travel activity (2017)	15807 million passenger-km
Rail freight activity (2007)	9394 million ton-km

#### Shared Mobility Services

Bike-sharing systems (2020)	41 systems
Electric scooter services (2020)	1 operator in 1 city
Carsharing services (2021)	3 services
National legal frameworks for shared mobility (2020)	Ŷ
Autonomous vehicles in operation or in preparation (2020)	1
Autonomous vehicles strategies	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 4
$CO_2$ emissions performance for LDVs (2017)	179 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro V
Targeted CO <sub>2</sub> emissions performance	128 gCO <sub>2</sub> /km by 2022
Electric Mobility	
Electric vehicles (2019)	3000
Market share of electric vehicles (2019)	0.1%
No. of cities with electric buses (2019)	9
ICE phase-out targets	×
🛞 Renewable Energy	
Biofuel blend mandate (2019)	11% Biodiesel, 27% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	23%
Targeted % of renewable energy	30% biodiesel and 10% biokerosene in aviation fuel by 2030
<b>Aviation</b>	
Air passengers caried (2019)	102.9 million people
Air freight activity (2019)	1521.2 million ton-km
Carbon-accredited airports (2020)	4 airports
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	34.2
Container port traffic (2019)	10 982 130 TEU
COVID-19	
Traditional transport infrastructure investment	Not available

investment

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#### List

20101010010	
GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Go
WLTP	Worldwide harmonised light vehicles test procedure







Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	~
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	~
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	<ul> <li>Image: A start of the start of</li></ul>
2018 VNR with transport linkages to SDG 7 and SD	)G 8



#### **Transport measures in NDC**

• Vehicle efficiency standards

LOW

0

0.88

#### Lange Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

#### 🐜 Walking and Cycling

National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for Active Mobility
ø Targets	Support local projects (since 2015 CAD 130 million in 126 projects).
Cycling infrastructure in capital (2020)	236 km of bikelanes

Urban Passenger and Freight Transport	
Bus rapid transit (2020)	246 km in 7 cities
Urban rail (LRT, metro, tram) (2020)	304 km in 6 cities
Bus rapid transit daily passenger volume (2020)	503 407
Rapid Transit to Resident Ratio (2019)	20.2

#### Passenger and Freight Railways

Rail network (2018)	47 687 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	~
Rail travel activity (2018)	1598 million passenger-km
Rail freight activity (2019)	433 139 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	23 systems
Electric scooter services (2020)	2 operators in 5 cities
Carsharing services (2021)	67 services
National legal frameworks for shared mobility (2020)	Only on subnational level
Autonomous vehicles in operation or in preparation (2020)	9
Autonomous vehicles strategies (2020)	~

Fuel Economy	
Emission standards for LDVs (2018)	Euro 6
CO <sub>2</sub> emissions performance for LDVs (2017)	206 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro VI
Targeted CO <sub>2</sub> emissions performance	99 gCO <sub>2</sub> /km by 2025
Electric Mobility	
Electric vehicles (2019)	141100
Market share of electric vehicles (2019)	3%
No. of cities with electric buses (2019)	9
CE phase-out targets	2040
🕢 Renewable Energy	
Biofuel blend mandate (2019)	2% Biodiesel, 5% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	4.2%
Targeted % of renewable energy	Not available
<b>X</b> Aviation	

Aviation	
Air passengers caried (2019)	93.4 million people
Air freight activity (2019)	2395.1 million ton-km
Carbon-accredited airports (2020)	17 airports
of which carbon neutral	×
A Obimminum	

Liner shipping connectivity 4 index (2019)	2.8
Container port traffic (2019) 7	004090 TEU

COVID-19	
Traditional transport infrastructure investment	USD 1.76 billion
Clean transport infrastructure investment	USD 0.07 billion
Examples • Public tr	ansport support

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#### List of a

2101 01 01010	
GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goa
WLTP	Worldwide harmonised light vehicles test procedure



Not available

#### Transport measures in NDC

- General e-mobility
- General public transport improvement
- Cycling measures
- Hydrogen

Mitigation

Sustainable Mobility Planning & Transport Demand Managemer		
	National Urban Mobility	
	Framework (2020)	

✓ in 37 cities Sustainable Urban Mobility Plans (2020)

#### 👬 Walking and Cycling

National walking and cycling strategies (2020)

(2020)

urban mobility plans 36 km of separated bikelanes

Walking and cycling covered in local

Cycling infrastructure in capital

Urban Passenger and Freight Transport	
Bus rapid transit (2020)	105 km in 2 cities
Urban rail (LRT, metro, tram) (2020)	145 km in 2 cities
Bus rapid transit daily passenger volume (2020)	476 800
Rapid Transit to Resident Ratio (2019)	28

Passenger and Freight Railways		
Rail network (2005)	2 120 km	
High-speed rail (2018)	Not available	
High-speed rail travel activity (2018)	Not available	
National plans for passenger and freight rail expansion (2020)	×	
Ø Targets	<ul> <li>25 new projects covering 1,000 km of railway lines</li> <li>To triple number of passengers (to reach 150 million a year) by 2027</li> <li>To double freight volumes (to reach 21 million tons a year) by 2027</li> </ul>	
Rail travel activity (2018)	677 million passenger-km	
Rail freight activity (2019)	3079 million ton-km	

👪 Shared Mobility Services		
Bike-sharing systems (2020)	7 systems	
Electric scooter services (2020)	5 operators in 8 cities	
Carsharing services (2021)	1 service	
National legal frameworks for shared mobility (2020)	Not available	
Autonomous vehicles in operation or in preparation (2020)	1	
Autonomous vehicles strategies (2020)	Not available	

#### 📄 Fuel Economy Emission standards for LDVs (2018) Euro 4 CO<sub>2</sub> emissions performance for 189 gCO<sub>2</sub>/km LDVs (2017) Emission standards for HDVs Furo V (2018) Targeted CO, emissions 🛋 Electric Mobility Electric vehicles (2019) 700 Market share of electric vehicles 0.1% (2019) No. of cities with electric buses 4 (2019) ICE phase-out targets Only buses by 2040 🚯 Renewable Energy Renewable energy (biofuels and 1% electricity) share in transport (2018) Targeted % of renewable energy **Aviation** 21.2 million people Air passengers caried (2019) Air freight activity (2019) 1232.4 million ton-km Carbon-accredited airports 1 airport (2020) of which carbon neutral × 😩 Shipping Liner shipping connectivity 35.7 index (2019) Container port traffic (2019) 4658310 TEU

COVID-19	
Traditional transport infrastructure investment	e Not available
Clean transport infrastructure investment	USD 0.08 billion
Examples • Electri	ic bus terminal

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LIST OF ACTO	nyms
GDP	Gross-domestic product
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WLTP	Worldwide harmonised light vehicles test procedure



#### Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	~
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	× 2016 VNR with no transport linkages

#### CO2 2010 to 2019 1500 +70% Business-as-Usual 1000 Scenario 2020 to 2050 +67% 500 Low Carbon Scenario 2020 to 2050 0 -100%

Transport

#### **Transport measures in NDC**

- Fuel quality improvement
- Alternative fuels Walking measures .
- Mitigation
  - Walking measures
    Cycling measures
    Freight efficiency measures

 System improvements Comprehensive planning

· Public transport integration and expansion

Not available

2000

#### Lange Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Ø Targets	<ul> <li>Building an integrated urban transport network</li> <li>Implementing comprehensive urban transport systems</li> <li>Aimed to increase the share of public transport to 30% of all motorised trips by 2020, including by promoting walking and cycling</li> </ul>
Sustainable Urban Mobility Plans (2020)	~
Low Emission Zones (2020)	11 cities
Malking and Cycling	

National walking and cycling strategies (2020)	Walking and cycling are part of the national transport strategy
Cycling infrastructure in capital (2020)	900 km of separated bikelanes

#### 🛱 Urban Passenger and Freight Transport

Bus rapid transit (2020)	672 km in 20 cities
Urban rail (LRT, metro, tram) (2020)	6 100 km in 37 cities
Bus rapid transit daily passenger volume (2020)	4375250
Rapid Transit to Resident Ratio (2019)	13.9

Passenger and Freight Railways	
Rail network (2019)	68 141 km
High-speed rail (2018)	29904 km
High-speed rail travel activity (2019)	774.7 billion passenger-km
National plans for passenger and freight rail expansion (2020)	~
ø Targets	By 2035, expand overall rail network to 200,000 km; with 70,000 km of high-speed railways.
Rail travel activity (2017)	1345690 million passenger-km
Rail freight activity (2018)	2882100 million ton-km
BI Charad Mability Complete	

Bike-sharing systems (2020)	650 systems
Electric scooter services (2020)	Not available
Carsharing services (2021)	14 services
National legal frameworks for shared mobility (2020)	×
Autonomous vehicles in operation or in preparation (2020)	7
Autonomous vehicles strategies (2020)	×

Fuel Economy		
Emission standards for LDVs (2018)	Euro 4	
$CO_2$ emissions performance for LDVs (2017)	175 gCO <sub>2</sub> /km	
Emission standards for HDVs (2018)	Euro IV	
Targeted CO <sub>2</sub> emissions performance	93 gCO <sub>2</sub> /km by 2025	
Electric Mobility		
Electric vehicles (2019)	3349100	
Market share of electric vehicles (2019)	4.9%	
No. of cities with electric buses (2019)	32	
ICE phase-out targets	×	
(2) Renewable Energy		
Piofuel blond mendate (2010)	10% Ethanol	
Renewable energy (biofuels and electricity) share in transport (2018)	4.5%	
Targeted % of renewable energy	Not available	
<b>X</b> Aviation		
Air passengers caried (2019)	659.6 million people	
Air freight activity (2019)	25 394.6 million ton-km	
Carbon-accredited airports (2020)	6 airports	
of which carbon neutral	×	
Shipping		
Liner shipping connectivity index (2019)	151.9	
Container port traffic (2019)	242030000 TEU	
COVID-19		
Traditional transport infrastructure investment	Notavailable	
Clean transport infrastructure investment	USD 7.7 billion	
Examples • High-spe • Beijing li • Upgrade	<ul> <li>High-speed rail</li> <li>Beijing light truck operation</li> <li>Upgrade of ships</li> <li>Rural transport infrastructure</li> </ul>	

