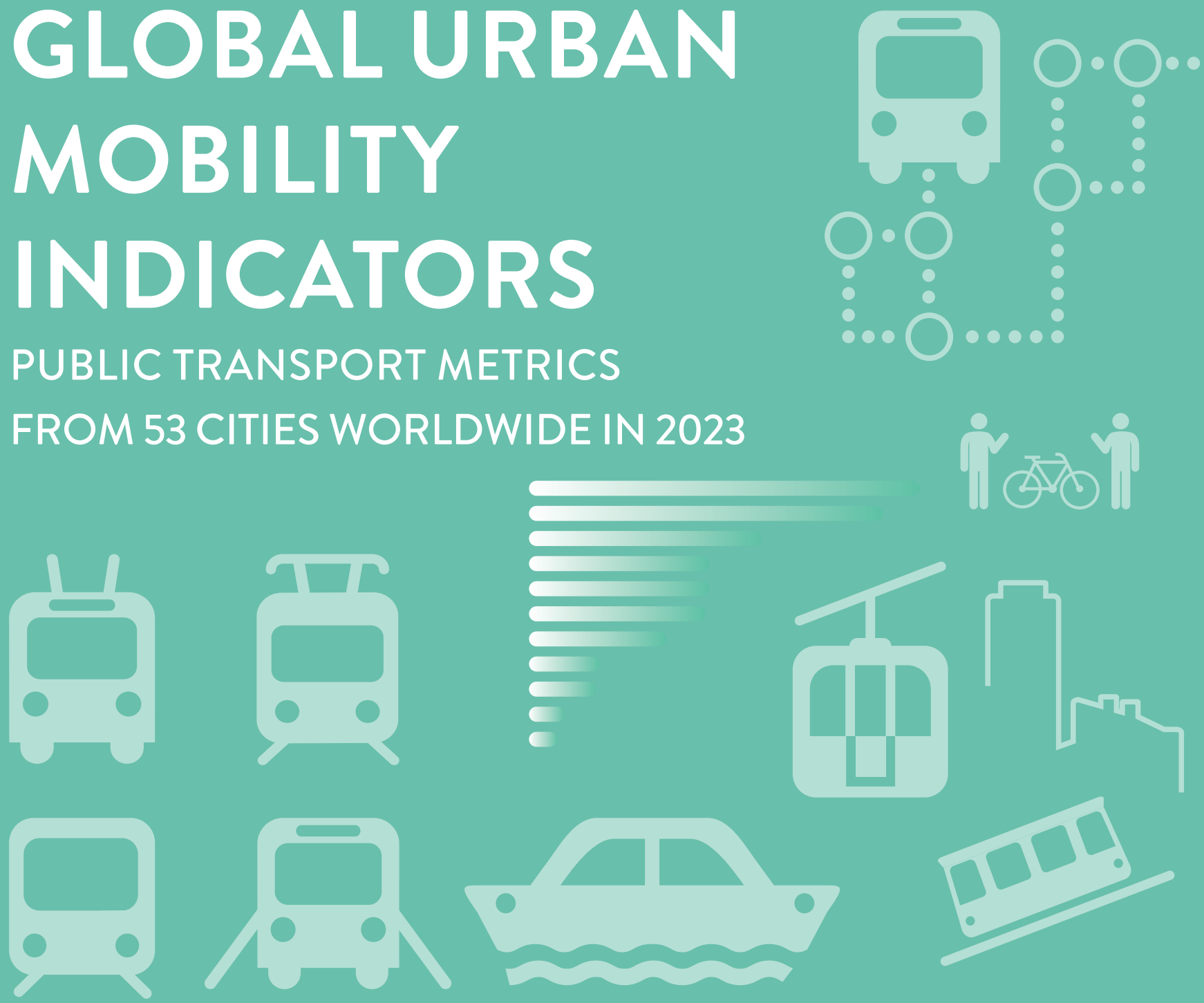
UITP

ADVANCING PUBLIC TRANSPORT

GLOBAL URBAN MOBILITY INDICATORS

PUBLIC TRANSPORT METRICS FROM 53 CITIES WORLDWIDE IN 2023



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INTRODUCTION

The Global Urban Mobility Indicators project (GUMI) by UITP compiles annual data to present a snapshot of urban mobility in major cities around the globe and allows for a comparative analysis of available services and global trends. This report is updated annually using the most recent statistics from mobility providers and public sources. The annual reference for all data in this second edition is 2023 (exceptions are clearly marked).

GUMI includes 33 indicators, both quantitative and qualitative. They cover essential operational and infrastructural metrics for traditional public transport modes, as well as indicators depicting the sustainable urban mobility landscape. Selected indicators are collected for 53 cities worldwide.

The report consists of two main sections:

1. **The Benchmarking section** includes 11 visual charts comparing the cities across the public transport supply and demand;
2. **The City Factsheets** showcase the full list of indicators for each city, tailored to the available mobility services.

Compared to the first edition, GUMI 2023 retains the same overall structure while introducing several enhancements.

Seven new cities were added to expand the geographic coverage of the project and ensure broader representation of UITP regions. The set of indicators has also been refined with more available metrics for bus, metro and LRT systems. Demand-Responsive Transit and cableways solutions are now captured for each city.

METHODOLOGY

The GUMI report is based on desk research, with figures collected from public sources such as annual reports or official statistical websites. Only when data are unavailable or not sufficiently clear, additional information are requested to the relevant operators and authorities.

The 53 cities covered by this report were selected considering

- The presence of public transport and urban mobility systems;
- The availability of online sources and primary contacts;
- The geographical coverage.

The list of cities included in the GUMI project does not claim to be exhaustive of the global urban mobility landscape but aims to represent a selection of major public transport networks worldwide. The intention is to increase the global reach of the report gradually, adding new cities as time goes on.

The list of 33 indicators is based on the experience of the periodic UITP statistics exercises, where key metrics are collected to allow comparison across cities worldwide in terms of operational aspects, available infrastructure, fleets, and ridership.

The quantitative indicators cover seven transport modes (metro, light-rail and tram, bus, trolleybus, bus rapid transit, paratransit and taxi), although the number of indicators assessed per mode differs. In addition, qualitative indicators aim to give an overview of the urban mobility landscape, looking at the availability of waterborne services, on-demand and shared mobility services, cableways and digital transit services.

To ensure the comparability of the metrics across cities, the absolute values have been normalised based on population size or public transport network length.

The “Definitions” section (pg. 72) provides the full list of indicators and transportation modes covered by the report, together with their description.

Regarding the definition of a 'city', GUMI adopts the definition of 'urban agglomeration' provided by the United Nations, and the related population dataset. An Urban Agglomeration is considered as *"a type of urban settlement defined by the de facto population contained within the contours of a contiguous territory inhabited at urban density levels without regard to administrative boundaries. It usually incorporates the population in a city or town plus that in the suburban areas lying outside of but being adjacent to the city boundaries*[1]*."*

While this solution offers advantages, such as considering the number of inhabitants living adjacent to the main city and using its public transport services, it is not without limitations. The fact that the urban agglomeration, as defined by the United Nations, doesn't always correspond to the administrative dimension or the area served by the Transport Authority or Public Transport Operator, might result in normalising the collected data by a larger or smaller population and thus affecting the comparability of the indicators across the 53 cities. Typically, when cities attract large flows of commuters and visitors coming from outside the urban agglomeration, the metrics normalised by the inhabitants of the urban agglomeration result in higher values in comparison to cities similar in mobility supply and demand.

Since data are collected from a variety of sources, which may use different methodologies, inconsistencies or errors in the data may still be present despite best efforts to ensure accuracy.

In particular, for road transportation modes, i.e. bus, BRT, and trolleybus multiple organisations often operate different services, sometimes extending beyond the urban agglomeration. In these cases, the best available source was considered, focusing only on operators running services within the urban agglomeration area.

Suburban railway systems are not in the scope of the GUMI Report. The heterogeneity of suburban rail solutions across worldwide regions, in terms of service characteristics, urban coverage, and operational frameworks, requires a different methodological approach from the present project to avoid misleading conclusions.

Aware of these difficulties, the second edition of GUMI does not achieve complete data coverage for the 53 cities. Where the relevant data for the calculation of the indicators were not found or were not sufficiently corroborated, cities were excluded from the benchmarking section. In the city factsheet section, dedicated footnotes have been added in case of partial information.

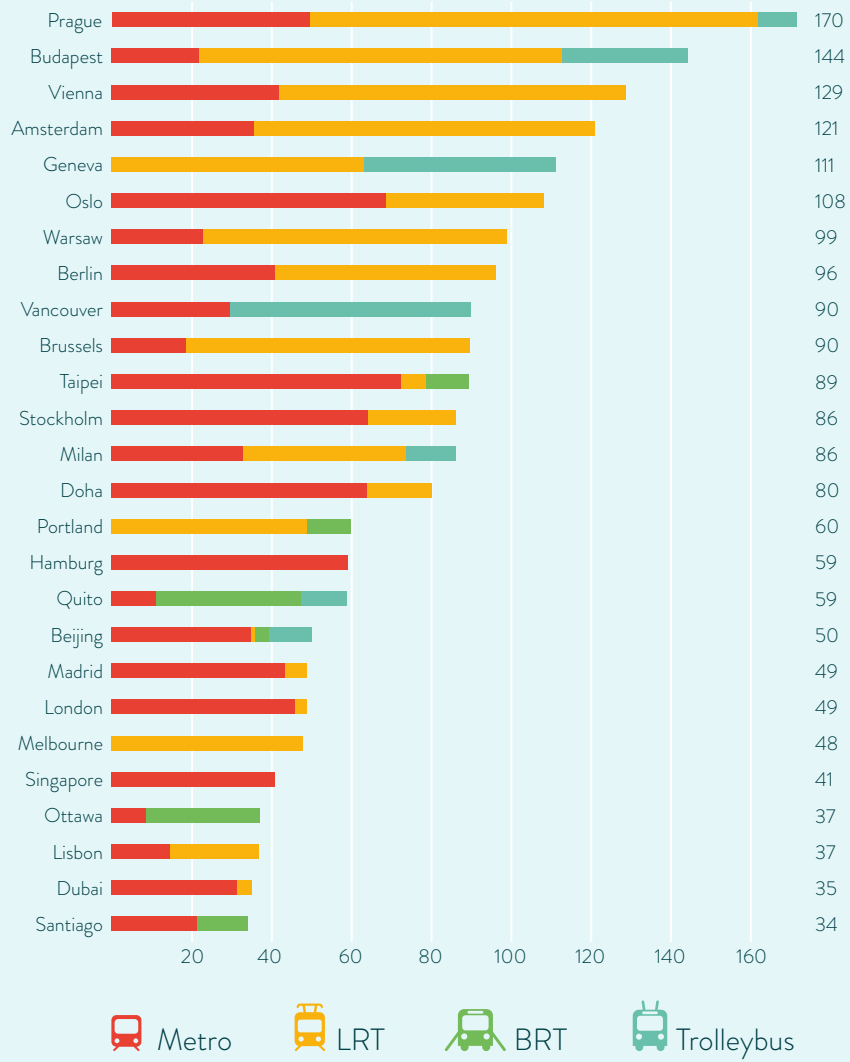
For an overview of the data collected for each city, please refer to the Sources section at page 79.