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#### List of acronyms

LISCOLUCIC	ingino
GDP	Gross-domestic product
HDV	Heavy-duty vehicle
CE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
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VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure



#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	×
Ø Targets	Pilot projects in medium-sized cities in development
Sustainable Urban Mobility Plans (2020)	×
Low Emission Zones (2020)	×

#### 🚵 Walking and Cycling

ø Targets

National walking and cycling strategies (2020)

g	Walking and cycling included in national development plan
	To develop a national action plan guiding walking and cycling promotion
ital	EEQ km of bilkolonoo

Cycling infrastructure in capital (2020)

550 km of bikelanes

Urban Passenger and Freight Transport	
Bus rapid transit (2020)	225 km in 7 cities
Urban rail (LRT, metro, tram) (2020)	31 km in 1 city
Bus rapid transit daily passenger volume (2020)	3071541
Rapid Transit to Resident Ratio	9.8

Passenger and Freight Railways	
Rail network (1994)	1915 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	~
Ø Targets	<ul> <li>Enhance the competitive advantages of railways</li> <li>Double commercial operation length from 420 km to 1,077 km by 2024</li> <li>Implement intermodal cargo mobilization strategy</li> </ul>
Rail travel activity (1990)	141 million passenger-km
Rail freight activity (1994)	2216 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	16 systems
Electric scooter services (2020)	1 operator in 1 city
Carsharing services (2021)	2 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

#### Fuel Economy

Emission standards for LDVs (2018)	Euro 2
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Euro IV
Targeted CO <sub>2</sub> emissions performance	Not available

Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	3
ICE phase-out targets	2035

Renewable Energy	
Biofuel blend mandate (2019)	10% Biodiesel, 10% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	7.2%

Targeted % of renewable energy Not a

X Aviation	
Air passengers caried (2019)	37 million people
Air freight activity (2019)	1547.7 million ton-km
Carbon-accredited airports (2020)	1 airport
of which carbon neutral	×

Shipping	
Liner shipping connectivity index (2019)	45.4
Container port traffic (2019)	4254900 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure



Sustainable Mobility Planning & Transport Demand Management	
National Urban Mobility Framework (2020)	In development
Sustainable Urban Mobility Plans (2020)	Yes, several cities and will be further expanded
Low Emission Zones (2020)	Not available

#### Malking and Cycling

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	136 km of separated bikelanes

🛱 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	117 km in 2 cities
Urban rail (LRT, metro, tram) (2020)	11 km in 1 city
Bus rapid transit daily passenger volume (2020)	1055000
Rapid Transit to Resident Ratio	21

III Passenger and Freight Railways	
Rail network (2000)	956 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	Not available
Rail travel activity (2018)	Not available
Rail freight activity (2016)	Not available

### 👪 Shared Mobility Services

Bike-sharing systems (2020)	1 system
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

### 📕 Fuel Economy Emission standards for LDVs (2018) Euro 1 Emission standards for HDVs Furo II (2018) Targeted CO, emissions performance 🛋 Electric Mobility No. of cities with electric buses 2 (2019) × ICE phase-out targets Renewable Energy Biofuel blend mandate (2019) 5% Biodiesel, 10% Ethanol Renewable energy (biofuels and 0.32% electricity) share in transport (2018) Targeted % of renewable energy

Aviation	
Air passengers caried (2019)	4.8 million people
Air freight activity (2019)	50.8 million ton-km
Carbon-accredited airports (2020)	3 airports
of which carbon neutral	2 airports

Shipping	
Liner shipping connectivity index (2019)	33.1
Container port traffic (2019)	2096300 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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#### List of acronyms

ICE

GDP	Gross-domestic product
HDV	Heavy-duty vehicle

- Internal combustion engine
- LDV LRT Light-duty vehicle Light-rail transit
- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals
- WLTP Worldwide harmonised light vehicles test procedure







#### Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	<ul> <li>Image: A start of the start of</li></ul>
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	<ul> <li>Image: A start of the start of</li></ul>
2018 VNR with transport linkages to SDG 7, SDG 8	and SDG 9



6

#### **Transport measures in NDC**

Mitigation Freight transport shifting to rail or inland

· General public transport improvement

General vehicle improvements

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	✓ Cairo Vision 2050
ø Targets	A global, green and connected city
Low Emission Zones (2020)	Not available

#### Not Walking and Cycling

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

Ge Urban Passenger and Freight Transport	
Not available	
108 km in 2 cities	
Not available	
Not available	

Passenger and Freight Railways	
Rail network (2016)	5 153 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	<ul> <li></li> </ul>
Rail travel activity (2008)	40837 million passenger-km
Rail freight activity (2010)	1592 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	1 system
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies	Not available

### Fuel Economy Emission standards for LDVs (2018) Euro 2 CO<sub>2</sub> emissions performance for 187 gCO<sub>2</sub>/km LDVs (2017) Emission standards for HDVs Furo II (2018) Targeted CO, emissions 🛋 Electric Mobility × ICE phase-out targets (A) Renewable Energy Renewable energy (biofuels and 0.2% electricity) share in transport (2018) **X** Aviation Air passengers caried (2019) 13 million people Air freight activity (2019) 483.4 million ton-km × Carbon-accredited airports (2020) of which carbon neutral × Shipping 66.7 Liner shipping connectivity index (2019) Container port traffic (2019) 6306866 TEU 🕸 COVID-19 Traditional transport infrastructure investment Clean transport infrastructure investment

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### List of acronyms GDP Gross-do

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit

- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- UNFCCC
- United Nations Framework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals VNR WLTP

Worldwide harmonised light vehicles test procedure



#### Le contration de la con

National Urban Mobility Framework (2020)	~
ø Targets	Compulsory in urban areas of over 100,000 inhabitants
Sustainable Urban Mobility Plans (2020)	~
Low Emission Zones (2020)	6 cities

#### Nalking and Cycling

National walking strategies (2020)	Subnational level
National cycling strategies (2020)	~
Ø Targets	Triple the modal share of cycling by 2024
Cycling infrastructure in capital (2020)	700 km of separated bikelanes

GR Urban Passenger and Freight Transport	
Bus rapid transit (2020)	342 km in 21 cities
Urban rail (LRT, metro, tram) (2020)	Over 586 km in 30 cities
Bus rapid transit daily passenger volume (2020)	457919
Rapid Transit to Resident Ratio (2019)	65.8

Passenger and Freight Railways	
Rail network (2019)	5923 km
High-speed rail (2018)	2792 km
High-speed rail travel activity (2019)	60 billion passenger-km
National plans for passenger and freight rail expansion (2020)	<ul> <li></li> </ul>
ø Targets	Open rail market for competition and further improvement
Rail travel activity (2018)	107920 million passenger-km
Rail freight activity (2019)	31829 million ton-km

#### Shared Mobility Services

Bike-sharing systems (2020)	69 systems
Electric scooter services (2020)	7 operators in 12 cities
Carsharing services (2021)	23 services
National legal frameworks for shared mobility (2020)	Yes, on subnational level for electric scooters
Autonomous vehicles in operation or in preparation (2020)	7
Autonomous vehicles strategies (2020)	~

# Fuel Economy

Emission standards for LDVs (2018)	Euro 6
$CO_2$ emissions performance for LDVs (2017)	126 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro VI
Targeted CO <sub>2</sub> emissions performance	59 gCO <sub>2</sub> /km by 2030
Electric vehicles (2019)	226800
Market share of electric vehicles (2019)	2.8%
No. of cities with electric buses (2019)	7
ICE phase-out targets	2040
(7) Renewable Energy	
Biofuel blend mandate (2010)	7.5% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	9.5%
Targeted % of renewable energy	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023
Targeted % of renewable energy	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023
Targeted % of renewable energy           Aviation           Air passengers caried (2019)	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023
Targeted % of renewable energy  Aviation  Air passengers caried (2019)  Air freight activity (2019)	<ul> <li>2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023</li> <li>71.3 million people</li> <li>4522 6 million ton-km</li> </ul>
Targeted % of renewable energy          Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)	<ul> <li>2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023</li> <li>71.3 million people</li> <li>4522.6 million ton-km</li> <li>36 airports</li> </ul>
Targeted % of renewable energy         Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports         (2020)         of which carbon neutral	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023 71.3 million people 4522.6 million ton-km 36 airports 5 airports
Targeted % of renewable energy          Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)         of which carbon neutral	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023 71.3 million people 4522.6 million ton-km 36 airports 5 airports
Targeted % of renewable energy Aviation Air passengers caried (2019) Air freight activity (2019) Carbon-accredited airports (2020) of which carbon neutral  Shipping	<ul> <li>2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023</li> <li>71.3 million people</li> <li>4522.6 million ton-km</li> <li>36 airports</li> <li>5 airports</li> </ul>
Targeted % of renewable energy   Air passengers caried (2019)   Air passengers caried (2019)   Air freight activity (2019)   Carbon-accredited airports (2020)   of which carbon neutral   Shipping   Liner shipping connectivity index (2019)	<ul> <li>2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023</li> <li>71.3 million people</li> <li>4522.6 million ton-km</li> <li>36 airports</li> <li>5 airports</li> <li>72.6</li> </ul>
Targeted % of renewable energy         ✓         Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)         of which carbon neutral         ✓         Shipping         Liner shipping connectivity index (2019)         Container port traffic (2019)	<ul> <li>2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023</li> <li>71.3 million people</li> <li>4522.6 million ton-km</li> <li>36 airports</li> <li>5 airports</li> <li>72.6</li> <li>5871100 TEU</li> </ul>
Targeted % of renewable energy   Air passengers caried (2019)   Air passengers caried (2019)   Air freight activity (2019)   Carbon-accredited airports   (2020)   of which carbon neutral   Shipping   Liner shipping connectivity   index (2019)   Container port traffic (2019)   (2019)	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023 71.3 million people 4522.6 million ton-km 36 airports 5 airports 5 airports 72.6 5871100 TEU
Targeted % of renewable energy         ✓         Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports         (2020)         of which carbon neutral         Image shipping         Container port traffic (2019)         Container port traffic (2019)         Traditional transport infrastructure	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023 71.3 million people 4522.6 million ton-km 36 airports 5 airports 5 airports 72.6 5871100 TEU USD 5.6 billion
Targeted % of renewable energy         ✓ Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports         (2020)         of which carbon neutral         • of which carbon         • of which carbon	2.3% diesel fuel and 3.4% gasoline fuel from advanced biofuels by 2023 71.3 million people 4522.6 million ton-km 36 airports 5 airports 5 airports 72.6 72.6 100 TEU 100 TEU 100 TEU