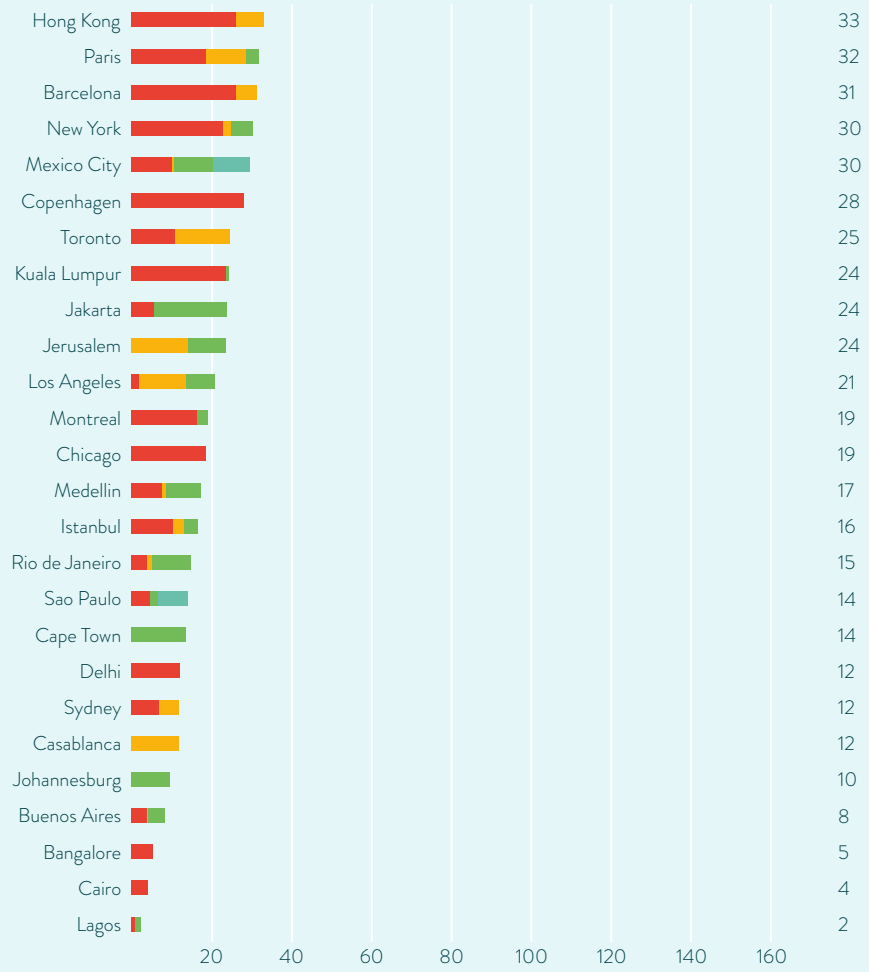
1 United Nations, Department of Economic and Social Affairs, Population Division (2018). World Urbanization Prospects: The 2018 Revision


BENCHMARKING

PUBLIC TRANSPORT NETWORK LENGTH

Km/Million inhabitants — 2023

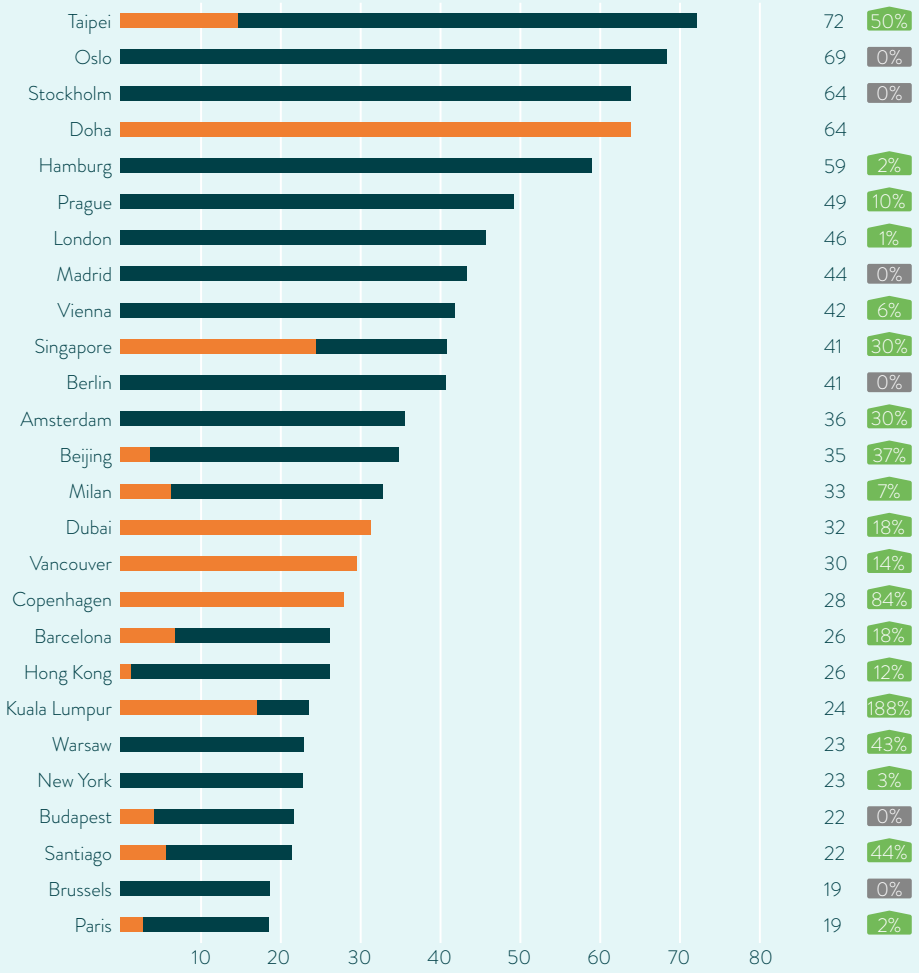


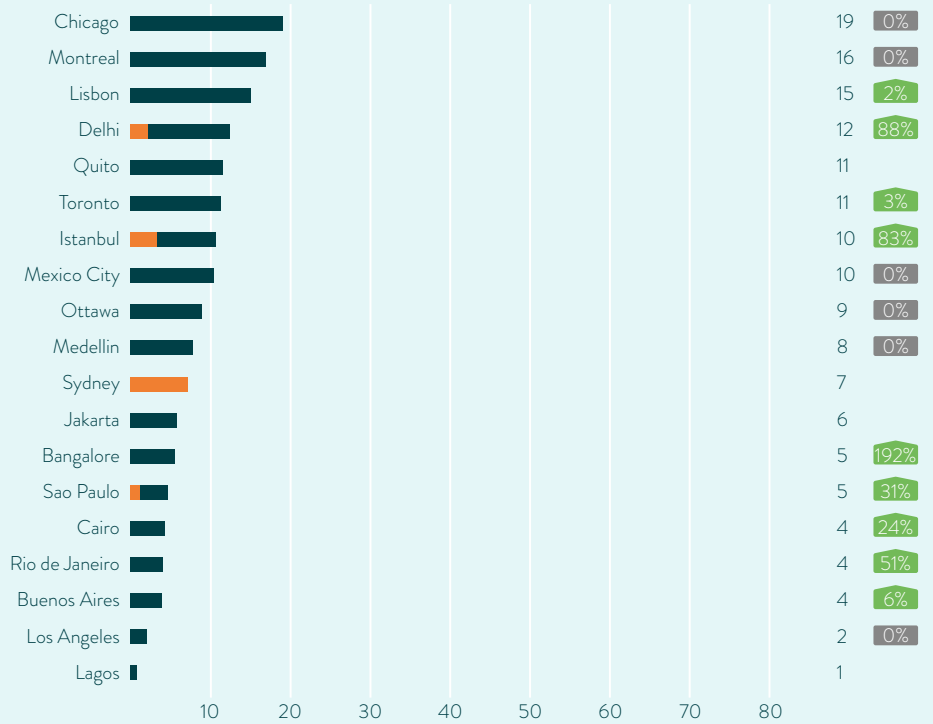


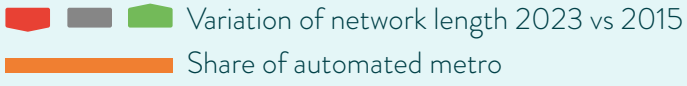
The report looks at the length of dedicated public transport infrastructure in kilometres per million inhabitants. 'Dedicated' implies that a specific lane is reserved for public transport use. This includes metro, light rail and tram (LRT), bus rapid transit (BRT) and trolleybus. In the case of tram and trolleybus a mixed use network is also counted.