 Biking and public transport support Infrastructure funding

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ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure







• Vehicle efficiency standards

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	×
Sustainable Urban Mobility Plans (2020)	×
Low Emission Zones (2020)	82 cities
🐜 Walking and Cycling	
National walking stratagios (2020)	~

National walking strategies (2020)	~
Ø Targets	Increase of foot traffic and more shorter ways
National cycling strategies (2020)	~
ø Targets	To make cycling more attractive and safer
Cycling infrastructure in capital (2020)	620 km of separated bikelanes

### **Urban Passenger and Freight Transport**

Bus rapid transit (2020)	31 km in 2 cities
Urban rail (LRT, metro, tram) (2020)	Over 2200 km in 57 cities
Bus rapid transit daily passenger volume (2020)	42000
Rapid Transit to Resident Ratio (2019)	87.9

Passenger and Freight Railways	
Rail network (2019)	33422 km
High-speed rail (2019)	2663 km
High-speed rail travel activity (2019)	33.2 billion passenger-km
National plans for passenger and freight rail expansion (2020)	~
ø Targets	Modernising and maintaining as well as building and expanding the rail network
Rail travel activity (2019)	98000 million passenger-km
Rail freight activity (2019)	113114 million ton-km

#### Shared Mobility Services

$\sim$	
Bike-sharing systems (2020)	106 systems
Electric scooter services (2020)	9 operators in 52 cities
Carsharing services (2021)	1646 services
National legal frameworks for shared mobility (2020)	~
Autonomous vehicles in operation or in preparation (2020)	4
Autonomous vehicles strategies (2020)	~

Fuel Economy	
Emission standards for LDVs (2018)	Euro 6
$CO_2$ emissions performance for LDVs (2017)	140 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro VI
Targeted CO <sub>2</sub> emissions performance	59 gCO <sub>2</sub> /km by 2030
Electric Mobility	
Electric vehicles (2019)	258800
Market share of electric vehicles (2019)	3%
No. of cities with electric buses (2019)	14
ICE phase-out targets	×
(A) Renewable Energy	
Biofuel blend mandate (2019)	10% Biodiesel, 10% Ethanol
Biofuel blend mandate (2019) Renewable energy (biofuels and electricity) share in transport (2018)	10% Biodiesel, 10% Ethanol 6.7%
Biofuel blend mandate (2019) Renewable energy (biofuels and electricity) share in transport (2018) Targeted % of renewable energy	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025
Biofuel blend mandate (2019) Renewable energy (biofuels and electricity) share in transport (2018) Targeted % of renewable energy	10% Biodiesel, 10% Ethanol         6.7%         0.05% advanced biofuels from 2020 and 0.5% by 2025
Biofuel blend mandate (2019) Renewable energy (biofuels and electricity) share in transport (2018) Targeted % of renewable energy	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025
Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy         Aviation         Air passengers caried (2019)	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy         Aviation         Air passengers caried (2019)         Air freight activity (2019)	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025 109.6 million people 7763.6 million ton-km
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy         Image: Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025 109.6 million people 7763.6 million ton-km 5 airports
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy         Image: Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)         of which carbon neutral	10% Biodiesel, 10% Ethanol 6.7% 0.05% advanced biofuels from 2020 and 0.5% by 2025 109.6 million people 7763.6 million ton-km 5 airports x

Shipping	
Liner shipping connectivity index (2019)	82.8
Container port traffic (2019)	19 596 420 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	USD 2.97 billion
Examples • Public t	ransport infrastructure and service support

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#### List of ac

2101 01 01010	
GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure



Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	<ul> <li></li> </ul>
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	<ul> <li></li> </ul>
2019 VNR with transport linkages to SDG 3	



· Public transport integration and expansion Mitigation

Standards for urban mobility planning

Transport infrastructure resilience

Adaptation

#### Sustainable Mobility Planning & Transport Demand Management

Not available
Not available
Not available

#### 🐜 Walking and Cycling

National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Plan
Ø Targets	Goals suggested for improvements in environments to support walking and

Cycling infrastructure in capital (2020)

## 🗣 Urban Passenger and Freight Transport

Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	Not available

#### Passenger and Freight Railways

Rail network (2006)	953 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	×
ø Targets	6-part phase rehabilitation and expansion plan to develop nation-wide railway system
Rail travel activity (2006)	85 million passenger-km
Rail freight activity (2006)	181 million ton-km

#### 👪 Shared Mobility Services

-	
Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

# Demand Management Fuel Economy Emission standards for LDVs (2018) N CO2 emissions performance for LDVs (2017) N Emission standards for HDVs (2018) N Targeted CO, emissions performance N vcling combined in ument for NMT-Planning Electric Mobility Electric vehicles (2019) N Market share of electric vehicles N (2019) N

(2018)

 

 (2019)

 No. of cities with electric buses (2019)
 Not available

 ICE phase-out targets
 ×

 ICE phase-out targets
 Not available

 ICE phase-out targets
 ICE phase-out targets

 ICE phase-out targets
 ICE phase-out targets

 ICE phase-out targets
 ICE phase-out targets

 ICE phase-

Targeted % of renewable energy No

→ Aviation	
Air passengers caried (2019)	0.6 million people
Air freight activity (2019)	Not available
Carbon-accredited airports (2020)	x
of which carbon neutral	×
🚊 Shipping	
Liner shipping connectivity index (2019)	19.8
Container port traffic (2019)	1 100 205 TEU
* COVID-19	

Traditional transport infrastructure Not available Investment Not available Not available Investment

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined cont

- NDC
   Nationally determined contribution

   TEU
   Twenty-foot Equivalent Unit
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals
- WLTP
   Worldwide harmonised light vehicles test procedure



- Expansion of infrastructure
- General shipping improvement
  Electric vehicles
  Biofuels
- Mitigation
  - Emission standards
- Fossil fuel subsidy removal Use of renewable energyExpansion of infrastructure
- .
- Public transport integration and expansion

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	×
Ø Targets	<ul> <li>People-centered urban development</li> <li>Low-carbon transport growth</li> </ul>
Sustainable Urban Mobility Plans (2020)	~
Low Emission Zones (2020)	1 city

#### Nalking and Cycling

National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Planning
ø Targets	No specific modal share targets
Cycling infrastructure in capital (2020)	No separated bikelanes currently, network of 200 km planned

#### **Urban Passenger and Freight Transport**

Bus rapid transit (2020)	228 km in 9 cities
Urban rail (LRT, metro, tram) (2020)	485 km in 11 cities
Bus rapid transit daily passenger volume (2020)	497411
Rapid Transit to Resident Ratio (2019)	4.4

Passenger and Freight Railways		
Rail network (2019)	68155 km	
High-speed rail (2018)	Not available	
High-speed rail travel activity (2018)	Not available	
National plans for passenger and freight rail expansion (2020)	$\checkmark$	
ø Targets	Increase the rail modal share for freight from 27% to 45% by 2030 and achieve net-zero carbon emissions by 2030	
Rail travel activity (2017)	1 161 333 million passenger-km	
Rail freight activity (2017)	654285 million ton-km	

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	30 systems
Electric scooter services (2020)	1 operator in 6 cities
Carsharing services (2021)	58 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 3
$CO_2$ emissions performance for LDVs (2017)	135 gCO₂/km
Emission standards for HDVs (2018)	Euro IV
Targeted $CO_2$ emissions performance	113 gCO <sub>2</sub> /km by 2022
and all of the monthly	
Electric vehicles (2019)	11200
Market share of electric vehicles (2019)	0.1%
No. of cities with electric buses (2019)	12
ICE phase-out targets	×
Renewable Energy	
Biofuel blend mandate (2019)	20% Biodiesel, 10% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	2.4%
Targeted % of renewable energy	Not available
Aviation	

Aviation	
Air passengers caried (2019)	167.5 million people
Air freight activity (2019)	1938.2 million ton-km
Carbon-accredited airports (2020)	8 airports
of which carbon neutral	3 airports

Shipping	
Liner shipping connectivity index (2019)	55.5
Container port traffic (2019)	17 053 200 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available
Examples • Investme	ents in electric buses and charging stations

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#### List of acron

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
CE	Internal combustion engine
.DV	Light-duty vehicle
.RT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
JNFCCC	United Nations Framework Convention on Climate Change
/NR	Voluntary national review of the Sustainable Developiment Goals
NLTP	Worldwide harmonised light vehicles test procedure



### Low Carbon Transport Pathways

Transport strategy identifies climate change	Not available
Long-term strategy submitted to UNFCCC	Not submittee
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	~
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	×
2019 VNR with transport linkages to SDG 7, SDG 8 and SDG	G 9



#### **Transport measures in NDC**

### 👫 Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Ø Targets	<ul><li>People-centered urban development</li><li>Low-carbon transport growth</li></ul>
Sustainable Urban Mobility Plans (2020)	In Development
∅ Targets	<ul> <li>GHG mitigation: 0.9 to 1.7 Mt CO<sub>2</sub>e per year by 2030 (up to 13.9 Mt CO<sub>2</sub>e in total) in pilot cities</li> <li>To leverage financing of EUR 100 million</li> </ul>
Low Emission Zones (2020)	Not available

#### 🐜 Walking and Cycling

National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Planning
Cycling infrastructure in capital (2020)	86 km of separated bikelanes

### 🛱 Urban Passenger and Freight Transport

Bus rapid transit (2020)	207 km in 1 city
Urban rail (LRT, metro, tram) (2020)	220 km in 2 cities
Bus rapid transit daily passenger volume (2020)	370 000
Rapid Transit to Resident Ratio (2019)	7