METRO NETWORK LENGTH

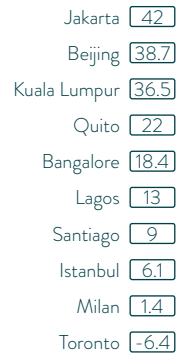
Km/Million inhabitants — 2023





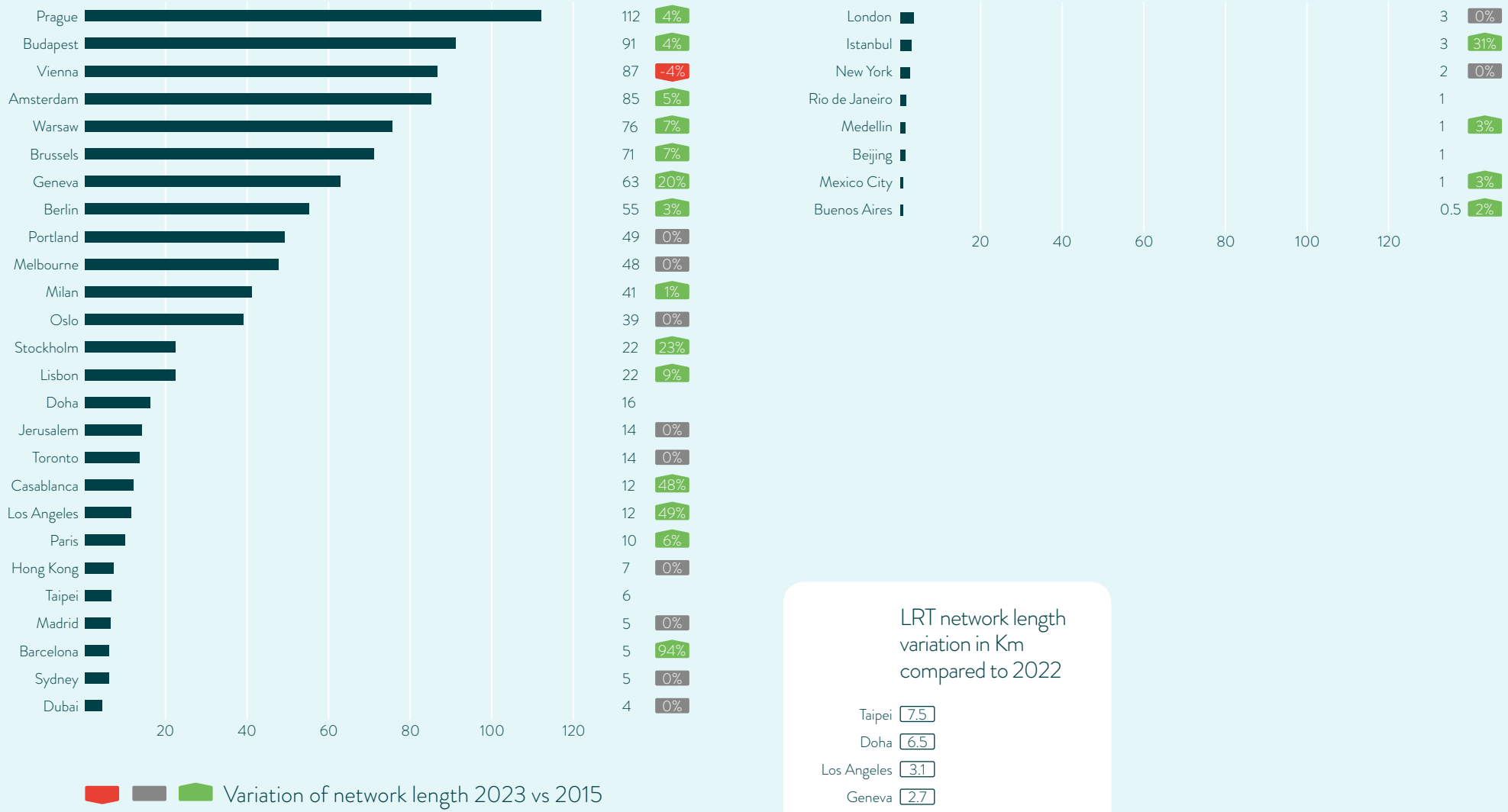


Metro network length variation in Km compared to 2022

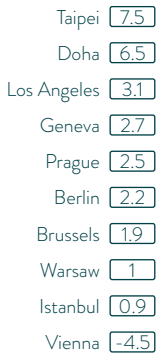


LRT NETWORK LENGTH

Km/Million inhabitants — 2023

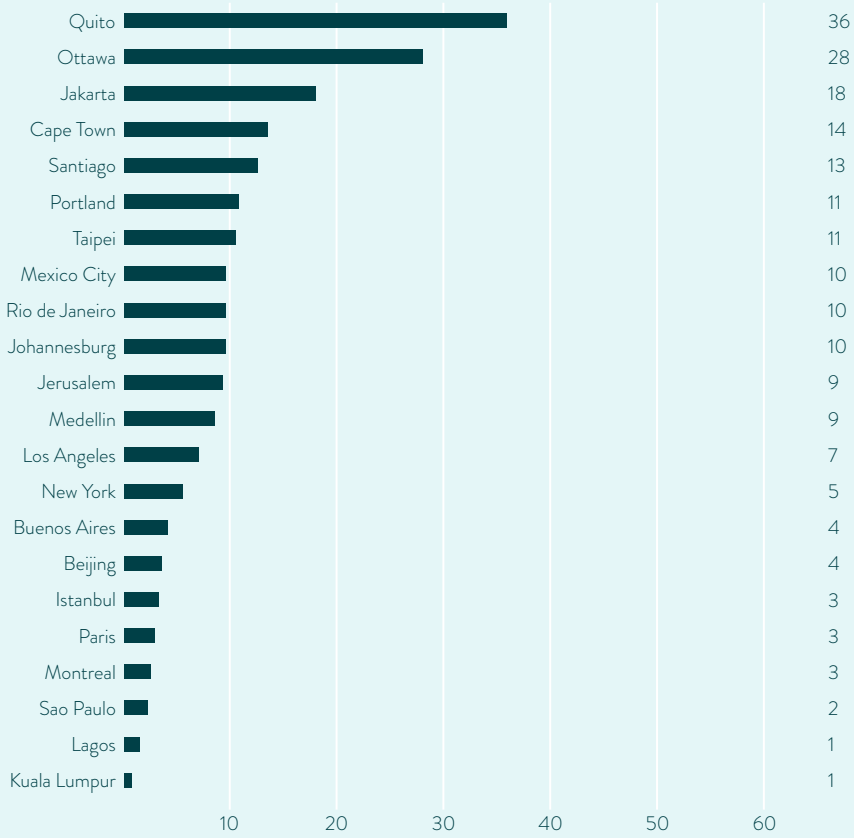


LRT network length variation in Km compared to 2022

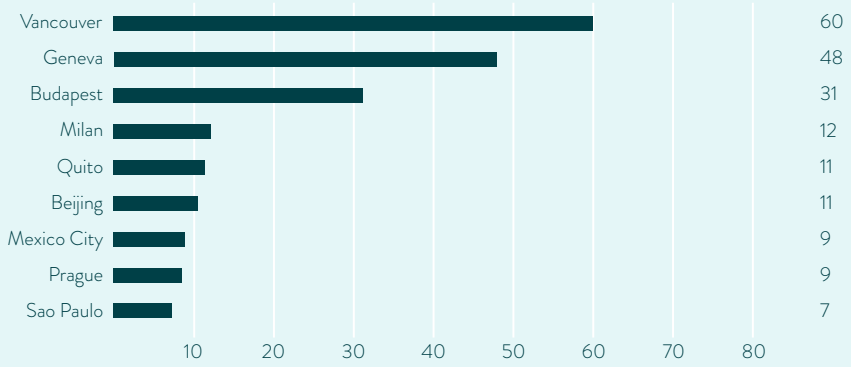


BRT AND TROLLEYBUS NETWORK LENGTH

BRT Km/Million inhabitants — 2023

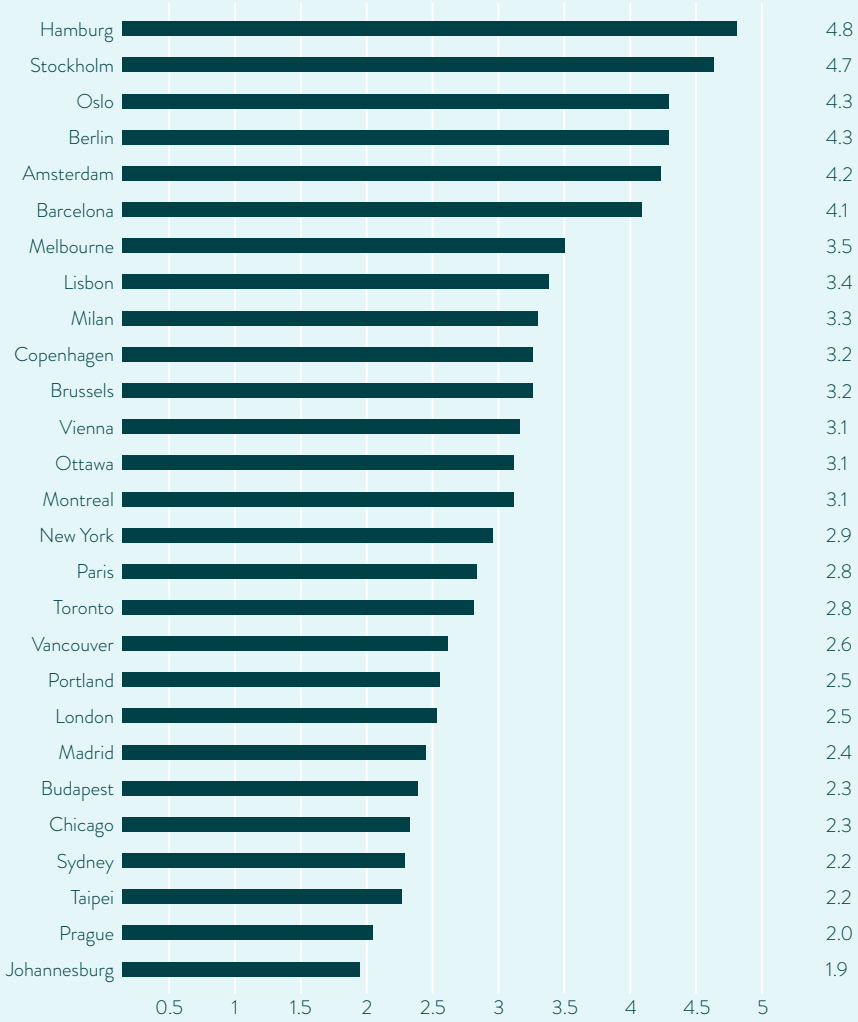


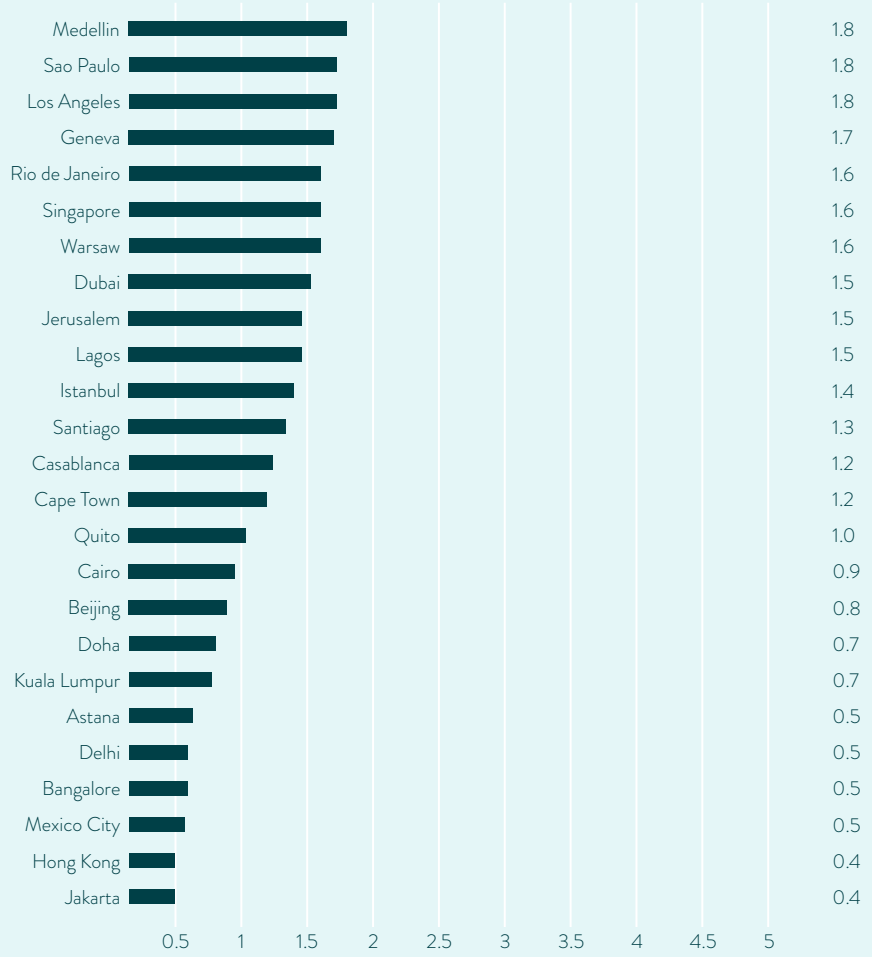
Trolleybus Km/Million inhabitants — 2023



PUBLIC TRANSPORT FARE

Cost of a 1-trip PT ticket (PPP-adjusted USD) — 2023

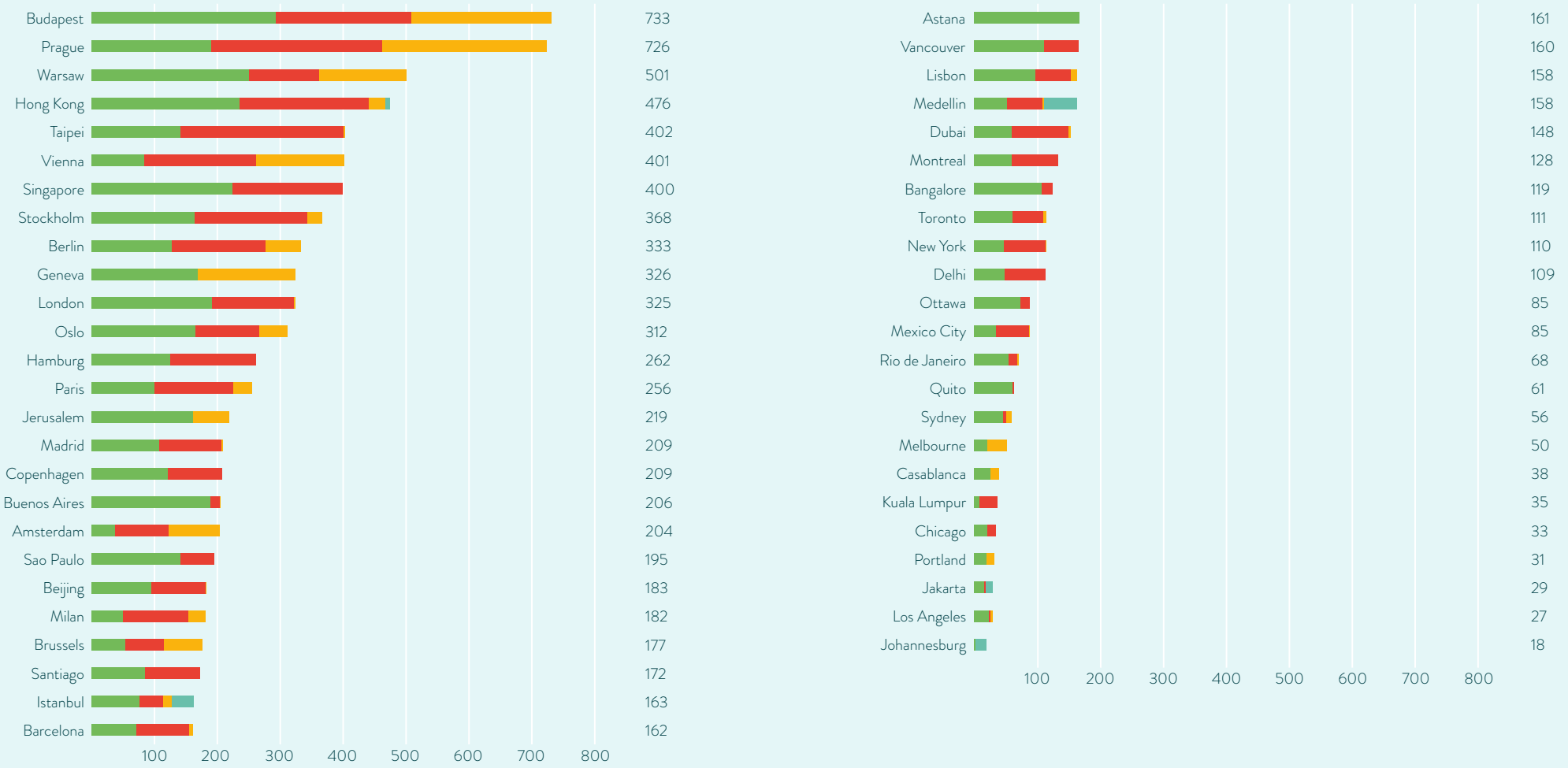




The report collects the minimum fare for a single public transport trip, regardless of mode. For distance-based systems, the base fare for the central zone is used. Local fares have been adjusted using the Purchasing Power Parity (PPP) conversion factor from the World Bank, allowing for a consistent analysis of public transport affordability on a global scale.

PUBLIC TRANSPORT RIDERSHIP

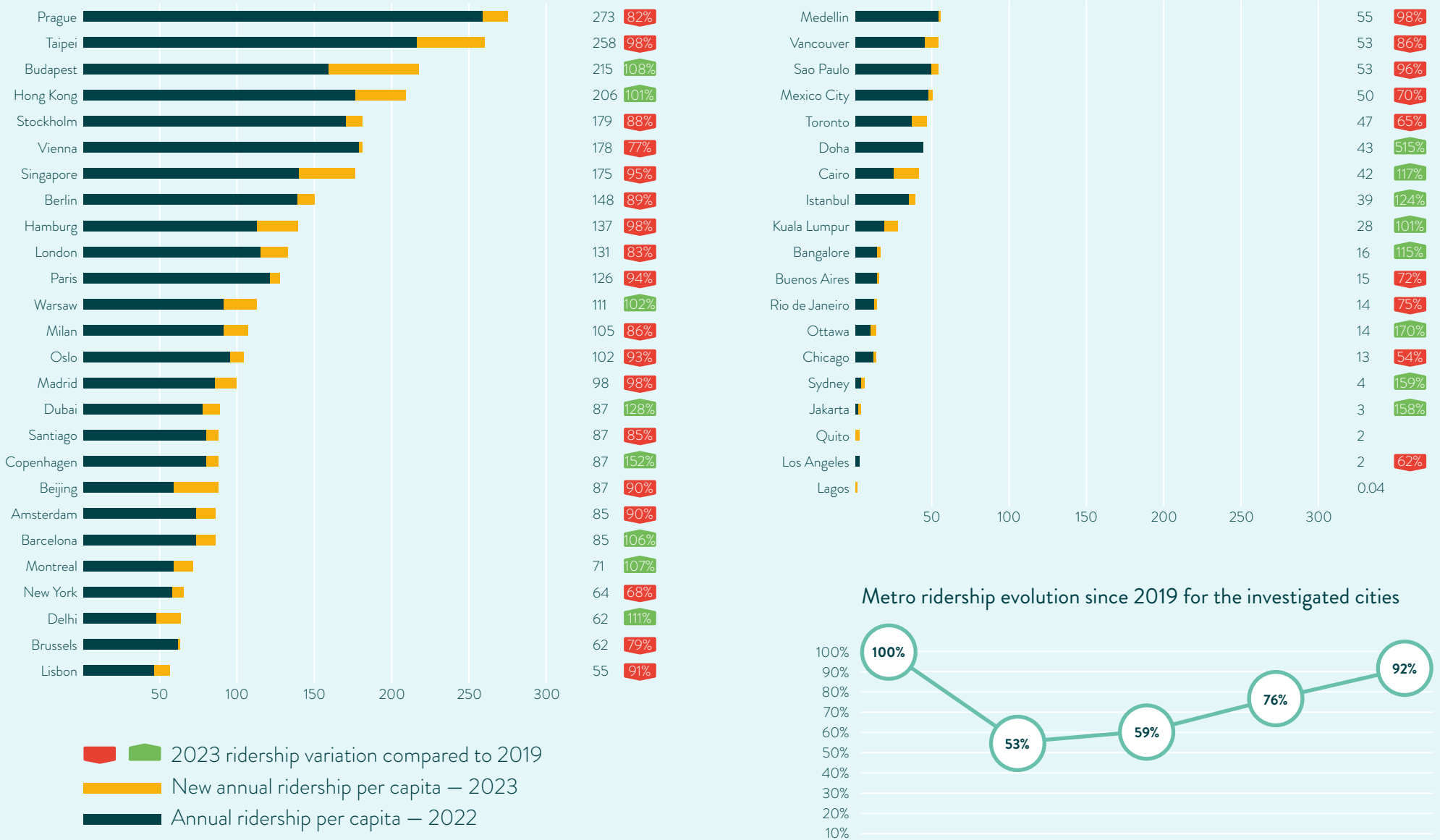
Annual ridership per capita — 2023



The chart shows the demand of public transport in annual ridership per capita. Bus, BRT and Trolleybus have been aggregated in the category “Bus-based modes”. Ridership figures have been reported as estimated by the local operators/authorities and according to their own calculation methodology.