#### Passenger and Freight Railways Rail network (2018) 5483 km

High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	~
Ø Targets	<ul> <li>10,524 km national railways in 2030 including 3,755 km urban railways</li> <li>Railway share to increase to 7-9% for passenger and 11-13% for freight transport</li> </ul>
Rail travel activity (2018)	16932 million passenger-km
Rail freight activity (2018)	15091 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	5 systems
Electric scooter services (2020)	Not available
Carsharing services (2021)	10 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

# Fuel Economy Emission standards for LDVs (2018) Euro 2 CO<sub>2</sub> emissions performance for 184 gCO<sub>2</sub>/km LDVs (2017) Emission standards for HDVs Targeted CO<sub>2</sub> emissions performance 🛋 Electric Mobility and 5% 25

Shipping	
Liner shipping connectivity index (2019)	44.4
Container port traffic (2019)	14763630 TEU
COVID-19	

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HDV	Heavy-duty vehicle
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LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure

36

Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
0	
Renewable Energy	
Biofuel blend mandate (2019)	30% Biodiesel, 3% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	5.3%
Targeted % of renewable energy	30% biodiesel, 20% ethanol a biofuel in aviation fuel by 20.
<b>Aviation</b>	
Air passengers caried (2019)	91.3 million people
Air freight activity (2019)	981.7 million ton-km
Carbon-accredited airports (2020)	×
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	44.4
Container port traffic (2019)	14763630 TEU
<b>A</b>	
COVID-19	
	Not available
Traditional transport infrastructure investment	



Transport strategy identifies climate change	Not available
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	Not submitted
NDC highlights transport for GHG mitigation	×
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not submitted
Voluntary National Review highlights transport	× 2017 VNR with no transport linkages



Not available

Ê L	Overstaling also a Markelling	- Diamata a C	Turner and Dar	and the second second
G 14	Sustainable Mobility	y Planning &	Transport Den	nand management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

#### 🐜 Walking and Cycling

National walking and cycling strategies (2020)	Not identified on national level but strong ambitions in Teheran
Cycling infrastructure in capital (2020)	550 km of separated bikelanes by 2040

🛱 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	165 km in 3 cities
Urban rail (LRT, metro, tram) (2020)	134 km in 5 cities
Bus rapid transit daily passenger volume (2020)	2135000
Rapid Transit to Resident Ratio (2019)	9.4

Passenger and Freight Railways		
Rail network (2018)	9146 km	
High-speed rail (2018)	Not available	
High-speed rail travel activity (2018)	Not available	
National plans for passenger and freight rail expansion	$\checkmark$	
ø Targets	<ul> <li>By 2025, 5000 km railway network with approximately 6000 km double-tracked,</li> <li>Total capacity for passenger transport to be increased to 160 million,</li> <li>Carrying 220 million tons of cargo,</li> <li>Railway market share in cargo transport to be 30% and 18% for passenger transport</li> </ul>	
Rail travel activity (2018)	15239 million passenger-km	
Rail freight activity (2016)	34859 million ton-km	
Shared Mobility Services		

Shared Mobility Services	
Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 2
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not available
Targeted CO <sub>2</sub> emissions performance	Not available
Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
Renewable Energy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	Not available
Targeted % of renewable energy	Not available
<b>X</b> Aviation	
Air passengers caried (2019)	21.6 million people
Air freight activity (2019)	152.3 million ton-km
Carbon-accredited airports (2020)	×
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	19.8
Container port traffic (2019)	1516900 TEU
COVID-19	
Traditional transport infrastructure	Not available

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure

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### Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	<ul> <li>Image: A start of the start of</li></ul>
1st and updated NDC as European Union	
NDC highlights transport for GHG mitigation	<ul> <li></li> </ul>
Transport mitigation targets in NDC	~
$\rm CO_2$ emissions per kilometre from new passenger cars sold 37.5% on average by 2030 (from 2021 levels), with new va and new large lorries reduced by 30% (from 2019/2020 levels)	d to be reduced by ans reduced by 31%, vels)
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	×



#### Transport measures in NDC

Vehicle efficiency standards

Mitigation

LOW

0

#### 🔠 Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	<ul> <li></li> </ul>
Ø Targets	Required for every city above 100,000     population
Sustainable Urban Mobility Plans (2020)	✓ over 90 SUMPs adopted or approved
ø Targets	Overall objectives to improve air quality and reduce transport GHG emissions
Low Emission Zones (2020)	112 cities

#### 10 Walking and Cycling

National waiking strategies (2020)	Not available
Cycling infrastructure in capital (2020)	225 km of bikelanes

Urban Passenger and Freight Transport		
Bus rapid transit (2020)	Not available	
Urban rail (LRT, metro, tram) (2020)	289 km in 16 cities	
Bus rapid transit daily passenger volume (2020)	Not available	
Rapid Transit to Resident Ratio (2019)	12.7	

Passenger and Freight Railways			
Rail network (2019)	16779 km		
High-speed rail (2018)	3676 km		
High-speed rail travel activity (2018)	15 billion passenger-km		
National plans for passenger and freight rail expansion (2020)	Ŵ		
Ø Targets	<ul> <li>By 2023, Accommodate 70 million more passengers per year,</li> <li>Add more than 700 new train vehicles, the majority freight wagons,</li> <li>Each year, support the removal of 400,000 cars from the road and reduce CO<sub>2</sub> emissions by 600 million kg</li> </ul>		
Rail travel activity (2017)	55493 million passenger-km		
Rail freight activity (2019)	21309 million ton-km		

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	166 systems
Electric scooter services (2020)	8 operators in 17 cities
Carsharing services (2021)	126 services
National legal frameworks for shared mobility (2020)	On subnational level (Milan as example)
Autonomous vehicles in operation or in preparation (2020)	1
Autonomous vehicles strategies (2020)	~

#### Fuel Economy Emission standards for LDVs (2018) Euro 6 CO<sub>2</sub> emissions performance for 124 gCO<sub>2</sub>/km LDVs (2017) Emission standards for HDVs Euro VI (2018) Targeted CO<sub>2</sub> emissions 59 gCO<sub>2</sub>/km by 2030 performance 🛋 Electric Mobility Electric vehicles (2019) 40274 No. of cities with electric buses 9 (2019) × ICE phase-out targets 🚱 Renewable Energy Biofuel blend mandate (2019) Overall 7% Renewable energy (biofuels and 6.3% electricity) share in transport (2018) Targeted % of renewable energy 0.9% advanced biofuels by 2020, 1.85% by 2022 🛪 Aviation Air passengers caried (2019) 27.8 million people Air freight activity (2019) 1345 million ton-km Carbon-accredited airports 14 airports (2020) of which carbon neutral 7 airports 🚊 Shipping Liner shipping connectivity 72.8 index (2019) Container port traffic (2019) 10014210 TEU 🕸 COVID-19 Traditional transport infrastructure investment Clean transport infrastructure USD 0.24 billion investment Examples · Funding to support transport activities · Incentives for the purchase of a new car Local public transport support This fact sheet is part of the SLOCAT List of acronyms Transport and Climate Change Global

mansport and climate change Global	GDP	Gloss-domestic product
Status Report - 2nd edition.	HDV	Heavy-duty vehicle
The information shown is based on	ICE	Internal combustion engine
desk research. Data has been collected	LDV	Light-duty vehicle
to the best knowledge and availability	LRT	Light-rail transit
Lowever, it might not be complete	NDC	Nationally determined contribution
nowever, it might not be complete	TEU	Twenty-foot Equivalent Unit
(Net everile blef is indicated when an	UNFCCC	United Nations Framework Convention on Climate Change
Not available is indicated, when no	VNR	Voluntary national review of the Sustainable Development Goal
information has been retrieved. The	WITP	Worldwide harmonised light vehicles test procedure
content does not represent the opinion		for a man a man a more a signer for house to a proceedars
of the SLOCAT Partnership. Find data		

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Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	~
NDC submitted	1st and Updated NDC
NDC highlights transport for GHG mitigation	~
Transport mitigation targets in NDC	27% below 2013 (163 million $tCO_2$ less by 2030)
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	×



#### **Transport measures in NDC**

- Mitigation General fuel improvement policies
  - · General vehicle improvements
  - General innovations and digitalisation
  - National mobility plans

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â te /	Sustainable Mobility	y Planning	a trans	port Demai	na management

National Urban Mobility Framework (2020)	Č
ø Targets	<ul> <li>Support activities of local governments through grants to develop comprehensive transport strategy</li> </ul>
Sustainable Urban Mobility Plans (2020)	No but Low Carbon City Act
Ø Targets	<ul> <li>Realize compact urban structure</li> <li>Promote measures to address traffic flow</li> <li>Promote the use of public transport</li> </ul>
Low Emission Zones (2020)	1 city
A Second H Second Construction	

#### Walking and Cycling

National walking strategies (2020) Not available

National cycling strategies (2020)

Cycling infrastructure in capital 10 km of separated bikelanes (2020)

۵ā	Urban	Passenger	and Freight	Transport
000 992	Ulball	rassenger	and reight	manaport

Bus rapid transit (2020)	29 km of BRT in 2 cities
Urban rail (LRT, metro, tram) (2020)	Over 1000 km in 26 cities
Bus rapid transit daily passenger volume (2020)	9100
Rapid Transit to Resident Ratio (2019)	18.7

~

#### Passenger and Freight Railways

Rail network (2018)	19123 km
High-speed rail (2018)	2848 km
High-speed rail travel activity (2018)	103.7 billion passenger-km
National plans for passenger and freight rail expansion	~
ø Targets	25% energy consumption reduction of 2014 levels by 2031
Rail travel activity (2018)	437 363 million passenger-km
Rail freight activity (2016)	20117 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	28 systems
Electric scooter services (2020)	1 operator in 2 cities
Carsharing services (2021)	12 services
National legal frameworks for shared mobility (2020)	Yes
Autonomous vehicles in operation or in preparation (2020)	3
Autonomous vehicles strategies (2020)	~

#### Fuel Economy

Emission standards for LDVs (2018)	Euro 5
$CO_2$ emissions performance for LDVs (2017)	144 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro VI
Targeted CO <sub>2</sub> emissions performance	74 gCO <sub>2</sub> /km by 2030

Electric Mobility	
Electric vehicles (2019)	294000
Market share of electric vehicles (2019)	0.9%
No. of cities with electric buses (2019)	5
ICE phase-out targets	2050
🛞 Renewable Energy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	2.7%
Targeted % of renewable energy	Not available
<b>Aviation</b>	
Air passengers caried (2019)	130.2 million people
Air freight activity (2019)	8919.5 million ton-km
Carbon-accredited airports (2020)	4 airports
of which carbon neutral	×

Shipping	
Liner shipping connectivity ndex (2019)	71.2
Container port traffic (2019)	21708860 TEU

泰 COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	USD 0.14 billion
Examples · Local pu	Iblic transport support

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TEU	Twenty-foot Equivalent Unit		
UNFCCC	United Nations Framework Convention on Climate Change		
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Mitigation · General efficiency standards

· Education and training

· Design standards and updates

Transport infrastructure resilience

នំត្រូ ១គ្ន		
National Urban Mobility Framework (2020)	Not available	
Sustainable Urban Mobility Plans (2020)	Pilot project in 1 city	
Low Emission Zones (2020)	Notavailable	

#### Walking and Cycling

National walking and cycling strategies (2020) Cycling infrastructure in capital

Walking and cycling combined in Guidance Document for NMT-Planning

Ge Urban Passenger and Freight Transport		
Bus rapid transit (2020)	Not available	
Urban rail (LRT, metro, tram) (2020)	Not available	
Bus rapid transit daily passenger volume (2020)	Not available	
Rapid Transit to Resident Ratio (2019)	Not available	

Passenger and Freight Railways		
Rail network (2004)	1917 km	
High-speed rail (2018)	Not available	
High-speed rail travel activity (2018)	Not available	
National plans for passenger and freight rail expansion	×	
ø Targets	<ul> <li>Increase the railway capacity to handle 50% of freight cargo (25 Million Tonnes) from the Mombasa Port</li> </ul>	
Rail travel activity (2007)	109 million passenger-km	
Rail freight activity (2004)	1 399 million ton-km	

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

# Fuel Economy CO<sub>2</sub> emissions performance for 173 gCO<sub>2</sub>/km LDVs (2017) Targeted CO, emissions performance 🛋 Electric Mobility No. of cities with electric buses × ICE phase-out targets Renewable Energy electricity) share in transport

<b>X</b> Aviation	
Air passengers caried (2019)	6.4 million people
Air freight activity (2019)	321 million ton-km
Carbon-accredited airports (2020)	(x)
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	17
Container port traffic (2019)	1425000 TEU
COVID-19	
Traditional transport infrastructure investment	Not available

Clean transport infrastructure investment

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine

LDV	Light-duty vehicle
LRT	Light-rail transit

- NDC TEU
  - Nationally determined contribution Twenty-foot Equivalent Unit
- United Nations Framework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals UNFCCC
- VNR WLTP Worldwide harmonised light vehicles test procedure



- General vehicle improvements
- Mitigation · General public transport improvement
  - Expansion of infrastructure
- · General e-mobility
- · General comprehensive planning

- Adaptation Transport planning (1st NDC)
  - Resilient transport technologies (1st NDC)

Transport infrastructure resilience (1st NDC)

Repair & maintenance (1st NDC)

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Few isolated cases on local level
Low Emission Zones (2020)	Not available

#### **Malking and Cycling**

 National walking strategies (2020)
 On subnational level

 National cycling strategies (2020)
 On subnational level

 Cycling infrastructure in capital (2020)
 128 km of bikelanes

#### 🛱 Urban Passenger and Freight Transport

Bus rapid transit (2020)	394 km in 11 cities
Urban rail (LRT, metro, tram) (2020)	282 km in 3 cities
Bus rapid transit daily passenger volume (2020)	2652204
Rapid Transit to Resident Ratio (2019)	10.5

📳 Passenger and Freight Railways	
Rail network (2018)	14388 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	×
Rail travel activity (2018)	1591 miliion passenger-km
Rail freight activity (2019)	89049 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	18 systems
Electric scooter services (2020)	4 operators in 3 cities
Carsharing services (2021)	3 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

#### Emission standards for LDVs (2018) Euro 4 CO<sub>2</sub> emissions performance for 175 gCO<sub>2</sub>/km LDVs (2017) Targeted CO, emissions 🛋 Electric Mobility Electric vehicles (2019) 4700 Market share of electric vehicles 0.1% (2019) No. of cities with electric buses 2 (2019) ICE phase-out targets 2050 🕢 Renewable Energy Biofuel blend mandate (2019) 10% Ethanol Renewable energy (biofuels and 0.2% electricity) share in transport (2018) 🛪 Aviation Air passengers caried (2019) 69.9 million people 1072.5 million ton-km Air freight activity (2019) Carbon-accredited airports 19 airports (2020) × of which carbon neutral 😩 Shipping Liner shipping connectivity 45.5 index (2019) Container port traffic (2019) 7090800 TEU

📄 Fuel Economy

COVID-19		
Traditional transport infras investment	structure	USD 5.35 billion
Clean transport infrastruct investment	ture	Not available
Examples	<ul> <li>Railway of</li> <li>Road cort</li> <li>Cycling r</li> </ul>	construction nstruction investment network investment

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WLTP	Worldwide harmonised light vehicles test procedure



Long-term strategy submitted to UNFCCC	NOUSUDINILLEU
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	<ul> <li>Image: A start of the start of</li></ul>
Transport mitigation targets in NDC	<ul> <li></li> </ul>
Reduce energy consumption of transport by 23% by 2030	
Other non-emission related transport targets in NDC	~
Reduce logistical costs from 20% to 15% by 2019 Create a USD 200 million support fund for urban road transport Implement public transport in major cities and create taxi flee	ort et renewal
Voluntary National Review highlights transport	<
2020 VNR with transport linkages to SDG 3, SDG 4, SDG 7, SI	DG 9, SDG 11 and SDG 13
Transport measures in NDC	



Mitigation Freight transport shifting to rail or inland
Inspection and maintenance

Emission standards

- · Vehicle restrictions

· Financial instruments to support decarbonisation

30

20

10

0

Adaptation

Transport infrastructure resilience

Business-as-Usual Scenario 2020 to 2050

+68%

Low Carbon Scenario 2020 to 2050

-66%

#### Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Sustainable Urban Mobility Plans (2020)	Several cities
Low Emission Zones (2020)	Not available
🐜 Walking and Cycling	

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

BR Urban Passenger and Freight Transport	
Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	50 km in 2 cities
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	4.4

Passenger and Freight Railw	vays
Rail network (2019)	2 295 km
High-speed rail (2018)	200 km
High-speed rail travel activity (2018)	756 million passenger-km
National plans for passenger and freight rail expansion (2020)	<
Ø Targets	Expand current network, through the construction of 2,743 additional km conventional rail and 1,500 km of high-speed lines
Rail travel activity (2018)	4475 million passenger-km
Rail freight activity (2017)	3896 million ton-km
Shared Mobility Services	
Bike-sharing systems (2020)	1 system

Electric scooter services (2020)	Not available
Carsharing services (2021)	1 service
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 4
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not avaiable
Targeted CO <sub>2</sub> emissions performance	Not avaiable
🚓 Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	x
🚱 Renewable Energy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	0.5%
Targeted % of renewable energy	Not available
Aviation	
Air passengers caried (2019)	9.4 million people
Air freight activity (2019)	102.2 million ton-km
Carbon-accredited airports (2020)	2 airports
of which carbon neutral	x
Shipping	
Liner shipping connectivity index (2019)	58.2
Container port traffic (2019)	6040400 TEU
COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure	Not available

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WLTP	Worldwide harmonised light vehicles test procedure

puntry Fact Sheet | Morocco





Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st and Updated NDC
NDC highlights transport for GHG mitigation	×
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	~
2019 VNR with transport linkages to SDG 3, SDG 7, SDG 8, 13	SDG 11 and SDG



Ê.		Diamaina		Demond Management	
a ta	Sustainable Mobility	/ Planning &	Transport	Demand Manageme	ent

National Urban Mobility Framework (2020)	×
Sustainable Urban Mobility Plans (2020)	Auckland developed first such plan in 2006
Low Emission Zones (2020)	Not available
🚧 Walking and Cycling	
National walking and cycling strategies (2020)	Walking and cycling combined in National Land Transport Programme 2018-21
ø Targets	Investments of NZD 390 million between     2018 and 2021 in aurorat of untake on

Cycling infrastructure in capital (2020)

walking and cycling 41 km of separated bikelanes

🛱 Urban Passenger and Freight Transport

Bus rapid transit (2020)	6 km in 1 city
Urban rail (LRT, metro, tram) (2020)	192 km in 2 cities
Bus rapid transit daily passenger volume (2020)	22900
Rapid Transit to Resident Ratio (2019)	4.4

Passenger and Freight Railways	
Rail network (1998)	3908 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	✓
Rail travel activity (1998)	321 million passenger-km
Rail freight activity (2019)	3830 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	8 systems
Electric scooter services (2020)	4 operators in 6 cities
Carsharing services (2021)	7 services
National legal frameworks for shared mobility (2020)	Subnational roadmaps
Autonomous vehicles in operation or in preparation (2020)	1
Autonomous vehicles strategies (2020)	×