METRO RIDERSHIP

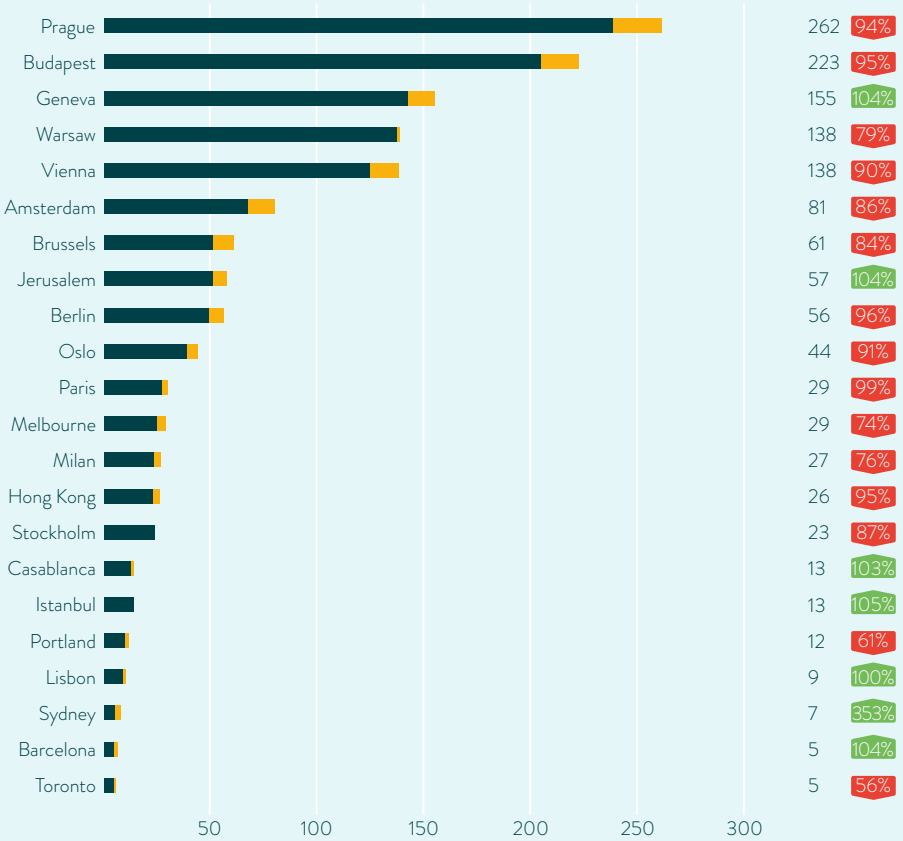
Annual ridership per capita — 2023

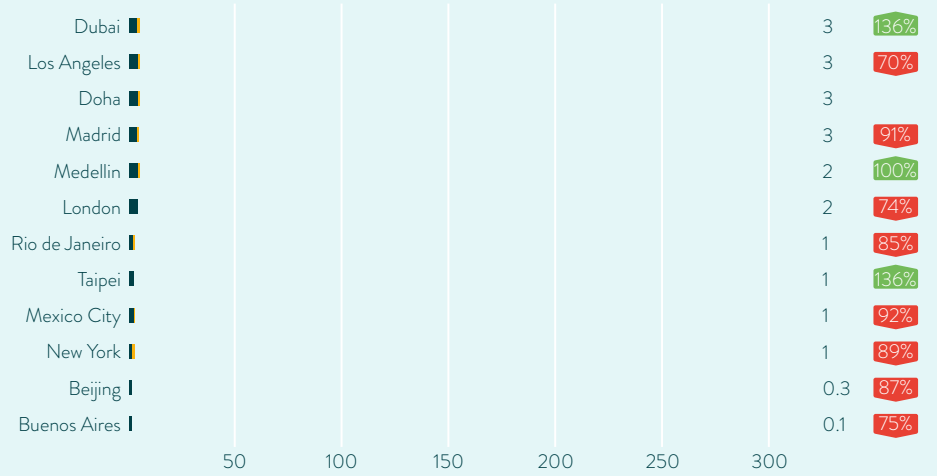


Metro ridership evolution since 2019 for the investigated cities

LRT RIDERSHIP

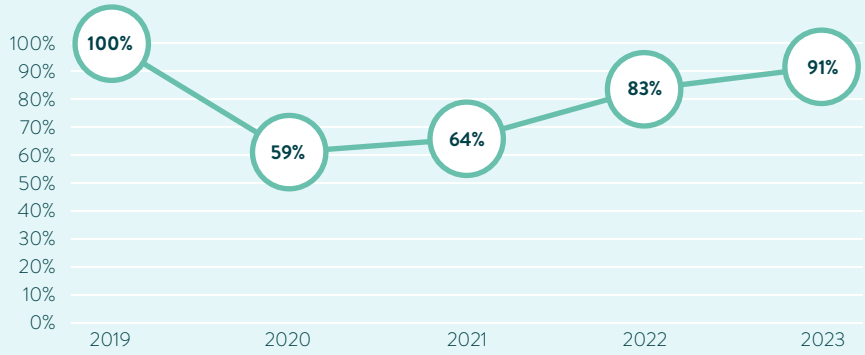
Annual ridership per capita — 2023





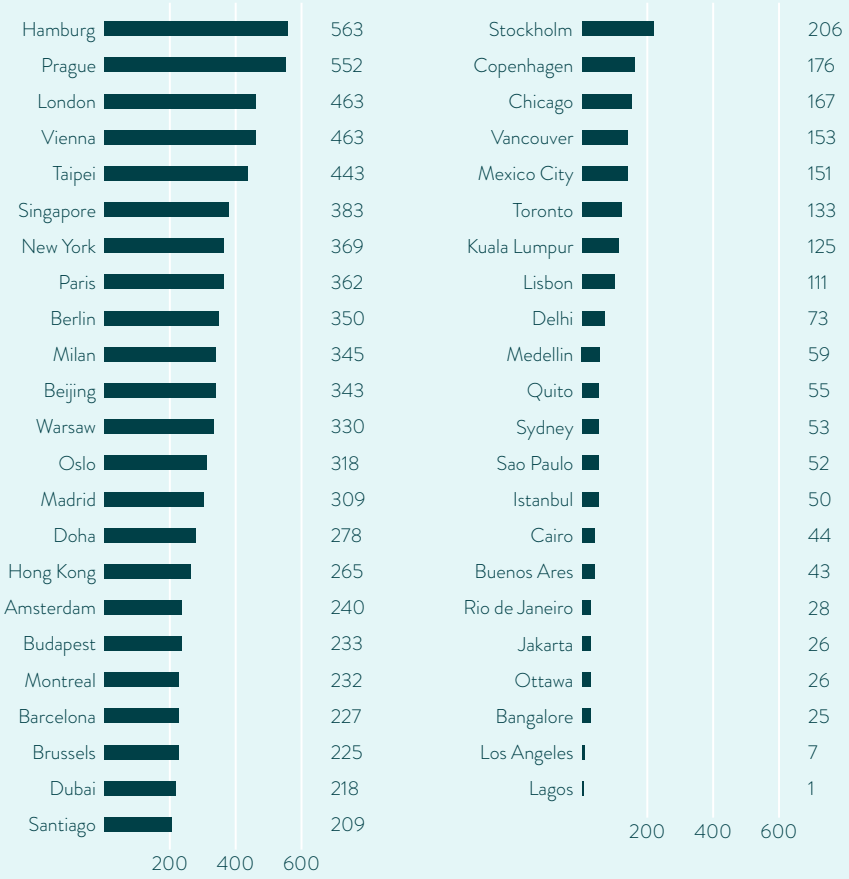
2023 ridership variation compared to 2019
New annual ridership per capita — 2023
Annual ridership per capita — 2022

Light rail and tram ridership evolution since 2019 for the investigated cities

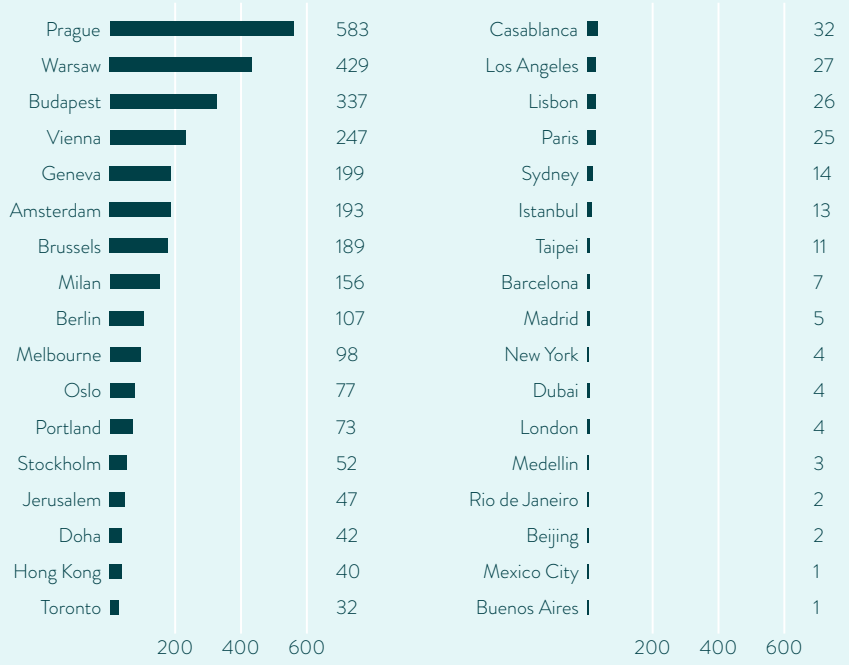


METRO AND LRT FLEET

Number of metro cars per million inhabitants — 2023

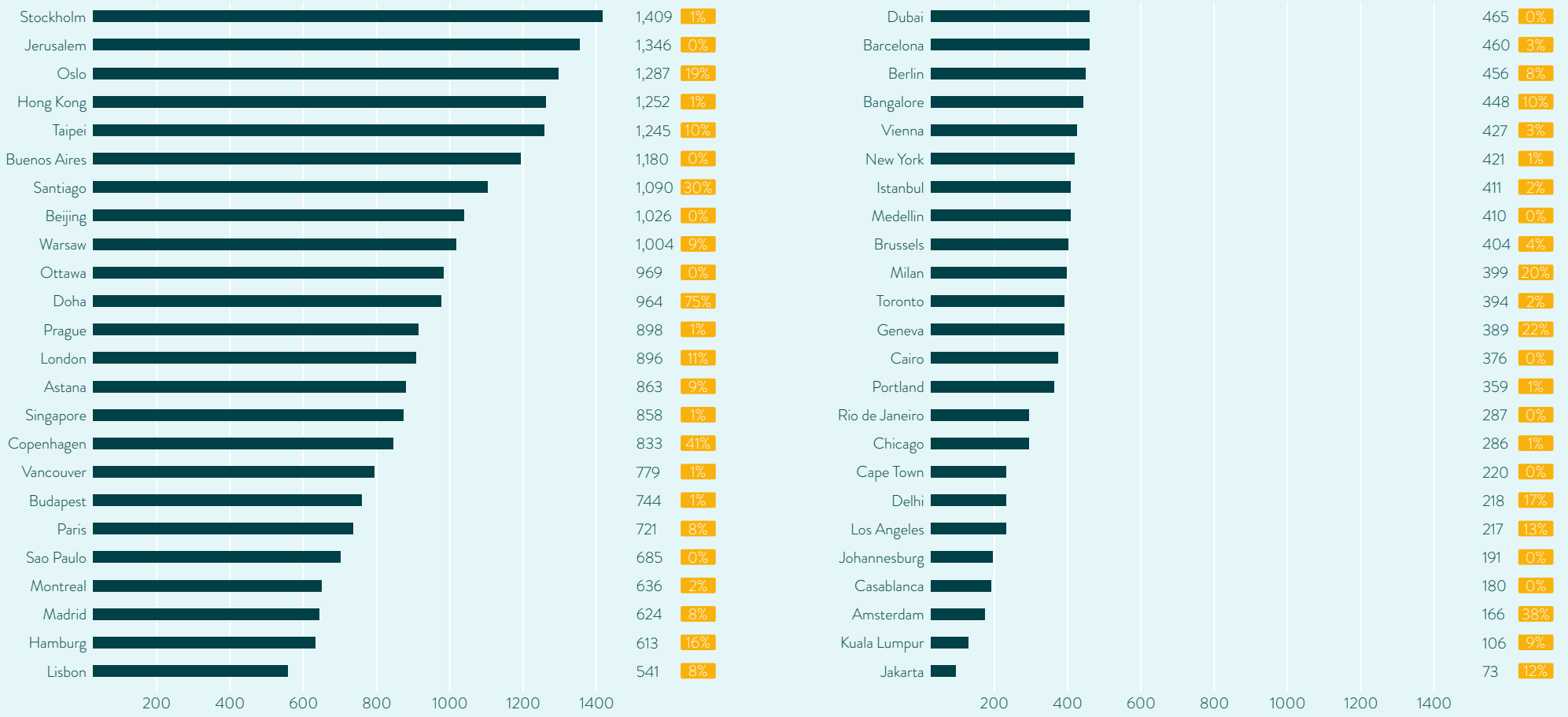


Number of LRT vehicles per million inhabitants — 2023



BUS FLEET

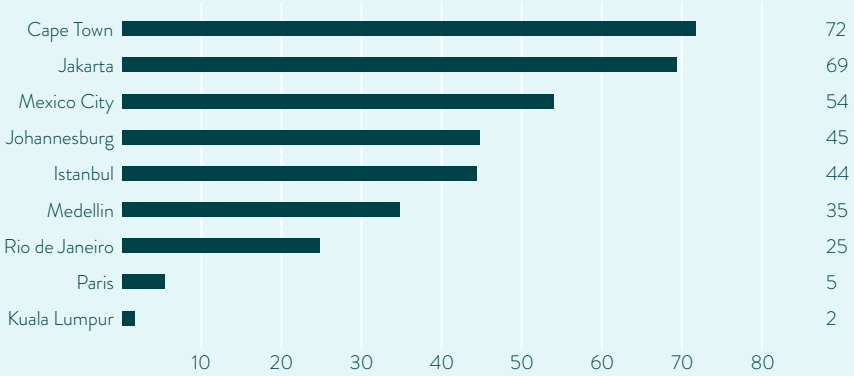
Number of bus vehicles per million inhabitants — 2023



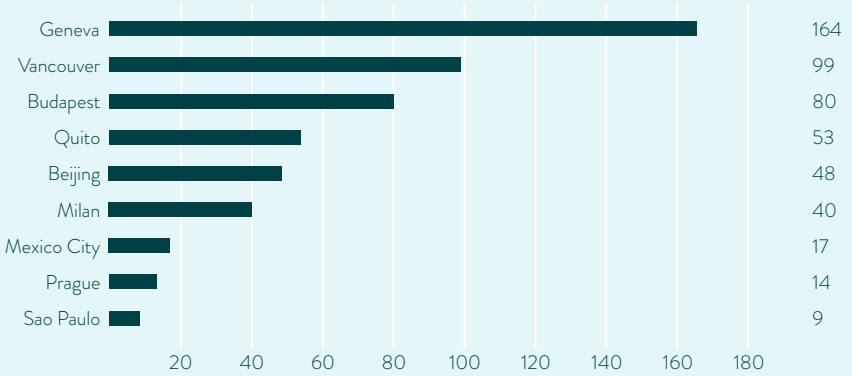
Share of Battery Electric Vehicles (BEVs)

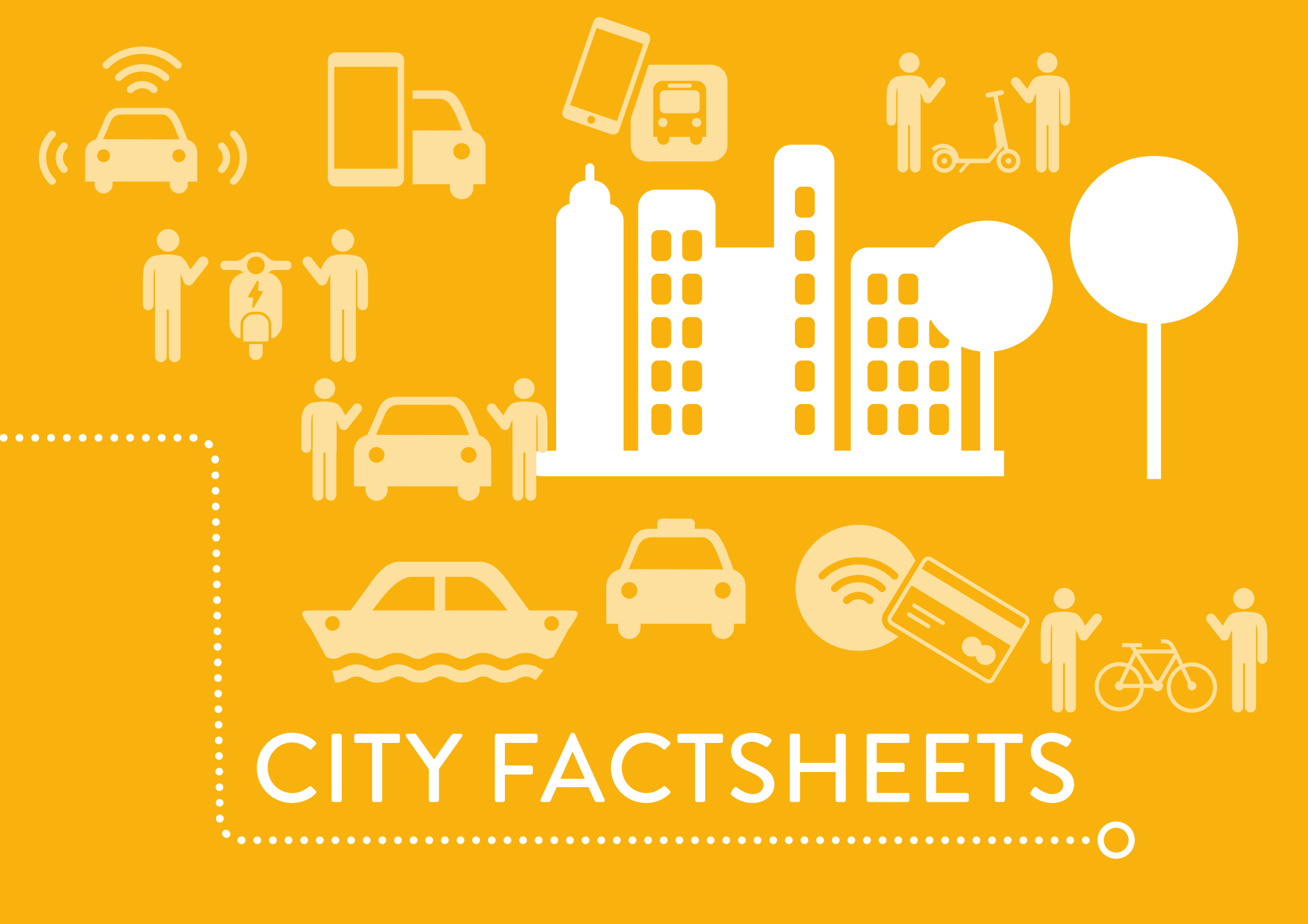
BRT AND TROLLEYBUS FLEET

Number of BRT vehicles per million inhabitants — 2023



Number of Trolleybus vehicles per million inhabitants — 2023





CITY FACTSHEETS

AMSTERDAM

Global Urban Mobility Indicators 2023

	Bus*	Metro	LRT
Opening Year		1977	1900
Annual ridership per capita	38	85	81
Annual passenger-kilometres per capita		407	238
Number of lines		5	15
Network length/bus lanes in km per million inhabitants	0	36	85
Number of stops/stations per million inhabitants		33	213
Number of vehicles/metro cars per km of network		6.7	2.3
Number of vehicles/metro cars per million inhabitants	166	240	193
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita			
Other	38% Share of battery electric buses	0% Share of automated network length	100% Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

5,000 employees
in public transport*

222 cars
per 1,000 inhabitants

3.4 euro
cost of a 1-trip public transport ticket

12
road traffic related
fatalities
per year per million inhabitants**

22 taxis
per 10,000 inhabitants***

815km
of bicycle network

*Data refers to GVB **Data from 2022 ***Data from 2020

ASTANA

Global Urban Mobility Indicators 2023

	Bus
Opening Year	
Annual ridership per capita	161
Annual passenger-kilometres per capita	
Number of lines	
Network length/bus lanes in km per million inhabitants	77
Number of stops/stations per million inhabitants	
Number of vehicles/metro cars per km of network	
Number of vehicles/metro cars per million inhabitants	863
Number of automated vehicles/metro cars	0
Annual vehicle-kilometres per capita	53
Other	9% Share of battery electric buses

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

4,000 employees
in public transport

321 cars
per 1,000 inhabitants

90 Kazakhstani tenge
cost of a 1-trip public transport ticket

27
road traffic related **fatalities**
per year per million inhabitants

4 taxis
per 10,000 inhabitants

153km
of bicycle network

BANGALORE

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		2011
Annual ridership per capita	103	16
Annual passenger-kilometres per capita		
Number of lines		2
Network length/bus lanes in km per million inhabitants	0	5
Number of stops/stations per million inhabitants		5
Number of vehicles/metro cars per km of network		4.6
Number of vehicles/metro cars per million inhabitants	448	25
Number of automated vehicles/metro cars	0	0
Annual vehicle-kilometres per capita	33	
Other	10% Share of battery electric buses	0% Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

Ride hailing	Bike sharing	Car sharing	E-scooter sharing	Moped sharing	Demand responsive transit
✓	✓	✗	✗	✗	✗

Cableways	Waterborne	Open loop payment	Public Transport App
✗	✗	✗	✓

29,889 employees
in public transport

164 cars
per 1,000 inhabitants

10 Indian rupee
cost of a 1-trip public transport ticket

118
road traffic related **fatalities**
per year per million inhabitants

153 taxis
per 10,000 inhabitants

3km
of bicycle network

BARCELONA

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1863	2004
Annual ridership per capita	72	85	5
Annual passenger-kilometres per capita			
Number of lines		11	6
Network length/bus lanes in km per million inhabitants		26	5
Number of stops/stations per million inhabitants		28	10
Number of vehicles/metro cars per km of network		8.7	1.4
Number of vehicles/metro cars per million inhabitants	460	227	7
Number of automated vehicles/metro cars	0	116	0
Annual vehicle-kilometres per capita	28		
Other	3%	26%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

9,182 employees
in public transport*

422 cars
per 1,000 inhabitants

2.6 euro
cost of a 1-trip public transport ticket

12
road traffic related
fatalities
per year per million inhabitants

18 taxis
per 10,000 inhabitants

300km
of bicycle network

*Data refers to TMB and TramMet

BEIJING

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT	Trolleybus
Opening Year		1969	2017	2004	1957
Annual ridership per capita	96*	87	0.3**		
Annual passenger-kilometres per capita					
Number of lines		21	2	12	31
Network length/bus lanes in km per million inhabitants		35	1	4	11
Number of stops/stations per million inhabitants		17	1		
Number of vehicles/metro cars per km of network		9.8	2.4		2.2
Number of vehicles/metro cars per million inhabitants	1,026*	343	2		48
Number of automated vehicles/metro cars	1	450	0	0	0
Annual vehicle-kilometres per capita	53*				
Other		11%	100%	4	0%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

230 cars
per 1,000 inhabitants

3 Chinese yuan
cost of a 1-trip public transport ticket

46
road traffic related **fatalities**
per year per million inhabitants

33 taxis
per 10,000 inhabitants

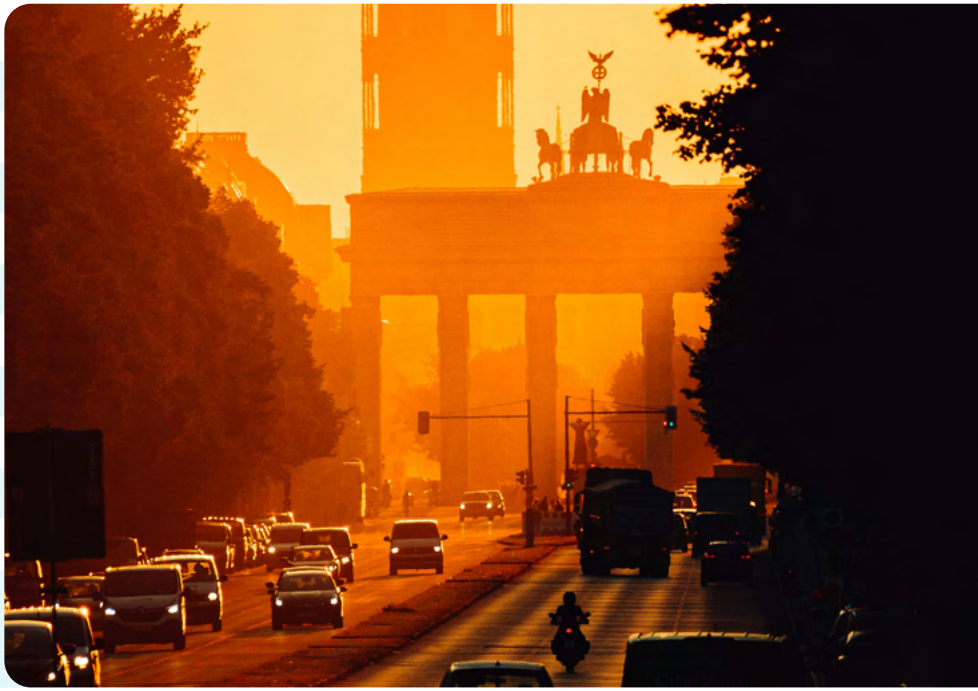
5,606km
of bicycle network

*Data including Bus, BRT and trolleybus figures **Data from 2021 ***Data from 2022