Fuel Economy	
Emission standards for LDVs (2018)	Euro 6
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not available
Targeted CO <sub>2</sub> emissions performance	Not available
Electric Mobility	
Electric vehicles (2019)	17700
Market share of electric vehicles (2019)	2.8%
No. of cities with electric buses (2019)	1
ICE phase-out targets	×
🚱 Renewable Energy	
Renewable Energy Biofuel blend mandate (2019)	7% Biodiesel
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)	7% Biodiesel 0.1%
Renewable Energy Biofuel blend mandate (2019) Renewable energy (biofuels and electricity) share in transport (2018) Targeted % of renewable energy	7% Biodiesel 0.1% Not available
<ul> <li>✔ Renewable Energy</li> <li>Biofuel blend mandate (2019)</li> <li>Renewable energy (biofuels and electricity) share in transport (2018)</li> <li>Targeted % of renewable energy</li> <li>✔ Aviation</li> </ul>	7% Biodiesel 0.1% Not available
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy         ✓ Aviation         Air passengers caried (2019)	7% Biodiesel 0.1% Not available 17.8
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy <b>Aviation</b> Air passengers caried (2019)         Air freight activity (2019)	7% Biodiesel 0.1% Not available 17.8 1207.9
Renewable Energy         Biofuel blend mandate (2019)         Renewable energy (biofuels and electricity) share in transport (2018)         Targeted % of renewable energy             Aviation         Air passengers caried (2019)         Air freight activity (2019)         Carbon-accredited airports (2020)	7% Biodiesel       0.1%       Not available       17.8       1207.9       3 airports
Renewable Energy   Biofuel blend mandate (2019)   Renewable energy (biofuels and electricity) share in transport (2018)   Targeted % of renewable energy   * Aviation   Air passengers caried (2019)   Air freight activity (2019)   Carbon-accredited airports (2020)   of which carbon neutral	7% Biodiesel         0.1%         Not available         1207.9         3 airports
Renewable Energy   Biofuel blend mandate (2019)   Renewable energy (biofuels and electricity) share in transport (2018)   Targeted % of renewable energy   * Aviation   Air passengers caried (2019)   Air freight activity (2019)   Carbon-accredited airports (2020)   of which carbon neutral	7% Biodiesel         0.1%         Not available         17.8         1207.9         3 airports         ×

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Container port traffic (2019)

Traditional transport infrastructure

🕸 COVID-19

investment

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine

3444356 TEU

LDV LRT Light-duty vehicle Light-rail transit

- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals

WLTP Worldwide harmonised light vehicles test procedure



Mitigatior

Public transport integration and expansion
General public transport improvement

· General freight efficiency improvements

- System improvements · Road charging and tolls
- LPG/CNG/LNG

 Transport infrastructure resilience Transport system adaptation

Risk assessment

Design standards and updates

Adaptation

$\frac{ah}{ah}$ Sustainable Mobility Planning & Transport Demand Management	
National Urban Mobility Framework (2020)	Not available
Sustainable Urban Mobility Plans (2020)	Not available but Lagos Urban Transport Master Plan defines long-term development
Low Emission Zones (2020)	Not available
Walking and Cycling	
National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Planning
ø Targets	<ul> <li>Increase sustainable transport share to 75% or more</li> <li>Halt the growth of private vehicle kilometers travelled</li> <li>Improve road safety (to 10 fatalities or less per 100,000 people)</li> <li>Ensure air quality at WHO standards and mitigate GHG emissions</li> </ul>
Cycling infrastructure in capital	Not available

କଳ୍ଲି Urban Passenger and Freight Transport	
Bus rapid transit (2020)	22 km in 1 city
Urban rail (LRT, metro, tram) (2020)	42 km in 1 city
Bus rapid transit daily passenger volume (2020)	200 000
Rapid Transit to Resident Ratio (2019)	0.8

Passenger and Freight Railways	
Rail network (2015)	3528 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion	<ul> <li></li> </ul>
Rail travel activity (2005)	174 million passenger-km
Rail freight activity (2005)	77 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	Not available
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 3
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Euro III
Targeted CO <sub>2</sub> emissions performance	Not available
🚓 Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
	Neteralistic
Bioruel blend mandate (2019)	NOT AVAILABLE
Renewable energy (biofuels and electricity) share in transport (2018)	Not available
Targeted % of renewable energy	Not available
→ Aviation	
Air passengers caried (2019)	6.5 million people
Air freight activity (2019)	22 million ton-km
Carbon-accredited airports (2020)	1 airport
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	21.4
Container port traffic (2019)	1484000 TEU
* COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure	Notavailable

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HDV	Heavy-duty vehicle
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LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goals
WLTP	Worldwide harmonised light vehicles test procedure

ntry Fact Sheet | Nigeria



Not available

Transport infrastructure resilience

Adaptation

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ŝ L	Sustainable Mability Planning & Transport Domand Managama
ât	Sustainable Mobility Planning & fransport Demand Manageme

National Urban Mobility Framework (2020)	<ul> <li>Overview of challenges to implement sustainable transport in Peru was reviewed in this report.</li> </ul>
Sustainable Urban Mobility Plans (2020)	In preparation
Low Emission Zones (2020)	Not available

#### 10 Walking and Cycling

National walking strategies (2020) Not

lational cycling strategies (2020) Not a

Cycling infrastructure in capital (2020)

466 km of bikelanes

육철 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	26 km in 1 city
Urban rail (LRT, metro, tram) (2020)	34 km in 1 city
Bus rapid transit daily passenger volume (2020)	704803
Rapid Transit to Resident Ratio (2019)	3.8

#### Passenger and Freight Railways

Rail network (1998)	1639 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	~
ø Targets	New 475 km line, railway tunnel and a 65 km line to shorten railway travel time
Rail travel activity (1998)	127 million passenger-km
Rail freight activity (1998)	599 million ton-km

#### 😣 Shared Mobility Services

Bike-sharing systems (2020)	1 system
Electric scooter services (2020)	Not available
Carsharing services (2021)	Not available
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

#### 📳 Fuel Economy Emission standards for LDVs (2018) Euro 4 CO<sub>2</sub> emissions performance for 187 gCO<sub>2</sub>/km LDVs (2017) Emission standards for HDVs Furo IV (2018) Targeted CO, emissions 🛋 Electric Mobility No. of cities with electric buses 1 (2019) × ICE phase-out targets 🕢 Renewable Energy Biofuel blend mandate (2019) 2% Biodiesel, 8% Ethanol Renewable energy (biofuels and 4.2% electricity) share in transport (2018) Targeted % of renewable energy **Aviation** 18.8 million people Air passengers caried (2019) Air freight activity (2019) 340.3 million ton-km Carbon-accredited airports 2 airports (2020)

 Shipping

 Liner shipping connectivity index (2019)

 38.9

 Container port traffic (2019)

 2330362 TEU

×

COVID-19		
Traditional transport infrast investment	tructure	USD 3.5 billion
Clean transport infrastructu investment	ure	Not available
Examples	<ul> <li>Funds for</li> <li>Road mai</li> <li>Airport m</li> <li>Port investion</li> </ul>	r bicycles intenance aintenance stment

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of which carbon neutral

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LDV	Light-duty vehicle
LRT	Light-rail transit
NDC	Nationally determined contribution
TEU	Twenty-foot Equivalent Unit
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Developiment Goal
WLTP	Worldwide harmonised light vehicles test procedure

ntry Fact Sheet







#### Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	×
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	<ul> <li>Image: A start of the start of</li></ul>
2020 VNR with transport linkages to SDG 2, SDG 3, SDG 7, SDG 11 and SDG 12	SDG 9, SDG 19,



#### **Transport measures in NDC**

0

#### Langement Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	✓
Ø Targets	<ul> <li>Ensure high-quality road and urban electric transport for passenger and freight transport</li> <li>Enable sustainable urban transport, including the development of sustainable urban mobility plans</li> </ul>
Sustainable Urban Mobility Plans (2020)	1 city
Low Emission Zones (2020)	Not available

#### Malking and Cycling

Cycling infrastructure in capital (2020)	850 km of bikelanes
National cycling strategies (2020)	Not available
National walking strategies (2020)	Not available

GR Urban Passenger and Freight Transport	
Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	740 km in 59 cities
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	16.3

Passenger and Freight Railways	
Rail network (2019)	85 494 km
High-speed rail (2018)	600 km
High-speed rail travel activity (2018)	6.2 billion passenger-km
National plans for passenger and freight rail expansion (2020)	×
ø Targets	<ul> <li>To halve CO<sub>2</sub> emission intensity by rail</li> <li>To double the speed of freight rail transport</li> </ul>
Rail travel activity (2018)	129542 million passenger-km
Rail freight activity (2019)	2602493 million ton-km

### 👪 Shared Mobility Services

Bike-sharing systems (2020)	8 systems
Electric scooter services (2020)	1 operator in 12 cities
Carsharing services (2021)	34 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	✓

Fuel Economy	
Emission standards for LDVs (2018)	Euro 6
$CO_2$ emissions performance for LDVs (2017)	192 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro IV
Targeted CO <sub>2</sub> emissions performance	Not available
Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
Renewable Energy	
Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	7%
Targeted % of renewable energy	Not available
<b>Aviation</b>	
Air passengers caried (2019)	115.5 million people
Air freight activity (2019)	6620.7 million ton-km
Carbon-accredited airports (2020)	×
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	38.1
Container port traffic (2019)	5311700 TEU
COVID-19	
Traditional transport infrastructure investment	Not available

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WLTP	Worldwide harmonised light vehicles test procedure



Low Carbon Transport Pathways

Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	<ul> <li>Image: A start of the start of</li></ul>
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	×



**Transport measures in NDC** 

· Public transport integration and expansion

Mitigation · Fuel quality standards · Resilient transport technologies

Adaptation

#### 8 In Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Envisioned
Sustainable Urban Mobility Plans (2020)	Envisioned
Low Emission Zones (2020)	Not available

#### Note: Note:

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

Image: Second state     Image: Second state	
Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	Not available

Passenger and Freight Railways	
Rail network (2018)	2939 km
High-speed rail (2018)	453 km
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	✓
@ Targets	• To construct 9,000 km of railways by 2040
Rail travel activity (2018)	135 million passenger-km
Rail freight activity (2010)	1852 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	2 systems
Electric scooter services (2020)	1 operator in 1 city
Carsharing services (2021)	7 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies	Not available

#### Fuel Economy

Emission standards for LDVs (2018)	Euro 2
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not available
Targeted CO <sub>2</sub> emissions performance	Not available

Electric Mobility	
Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	×
Renewable Energy	
Renewable Energy Biofuel blend mandate (2019)	Not available

Targeted % of renewable energy

Aviation	
Air passengers caried (2019)	39.4 million people
Air freight activity (2019)	1024.1 million ton-km
Carbon-accredited airports (2020)	x
of which carbon neutral	×
Shipping	
Liner shipping connectivity index (2019)	63
Container port traffic (2019)	8905391 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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#### List of acronyms

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine

- Internal combustion engine
- LDV LRT Light-duty vehicle Light-rail transit
- NDC TEU Nationally determined contribution Twenty-foot Equivalent Unit
- UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Voluntary national review of the Sustainable Development Goals
- WLTP Worldwide harmonised light vehicles test procedure



Transport strategy identifies climate change	~
Long-term strategy submitted to UNFCCC	<ul> <li>Image: A start of the start of</li></ul>
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	<ul> <li></li> </ul>
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	•
Achieve 20% share of hybrid and full-electric vehicles by 20	30
Voluntary National Review highlights transport	~
2019 VNR with transport linkages to SDG 7, SDG 8, SDG 9, S	SDG 11 and SDG 13



· General e-mobility

Sustainable Mobility Plannin	ng & Transport Demand Management
National Urban Mobility Framework (2020)	~
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available
🐜 Walking and Cycling	
National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Planning
Cycling infrastructure in capital (2020)	450 km of bikelanes
<b>B</b> Urban Passenger and Freig	ht Transport
Bus rapid transit (2020)	88 km in 3 cities
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	111578
Rapid Transit to Resident Ratio (2019)	3.4
The Design of Sector And Desig	
Passenger and Freight Kall	ways
Rail network (2017)	20953 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	$\sim$
Rail travel activity (2007)	13865 million passenger-km
Rail freight activity (2008)	113342 million ton-km

Bike-sharing systems (2020)	1 system
Electric scooter services (2020)	Not available
Carsharing services (2021)	4 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

Fuel Economy	
Emission standards for LDVs (2018)	Euro 2
$CO_2$ emissions performance for LDVs (2017)	176 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro II
Targeted CO <sub>2</sub> emissions performance	Not available
<b>A</b>	
Electric Mobility	
Electric vehicles (2019)	1200
Market share of electric vehicles (2019)	0.1%
No. of cities with electric buses (2019)	1
ICE phase-out targets	×
Renewable Energy	
Piofuel bland mandate (2010)	E% Pindianal 2% Ethanal
Renewable energy (biofuels and electricity) share in transport (2018)	1.4%
Targeted % of renewable energy	Not available
→ Aviation	
Air passengers caried (2019)	25.7
Air freight activity (2019)	539.4
Carbon-accredited airports (2020)	6 airports
of which carbon neutral	×
Shipping	
	24.6
index (2019)	34.U
Container port traffic (2019)	4769700 TEU
COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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- List of acronyms GDP Gross-domestic product HDV ICE Heavy-duty vehicle Internal combustion engine
- LDV LRT Light-duty vehicle Light-rail transit
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   Voluntary national review of the Sustainable Development Goals
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Country Fact Sheet | South Africa





🕼 Global average 🛛 🚯 Income group average 💿 Regional average



(201)

#### Low Carbon Transport Pathways $( \mathbf{7} )$

0

I ransport strategy identifies climate change	<u> </u>
Long-term strategy submitted to UNFCCC	~
NDC submitted	1st and Updated NDC
NDC highlights transport for GHG mitigation	×
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	~
2019 VNR with transport linkages to SDG 9	-



6

#### **Transport measures in NDC**

0

#### Langement Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	~
Sustainable Urban Mobility Plans (2020)	<u>ی</u>
Low Emission Zones (2020)	14 cities

#### Malking and Cycling

National walking and cycling strategies (2020)	Walking and cycling combined in Cycling and Walking Investment Strategy
ø Targets	<ul> <li>Double cycling activity, achieve 1.6 billion modal shifts from other forms of transport to cycling in 2025</li> <li>Increase walking, achieve 300 modal shifts per person per year from other forms of transport to walking in 2025</li> <li>Increase share of children (aced 5 to 10)</li> </ul>
	that walk to school from 49% in 2014 to 55% in 2025
Cycling infrastructure in capital	2000 km of separated bikelanes

(:	2020)	)			

Urban Passenger and Freight Transport		
Bus rapid transit (2020)	135 km in 7 cities	
Urban rail (LRT, metro, tram) (2020)	Over 800 km in 10 cities	
Bus rapid transit daily passenger volume (2020)	78226	
Rapid Transit to Resident Ratio (2019)	32	

#### Passenger and Freight Railways

Rail network (2018)	16 295 km
High-speed rail (2018)	115 km
High-speed rail travel activity (2018)	4.8 billion passenger-km
National plans for passenger and freight rail expansion	~
ø Targets	Plan includes to improve railways, expand network and improve passenger service
Rail travel activity (2018)	80526 million passenger-km
Rail freight activity (2018)	17206 million ton-km

#### Shared Mobility Services

Bike-sharing systems (2020)	63 systems
Electric scooter services (2020)	7 operators in 14 cities
Carsharing services (2021)	143 services
National legal frameworks for shared mobility (2020)	Yes
Autonomous vehicles in operation or in preparation (2020)	7
Autonomous vehicles strategies (2020)	~

Puer economy		
Emission standards for LDVs (2018)	Euro 6	
CO <sub>2</sub> emissions performance for LDVs (2017)	137 gCO₂/km	
Emission standards for HDVs (2018)	Euro VI	
Targeted CO <sub>2</sub> emissions performance	Not available	
Electric Mobility		
Electric vehicles (2019)	259200	
Market share of electric vehicles (2019)	2.8%	
No. of cities with electric buses (2019)	2	
ICE phase-out targets	2030	
() Renewable Energy		
Biofuel blend mandate (2019)	Overall 7.3%	
Renewable energy (biofuels and electricity) share in transport (2018)	4.1%	
Targeted % of renewable energy	Not available	
<b>Aviation</b>		
Air passengers caried (2019)	142.4 million people	
Air freight activity (2019)	5851.2 million ton-km	
Carbon-accredited airports (2020)	16 airports	
of which carbon neutral	6 airports	
Shipping		
Liner shipping connectivity index (2019)	84.9	
Container port traffic (2019)	10 276 500 TEU	
COVID-19		
Traditional transport infrastructure	USD 140 billion	
investment		
Clean transport infrastructure investment	USD 23.9 billion	
Examples · Local tra EV charg Tube su Cycling Buses at Bus rout Transpo Transpo Zero em Electrict	Local transport settlements     EV charging network investment     Tube support     Cycling and walking package     Buses and trans safety and services fund     Bus route funding     Transport network support     Transforming Cities Fund     Zero emissions buses     Electric vehicles charge points	
This fact sheet is part of the SLOCAT Transport and Climate Change Global Status Report - 2nd edition. The information shown is based on desk research. Data has been collected to the best knowledge and availability. However, it might not be complete or reflect the most recent status. 'Not available' is indicated, when no information has been retrieved. The content does not represent the opinion of the SLOCAT Partnership. Find data	List of acronyms GDP Gross domestic product HDV Heavy-duty vehicle ICE Internal combustion engine LDV Light-duty vehicle LRT Light-rail transit NDC Nationally determined contribution TEU Twenty-foot Equivalent Unit UNFCCC United Nations Framework Convention on Climate Chang VNR Voluntary national review of the Sustainable Developimer WLTP Worldwide harmonised light vehicles test procedure	

sources and indicator glossary here.







(2015

#### Low Carbon Transport Pathways

Transport strategy identifies climate change	×
Long-term strategy submitted to UNFCCC	<ul> <li>Image: A start of the start of</li></ul>
NDC submitted	1st NDC and updated NDC
NDC highlights transport for GHG mitigation	<ul> <li>Image: A start of the start of</li></ul>
Transport mitigation targets in NDC	×
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	Not submitted

· Renewable energy



#### **Transport measures in NDC**

 Vehicle efficiency improvements Mitigation

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- · EV purchase incentives

• EV charging infrastructure

· General infrastructure improvements

<u>ŝ</u> L	Sustainable Mability Dianning 6	Transport Domand Managament
â <u>14</u>	Sustainable Mobility Planning &	Transport Demand Management

National Urban Mobility Framework (2020)	Not available on national level
Sustainable Urban Mobility Plans (2020)	×
Low Emission Zones (2020)	Not available
🐜 Walking and Cycling	
National walking and cycling strategies (2020)	Walking and cycling combined in Strategic Agenda for Pedestrian and Bicycle Transportation
ø Targets	<ul> <li>Development of networks, safety, equity and more walking and cycling trips</li> </ul>

Cycling infrastructure in capital (2020) 151 km of separated bikelanes

🛱 Urban Passenger and Freight Transport	
Bus rapid transit (2020)	438 km in 14 cities
Urban rail (LRT, metro, tram) (2020)	2410 km in 43 cities
Bus rapid transit daily passenger volume (2020)	485276
Rapid Transit to Resident Ratio (2019)	20

Passenger and Freight Railways	
Rail network (2018)	150 462 km
High-speed rail (2018)	Not avaiable
High-speed rail travel activity (2018)	Not avaiable
National plans for passenger and freight rail expansion	✓
Rail travel activity (2018)	31963 million passenger-km
Rail freight activity (2019)	2364144 million ton-km

#### 👪 Shared Mobility Services

Bike-sharing systems (2020)	397 systems
Electric scooter services (2020)	18 operators in 113 cities
Carsharing services (2021)	584 services
National legal frameworks for shared mobility (2020)	~
Autonomous vehicles in operation or in preparation (2020)	55
Autonomous vehicles strategies (2020)	$\checkmark$

#### 

T det Leonomy	
Emission standards for LDVs (2018)	Euro 4
CO <sub>2</sub> emissions performance for LDVs (2017)	198 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro V
Targeted CO <sub>2</sub> emissions performance	108 gCO <sub>2</sub> /km by 2026
Electric Mobility	
Electric vehicles (2019)	1450000
Market share of electric vehicles (2019)	2.1%
No. of cities with electric buses (2019)	129
ICE phase-out targets	×
(A) Renewable Energy	
Biofuel blend mandate (2019)	Ranging from 2 to 10% in some US states
Renewable energy (biofuels and electricity) share in transport (2018)	6%
Targeted % of renewable energy	Not available

<b>Aviation</b>	
Air passengers caried (2019)	926.7 million people
Air freight activity (2019)	42498.3 million ton-km
Carbon-accredited airports (2020)	30 airports
of which carbon neutral	1 airport
Shipping	

Liner shipping connectivity index (2019)	90
Container port traffic (2019)	55 5 18 880 TEU

COVID-19	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

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#### List of acronyms

GDP	Gross-domestic product
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- Internal combustion engine
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  - Light-duty vehicle Light-rail transit
- Nationally determined contribution Twenty-foot Equivalent Unit NDC TEU
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## **Annex: Methodological Note**

#### Data usage

#### Time period for data:

The report strives to utilise the most recent publicly available data and information just prior to the time of publication (as of 31 May 2021). The figures in the report were developed between September and December 2020 using the most recent data available.