BERLIN

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1902	1895
Annual ridership per capita	129	148	56
Annual passenger-kilometres per capita		676	171
Number of lines		9	22
Network length/bus lanes in km per million inhabitants	30**	41	55
Number of stops/stations per million inhabitants		49	115
Number of vehicles/metro cars per km of network		8.5	1.9
Number of vehicles/metro cars per million inhabitants	456	350	107
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	26	6	6
Other	8%	0%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles



URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

15,646 employees
in public transport

348 cars
per 1,000 inhabitants

3.2 euro
cost of a 1-trip public transport ticket

10
road traffic related
fatalities
per year per million inhabitants

15 taxis
per 10,000 inhabitants**

1,777km
of bicycle network*

*Data from 2021 **Data from 2022

BRUSSELS

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1976	1885
Annual ridership per capita	54	62	61
Annual passenger-kilometres per capita			
Number of lines		3	18
Network length/bus lanes in km per million inhabitants		19	71
Number of stops/stations per million inhabitants		28	138
Number of vehicles/metro cars per km of network		12.0	2.7
Number of vehicles/metro cars per million inhabitants	404	225	189
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	15	3	7
Other	4%	0%	69%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

10,477 employees
in public transport

235 cars
per 1,000 inhabitants

2.6 euro
cost of a 1-trip public transport ticket

3
road traffic related
fatalities
per year per million inhabitants

6 taxis
per 10,000 inhabitants**

513km
of bicycle network*

*Data from 2022 **Data from 2021

BUDAPEST

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	Trolleybus
Opening Year		1896	1866	1949
Annual ridership per capita	327	215	223	46
Annual passenger-kilometres per capita		934	1	
Number of lines		4	35	16
Network length/bus lanes in km per million inhabitants		22	91	31
Number of stops/stations per million inhabitants		27	182	
Number of vehicles/metro cars per km of network		10.7	3.7	2.5
Number of vehicles/metro cars per million inhabitants	744	233	337	80
Number of automated vehicles/metro cars	0	60	0	0
Annual vehicle-kilometres per capita				
Other	2%* Share of battery electric buses	19% Share of automated network length	19% Share of low-entry LRT vehicles	34% Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

9,500 employees
in public transport***

401 cars
per 1,000 inhabitants

450 Hungarian forint
cost of a 1-trip public transport ticket

25
road traffic related **fatalities**
per year per million inhabitants

31 taxis
per 10,000 inhabitants**

350km
of bicycle network

*Data from 2021 **Data from 2022 ***Data refers to BKV

BUENOS AIRES

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT
Opening Year		1913	1987	2011
Annual ridership per capita	190*	15	0.1**	
Annual passenger-kilometres per capita				
Number of lines		6	1	156
Network length/bus lanes in km per million inhabitants		4	0.5	4
Number of stops/stations per million inhabitants		6	1	
Number of vehicles/metro cars per km of network		11.4	1.1	
Number of vehicles/metro cars per million inhabitants	1,180*	43	1	
Number of automated vehicles/metro cars	0	0	0	0
Annual vehicle-kilometres per capita				
Other		0%	2%	10
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

358 cars
per 1,000 inhabitants

80 Argentine peso
cost of a 1-trip public transport ticket

28
road traffic related **fatalities**
per year per million inhabitants**

13 taxis
per 10,000 inhabitants

300km
of bicycle network

*Data including Bus and BRT

**Data from 2022

CAIRO

Global Urban Mobility Indicators 2023

	Bus	Metro	Paratransit
Opening Year		1987	
Annual ridership per capita	1*	42	
Annual passenger-kilometres per capita			
Number of lines		3	
Network length/bus lanes in km per million inhabitants	0	4	
Number of stops/stations per million inhabitants		4	
Number of vehicles/metro cars per km of network		10.6	
Number of vehicles/metro cars per million inhabitants	376	44	361
Number of automated vehicles/metro cars	0	0	
Annual vehicle-kilometres per capita	1*		
Other	0%	0%	
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

1,000 employees
in public transport*

117 cars
per 1,000 inhabitants**

5 Egyptian pound
cost of a 1-trip public transport ticket

32
road traffic related **fatalities**
per year per million inhabitants

54 taxis
per 10,000 inhabitants***

15km
of bicycle network**

*Data refers only to Mwasalat Misr **Data from 2022 ***Data from 2021

CAPE TOWN

Global Urban Mobility Indicators 2023

	Bus*	BRT	Paratransit
Opening Year		2010	
Annual ridership per capita	10	4	
Annual passenger-kilometres per capita			
Number of lines		44**	
Network length/bus lanes in km per million inhabitants		14	
Number of stops/stations per million inhabitants			
Number of vehicles/metro cars per km of network		5.2**	
Number of vehicles/metro cars per million inhabitants	220	72**	3,374
Number of automated vehicles/metro cars	0	0	
Annual vehicle-kilometres per capita	12		
Other	0% Share of battery electric buses	2 Number of corridors	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✗
- Car sharing ✗
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

2,526 employees
in public transport*

8.9 South African rand
cost of a 1-trip public transport ticket

143
road traffic related **fatalities**
per year per million inhabitants***

6 taxis
per 10,000 inhabitants

548km
of bicycle network**

*Data refers only to Golden Arrow Bus Service **Data from 2022 ***Data from 2021

CASABLANCA

Global Urban Mobility Indicators 2023

	Bus	LRT
Opening Year		2012
Annual ridership per capita	25	13
Annual passenger-kilometres per capita		
Number of lines		2
Network length/bus lanes in km per million inhabitants		12
Number of stops/stations per million inhabitants		18
Number of vehicles/metro cars per km of network		2.7
Number of vehicles/metro cars per million inhabitants	180	32
Number of automated vehicles/metro cars	0	0
Annual vehicle-kilometres per capita	12	1
Other	0%	100%
	Share of battery electric buses	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✗
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

359 cars
per 1,000 inhabitants**

5 Maroccan dirham
cost of a 1-trip public transport ticket

63
road traffic related
fatalities
per year per million inhabitants*

22 taxis
per 10,000 inhabitants*

*Data from 2022 **Data from 2018

CHICAGO

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		1892
Annual ridership per capita	20	13
Annual passenger-kilometres per capita		124
Number of lines		8
Network length/bus lanes in km per million inhabitants		19
Number of stops/stations per million inhabitants		16
Number of vehicles/metro cars per km of network		9
Number of vehicles/metro cars per million inhabitants	286	167
Number of automated vehicles/metro cars	0	0
Annual vehicle-kilometres per capita	12	2
Other	1%	0%
	Share of battery electric buses	Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

12,171 employees in public transport

2.3 United States dollar cost of a 1-trip public transport ticket

12 road traffic related **fatalities** per year per million inhabitants

8 taxis per 10,000 inhabitants

623km of bicycle network

COPENHAGEN

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		2002
Annual ridership per capita	122	87
Annual passenger-kilometres per capita		390
Number of lines		4
Network length/bus lanes in km per million inhabitants		28
Number of stops/stations per million inhabitants		28
Number of vehicles/metro cars per km of network		6.3
Number of vehicles/metro cars per million inhabitants	833	176
Number of automated vehicles/metro cars	0	243
Annual vehicle-kilometres per capita		
Other	41% Share of battery electric buses	100% Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

Ride hailing	Bike sharing	Car sharing	E-scooter sharing	Moped sharing	Demand responsive transit
✗	✓	✓	✓	✗	✗

Cableways	Waterborne	Open loop payment	Public Transport App
✗	✓	✗	✓

332 employees
in public transport**

100 cars
per 1,000 inhabitants

24 Danish krone
cost of a 1-trip public transport ticket

6
road traffic related **fatalities**
per year per million inhabitants

10 taxis
per 10,000 inhabitants

412km
of bicycle network*

*Data from 2022

**Data refers to Metro Service AS

DELHI

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		2002
Annual ridership per capita	47	62
Annual passenger-kilometres per capita		
Number of lines		12
Network length/bus lanes in km per million inhabitants		12
Number of stops/stations per million inhabitants		8
Number of vehicles/metro cars per km of network		6.1
Number of vehicles/metro cars per million inhabitants	218	73
Number of automated vehicles/metro cars	0	365
Annual vehicle-kilometres per capita	16	
Other	17% Share of battery electric buses	18% Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

14,033 employees
in public transport**

10 Indian rupee
cost of a 1-trip public transport ticket

44
road traffic related **fatalities**
per year per million inhabitants*

25 taxis
per 10,000 inhabitants*

100km
of bicycle network*

DOHA

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		2019	2019
Annual ridership per capita	2*	43	3
Annual passenger-kilometres per capita			
Number of lines		3	5
Network length/bus lanes in km per million inhabitants	0	64	16
Number of stops/stations per million inhabitants		31	34
Number of vehicles/metro cars per km of network		4.3	2.6
Number of vehicles/metro cars per million inhabitants	964	278	42
Number of automated vehicles/metro cars	0	330	0
Annual vehicle-kilometres per capita	75		1
Other	75%	100%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

4,766 employees
in public transport***

2 Qatari riya
cost of a 1-trip public transport ticket

142
road traffic related **fatalities**
per year per million inhabitants

19 taxis
per 10,000 inhabitants

540km
of bicycle network**

*Data doesn't include Metrolink bus service
**Data from 2019
***Data refers to Qatar Railways Company, Qatar Foundation and Msheireb Properties

DUBAI

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		2009	2014
Annual ridership per capita	58	87	3
Annual passenger-kilometres per capita			
Number of lines		3	1
Network length/bus lanes in km per million inhabitants	0	32	4
Number of stops/stations per million inhabitants		19	4
Number of vehicles/metro cars per km of network		6.9	1
Number of vehicles/metro cars per million inhabitants	465	218	4
Number of automated vehicles/metro cars	0	657	0
Annual vehicle-kilometres per capita			
Other	0.1%* Share of battery electric buses	100% Share of automated network length	100% Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

3,698 employees
in public transport

756 cars
per 1,000 inhabitants

4 United Arab Emirates dirham
cost of a 1-trip public transport ticket

40
road traffic related **fatalities**
per year per million inhabitants

42 taxis
per 10,000 inhabitants

544km
of bicycle network

*Data from 2022

GENEVA

Global Urban Mobility Indicators 2023

	Bus	LRT	Trolleybus
Opening Year		1889	1942
Annual ridership per capita	111	155	59
Annual passenger-kilometres per capita		338	
Number of lines		5	6
Network length/bus lanes in km per million inhabitants		63	48
Number of stops/stations per million inhabitants		147	
Number of vehicles/metro cars per km of network		3.2	3.4
Number of vehicles/metro cars per million inhabitants	389	199	164
Number of automated vehicles/metro cars	4	0	0
Annual vehicle-kilometres per capita	27	9	6
Other	22%	100%	54%
	Share of battery electric buses	Share of low-entry LRT vehicles	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

2,279 employees
in public transport

340 cars
per 1,000 inhabitants

2 Swiss franc
cost of a 1-trip public transport ticket

21
road traffic related
fatalities
per year per million inhabitants

18 taxis
per 10,000 inhabitants**

354km
of bicycle network*

*Data from 2016 **Data from 2021

HAMBURG

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		1912
Annual ridership per capita	125	137
Annual passenger-kilometres per capita		715
Number of lines		4
Network length/bus lanes in km per million inhabitants	22	59
Number of stops/stations per million inhabitants		52
Number of vehicles/metro cars per km of network		9.5
Number of vehicles/metro cars per million inhabitants	613	563
Number of automated vehicles/metro cars	0	0
Annual vehicle-kilometres per capita	33	7
Other	36%	0%
	Share of battery electric buses	Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