#### Secondary data:

SLOCAT relies on secondary data and information collected and provided by SLOCAT partners and other entities and does not make use of any internal modelling tools.

#### Data on sustainable mobility: A call to action

The report benefits directly from data collected by a wide range of stakeholders working in different areas of transport.

Data are important for providing a comprehensive picture of the status of sustainable, low carbon transport and are essential for both policy and investment decision making. In these times of change, it is critical to upgrade data and policy collection and interpretation capacities to better understand progress and the hurdles that must be addressed.

The data limitations mentioned below are not new. Obtaining regular, reliable and public data across regions and transport modes remains an outstanding issue. When an increasing number of stakeholders are collecting data and policy information, more and better open-access data and capacity building efforts for data interpretation are supported by many multi-stakeholder partnerships in the sustainable, low carbon movement.

If you share our passion for open-access data and knowledge towards greater impact on policy and investment decision making worldwide and/or would like to contribute data or knowledge to our collective efforts on this report, **please reach out to the research team in the SLOCAT Secretariat at tccgsr@slocatpartnership.org**.

#### Specific data used in this report

#### Data on emissions

The data in this edition of the report point to the direct carbon emissions from transport activity; they do not cover the indirect emissions and land-use impacts associated with certain modes of transport. The report primarily utilises  $CO_2$  emission data compiled in the Emissions Database for Global Atmospheric Research (EDGAR) from the Joint Research Centre of the European Commission, as this represents the most recent, comprehensive dataset on transport  $CO_2$  emissions. However, this global dataset does not convey in full detail the unique situations of individual countries. EDGAR provides estimates for fossil CO<sub>2</sub> emissions from all anthropogenic activities with the exception of land use, land-use change, forestry and the large-scale burning of biomass. The main activities covered are CO<sub>2</sub> emissions emitted by the power sector (i.e., power and heat generation plants), by other industrial combustion (i.e., combustion for industrial manufacturing and fuel production) and by buildings and other activities such as industrial process emissions, agricultural soils and waste. Transport activities covered within EDGAR include road transport, non-road transport, domestic aviation, and inland waterways on a country level, as well as international aviation and shipping.<sup>1</sup>

For the world, regions and countries, the  $CO_2$  emission data (provided by EDGAR) span through 2019. In a few places in the report,  $CO_2$  data for 2020 are shown to illustrate the impact of the COVID-19 pandemic; however, these data are based on a different methodology than the EDGAR dataset and should not be compared directly with the data from previous years.

The latest  $CO_2$  emission data for individual transport modes are for 2018 and have been compiled only at the global level. For passenger and freight transport, the data on global  $CO_2$  emissions are for 2017, as this is the latest year with robust data. Data on passenger activity (passenger-kilometres) and freight activity (tonne-kilometres) – provided mainly in the country fact sheets – are based on the latest available year, as indicated in the report analysis.

Information on greenhouse gas emissions – provided in  $CO_2$  equivalent  $(CO_{2eq})$  – include not only  $CO_2$  but also methane, nitrous oxide, and industrial gases such as hydrofluorocarbons, perfluorocarbons, sulphur hexafluoride and nitrogen trifluoride.<sup>2</sup> These data are less up-to-date. As of 31 May 2021, data on greenhouse gas emissions were not readily available for the period 2019-2020. In some cases, additional data sources were used to provide detailed information about other climate pollutants besides  $CO_2$ .

All data on  $CO_2$  and other greenhouse gas emissions, as well as  $CO_{2eqr}$  are provided in metric tonnes.

Methodological Note

#### Data on car ownership

Information on car ownership rates is based on a global dataset from the International Organization of Motor Vehicle Manufacturers (OICA), with the latest release (as of 31 May 2021) dating from 2015.<sup>3</sup> Although newer information is available for some individual countries, using these data would hinder accurate global comparisons. Data on passenger and commercial vehicle sales were available only up to 2019.

#### Policy landscape data

The policy-related information presented in this report is not intended to be comprehensive. The data for the policy landscape indicators provided in Section 3 were gathered through desk research unless otherwise indicated. Barriers to accessing such information include language and limited availability of information through online media (e.g., websites, press releases and news articles).

#### Data in country fact sheets

Information in the fact sheets is based on desk research and on contributions from the national focal points. The data were collected to the best of the authors' knowledge and based on data availability, and thus may not be complete or show the most recent status. When no information was available for a given indicator, the term "Not available" is used.

#### Data gaps

Major data gaps exist in areas where there is no globally accepted data collection methodology. For example, the mapping of cycling and walking infrastructure is not currently done in all regions. Also, the modal share can be surveyed through different methods, leading to inconsistencies in available data. In addition, data on paratransit (informal transport), a predominant form of transport in many parts of the world, are largely lacking. This results in an incomplete picture of the impact of transport on climate change and sustainable development.

#### Methodological approach

#### **Countries and regions**

The report follows the M49 Standard of the United Nations Statistics Division.<sup>4</sup> In total, 196 countries have official United Nations membership and are also party to the United Nations Framework Convention on Climate Change. The available data have been put in a common structure for the United Nations member countries, regions and income groups to enable a consistent assessment. Income groups are based on the World Bank's classification of 2019.<sup>5</sup>

#### **Economic calculations**

The per capita and gross domestic product (GDP) calculations are based on the United Nations World Population Prospects 2019 and on World Bank GDP data using constant 2010 USD.<sup>6</sup>

#### Spatial and temporal scales

The geographic scale (global, national, city-level, etc.) as well as time scale (annual, monthly, daily) used in this report depends largely on the available dataset, as noted in the relevant figures and text. The detailed data forming the basis of the calculations and analysis are provided in the SLOCAT Transport Knowledge Base.<sup>7</sup>

#### Criteria for selection

The report covers policies, targets, emission reductions (achieved or envisioned) and market measures. To merit inclusion in the analysis, the policies, projects and trends must have been announced or completed between 2018 and 2020. Significant developments from January through May 2021 were included when deemed relevant, with the understanding that the next edition of the *Transport and Climate Change Global Status Report* will cover a period starting in 2021.

#### Pre- and post-COVID-19 pandemic trends

The year 2020 was pivotal for the world, and the COVID-19 pandemic has had substantial impacts on many of the transport trends monitored in this report. This edition attempts to differentiate between long-term trends and impacts due to the pandemic. To the extent possible, the analysis notes "pre-pandemic" (up to the end of 2019 or latest by February 2020) and "during pandemic" trends (starting in March 2020 until the end of 2020), as in some cases the pandemic led to reversals in long-term trends, at least for a specific period of time. In each section, a box describes the impacts that the pandemic has had on specific regions and sub-sectors.

#### Assembling the report

#### **Global Strategy Team**

This edition of the report was guided by a global strategy team consisting of 20 experts in the field who provided inputs over the span of six meetings between September 2019 and October 2020. Additionally, small group consultations were organised in February 2021, following the peer review process.

#### Authors and contributors

The report was collaboratively drafted by 22 authors and contributors from 16 organisations, led by the SLOCAT Secretariat. This includes additions and high-level inputs from the copy editor and from the special advisor who also co-authored the Executive Summary. Authors researched and compiled relevant facts and figures for the five sections of the report, including the Focus Features, with supporting review and inputs from several other organisations.

**Peer review:** A peer review process was carried out from 18 December 2020 to 20 January 2021 with 1,700 comments received from 74 reviewers. Each comment was individually reviewed by the SLOCAT Secretariat and considered in finalising the report.

**National focal points:** The report benefited from the contributions of voluntary national focal points, or experts from various regions and countries who have been essential to overcome language and information barriers. A public call for participation to provide information on policies and data resulted in several hundred initial registrations. Out of these registrations, 78 national focal points provided inputs through a first survey from 24 January to 3 February 2020; and through a second survey (focused on the country fact sheets) from 6 to 30 August 2020. All national focal points that contributed to the surveys are listed in the Acknowledgements.

# **Endnotes**

#### Annex: Methodological Note

- M. Crippa et al. (2020), Fossil CO2 Emissions of All World Countries, JRC Science for Policy Report, Publications Office of the European Union, Luxembourg, https:// ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/fossil-co2-emissions-all-world-countries-2020-report.
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- 3 International Organization of Motor Vehicle Manufacturers (OICA), "Definitions", https://www.oica.net/wp-content/uploads/DEFINITIONS-VEHICLE-IN-USE1.pdf (accessed 20 May 2021).
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- 7 SLOCAT (2021), "Transport Knowledge Base", https://slocat.net/our-work/knowledge-and-research/trakb (accessed 20 May 2021).



Tracking Trends in a Time of Change: The Need for Radical Action Towards Sustainable Transport Decarbonisation

## SLOCAT Transport and Climate Change Global Status Report 2<sup>nd</sup> Edition

#### This report should be cited as:

SLOCAT (2021), Tracking Trends in a Time of Change: The Need for Radical Action Towards Sustainable Transport Decarbonisation, Transport and Climate Change Global Status Report - 2nd edition, www.tcc-gsr.com.

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The development of this report was led by Maruxa Cardama, Angel Cortez, Nicolas Cruz, Angela Enriquez, Emily Hosek, Karl Peet, Nikola Medimorec, Arturo Steinvorth and Alice Yiu from the secretariat of the SLOCAT Partnership.

For a full list of acknowledgements, please visit the the online page here.

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