6,709 employees
in public transport

364 cars
per 1,000 inhabitants**

3.6 euro
cost of a 1-trip public transport ticket

13
road traffic related **fatalities**
per year per million inhabitants*

16 taxis
per 10,000 inhabitants

1,022km
of bicycle network*

*Data from 2022 **Data from 2021

HONG KONG

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	Paratransit
Opening Year		1979	1904	
Annual ridership per capita	236	206	26	7
Annual passenger-kilometres per capita				
Number of lines		9	17	
Network length/bus lanes in km per million inhabitants		26	7	
Number of stops/stations per million inhabitants		12	17	
Number of vehicles/metro cars per km of network		10.1	6	
Number of vehicles/metro cars per million inhabitants	1,252	265	40	124
Number of automated vehicles/metro cars	1	42	0	
Annual vehicle-kilometres per capita	52		2	
Other	1%	5%	0%	
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

17,405 employees
in public transport

75 cars
per 1,000 inhabitants

2.3 Hong Kong dollar
cost of a 1-trip public transport ticket

12
road traffic related **fatalities**
per year per million inhabitants

24 taxis
per 10,000 inhabitants

225km
of bicycle network*

*Data from 2022

ISTANBUL

Global Urban Mobility Indicators 2023

	Bus*	Metro	LRT	BRT	Paratransit*
Opening Year		1989	1992	2007	
Annual ridership per capita	58	39	13	18	35
Annual passenger-kilometres per capita					
Number of lines		9	3	6	
Network length/bus lanes in km per million inhabitants		10	3	3	
Number of stops/stations per million inhabitants		8	4		
Number of vehicles/metro cars per km of network		4.8	4.8	13.5	
Number of vehicles/metro cars per million inhabitants	411	50	13	44	4,589
Number of automated vehicles/metro cars	0	270	0	0	
Annual vehicle-kilometres per capita				5	
Other	2% Share of battery electric buses	31% Share of automated network length	60% Share of low-entry LRT vehicles	1 Number of corridors	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

13,808 employees
in public transport

227 cars
per 1,000 inhabitants

10.7 Turkish lira
cost of a 1-trip public transport ticket

22
road traffic related
fatalities
per year per million inhabitants

12 taxis
per 10,000 inhabitants

314km
of bicycle network*

*Data from 2022

JAKARTA

Global Urban Mobility Indicators 2023

	Bus*	Metro	BRT	Paratransit
Opening Year		2019	2004	
Annual ridership per capita	4	3	11	10
Annual passenger-kilometres per capita				
Number of lines		4	31	
Network length/bus lanes in km per million inhabitants		6	18	
Number of stops/stations per million inhabitants		3		
Number of vehicles/metro cars per km of network		4.7	3.8	
Number of vehicles/metro cars per million inhabitants	78	26	69	240
Number of automated vehicles/metro cars	0	0	0	
Annual vehicle-kilometres per capita	4		5	
Other	6% Share of battery electric buses	0% Share of automated network length	14 Number of corridors	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

11,500 employees
in public transport***

341 cars
per 1,000 inhabitants

2,000 Indonesian rupiah
cost of a 1-trip public transport ticket

313km
of bicycle network

12 taxis
per 10,000 inhabitants**

*Data refers only to TransJakarta

**Data from 2019

***Data refers to Mass Rapid Transit Jakarta and LRT Jakarta

JERUSALEM

Global Urban Mobility Indicators 2023

	Bus	LRT	BRT
Opening Year		2011	2013
Annual ridership per capita	162*	57	
Annual passenger-kilometres per capita			
Number of lines		1	6
Network length/bus lanes in km per million inhabitants		14	9
Number of stops/stations per million inhabitants		24	
Number of vehicles/metro cars per km of network		3.3	
Number of vehicles/metro cars per million inhabitants	1,346*	47	
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	49*	1	
Other	0.2%**	100%	1
	Share of battery electric buses	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✗
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

250 cars
per 1,000 inhabitants**

5.5 Israeli shekel
cost of a 1-trip public transport ticket

10
road traffic related **fatalities**
per year per million inhabitants**

29 taxis
per 10,000 inhabitants**

70km
of bicycle network**

*Data including Bus and BRT figures **Data from 2022

JOHANNESBURG

Global Urban Mobility Indicators 2023

	Bus	BRT	Paratransit
Opening Year		2009	
Annual ridership per capita	1*	1	16**
Annual passenger-kilometres per capita			
Number of lines		3	
Network length/bus lanes in km per million inhabitants		10	
Number of stops/stations per million inhabitants			
Number of vehicles/metro cars per km of network		4.7	
Number of vehicles/metro cars per million inhabitants	191**	45	
Number of automated vehicles/metro cars	0	0	
Annual vehicle-kilometres per capita			
Other	0% Share of battery electric buses	2 Number of corridors	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✗
- Car sharing ✗
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

715 employees
in public transport*

74
road traffic related
fatalities
per year per million inhabitants**

14.2 South African rand
cost of a 1-trip public transport ticket

*Data refers only to Metrobus

**Data from 2022

KUALA LUMPUR

Global Urban Mobility Indicators 2023

	Bus**	Metro	BRT
Opening Year		1996	2015
Annual ridership per capita	7	28	1
Annual passenger-kilometres per capita			
Number of lines		6	1
Network length/bus lanes in km per million inhabitants	1	24	1
Number of stops/stations per million inhabitants		16	
Number of vehicles/metro cars per km of network		5.3	2.8
Number of vehicles/metro cars per million inhabitants	106	125	2
Number of automated vehicles/metro cars	0	732	0
Annual vehicle-kilometres per capita	7	2	0.1
Other	9%	73%	1
	Share of battery electric buses	Share of automated network length	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

6,646 employees
in public transport

545 cars
per 1,000 inhabitants*

1 Malaysian ringgit
cost of a 1-trip public transport ticket

23
road traffic related **fatalities**
per year per million inhabitants

33km
of bicycle network

*Data from 2015

**Data refers to Prasarana Malaysia Berhad

LAGOS

Global Urban Mobility Indicators 2023

	Bus*	Metro	BRT
Opening Year		2023	2008
Annual ridership per capita	2	0.04	
Annual passenger-kilometres per capita			
Number of lines		1	26
Network length/bus lanes in km per million inhabitants		1	1
Number of stops/stations per million inhabitants		0.3	
Number of vehicles/metro cars per km of network		0.6	
Number of vehicles/metro cars per million inhabitants	20	1	
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita			
Other		0%	1
	Share of battery electric buses	Share of automated network length	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

Ride hailing	Bike sharing	Car sharing	E-scooter sharing	Moped sharing	Demand responsive transit
✓	✓	✗	✗	✗	✗

Cableways	Waterborne	Open loop payment	Public Transport App
✗	✓	✗	✓

822 employees
in public transport**

300 Nigerian naira
cost of a 1-trip public transport ticket

*Data from 2021

**Data from 2022 refers to Lagos Bus Services Limited

LISBON

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1959	1901
Annual ridership per capita	93	55	9
Annual passenger-kilometres per capita		292	15*
Number of lines		4	9
Network length/bus lanes in km per million inhabitants		15	22
Number of stops/stations per million inhabitants		17	71
Number of vehicles/metro cars per km of network		7.6	1.2
Number of vehicles/metro cars per million inhabitants	541	111	26
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	44	2	1
Other	8%	0%	52%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

2,629 employees
in public transport

31
road traffic related **fatalities**
per year per million inhabitants

2 euro
cost of a 1-trip public transport ticket

378km
of bicycle network

15 taxis
per 10,000 inhabitants

*Data refers only to Metro Transportes do Sul

LONDON

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1863	2000
Annual ridership per capita	192	131	2
Annual passenger-kilometres per capita		1,146	11
Number of lines		17	4
Network length/bus lanes in km per million inhabitants	0.1	46	3
Number of stops/stations per million inhabitants		33	4
Number of vehicles/metro cars per km of network		10.1	1.3
Number of vehicles/metro cars per million inhabitants	896	463	4
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	47	9	0.3
Other	11%	0%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

28,006 employees
in public transport

269 cars
per 1,000 inhabitants

1.8 British pound sterling
cost of a 1-trip public transport ticket

12
road traffic related **fatalities**
per year per million inhabitants

16 taxis
per 10,000 inhabitants

350km
of bicycle network

LOS ANGELES

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT
Opening Year		1993	1990	2005
Annual ridership per capita	22	2	3	
Annual passenger-kilometres per capita		17	31	
Number of lines		2	4	2
Network length/bus lanes in km per million inhabitants		2	12	7
Number of stops/stations per million inhabitants		1	7	
Number of vehicles/metro cars per km of network		3.4	2.3	
Number of vehicles/metro cars per million inhabitants	217*	7	27	
Number of automated vehicles/metro cars	0	0	0	0
Annual vehicle-kilometres per capita	12	0.1	1	0.2
Other	13%	0%	0%	2
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

12,565 employees
in public transport

683 cars
per 1,000 inhabitants

1.8 United States dollar
cost of a 1-trip public transport ticket

80
road traffic related
fatalities
per year per million inhabitants**

2 taxis
per 10,000 inhabitants**

566km
of bicycle network**

*Data including Bus and BRT figures **Data from 2022

MADRID

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1919	2007
Annual ridership per capita	109	98	3
Annual passenger-kilometres per capita			
Number of lines		13	5
Network length/bus lanes in km per million inhabitants	4*	44	5
Number of stops/stations per million inhabitants		35	8
Number of vehicles/metro cars per km of network		7.1	1.1
Number of vehicles/metro cars per million inhabitants	624	309	5
Number of automated vehicles/metro cars	1	0	0
Annual vehicle-kilometres per capita	44		
Other	8% Share of battery electric buses	0% Share of automated network length	100% Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

16,547 employees
in public transport***

614 cars
per 1,000 inhabitants

1.5 euro
cost of a 1-trip public transport ticket

25
road traffic related
fatalities
per year per million inhabitants

24 taxis
per 10,000 inhabitants**

310km
of bicycle network

*Data from 2022 **Data from 2019 ***Data refers to EMT and Metro de Madrid

MEDELLIN

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT	Paratransit
Opening Year		1995	2015	2011	
Annual ridership per capita	39	55	2	12	50
Annual passenger-kilometres per capita					
Number of lines		2	1	3	
Network length/bus lanes in km per million inhabitants		8	1	9	
Number of stops/stations per million inhabitants		7	2		
Number of vehicles/metro cars per km of network		7.7	2.7	4.1	
Number of vehicles/metro cars per million inhabitants	410	59	3	35	814
Number of automated vehicles/metro cars	0	0	0	0	
Annual vehicle-kilometres per capita					
Other		0%	100%	3	
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors	

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

1,993 employees
in public transport***

212 cars
per 1,000 inhabitants**

2,880 Colombian peso
cost of a 1-trip public transport ticket

104
road traffic related
fatalities
per year per million inhabitants*

56 taxis
per 10,000 inhabitants**

140km
of bicycle network*

*Data from 2021 **Data from 2022 ***Data refers to Metro de Medellin

MELBOURNE

Global Urban Mobility Indicators 2023

	Bus	LRT
Opening Year		1906
Annual ridership per capita	21	29
Annual passenger-kilometres per capita		
Number of lines		23
Network length/bus lanes in km per million inhabitants		48
Number of stops/stations per million inhabitants		167
Number of vehicles/metro cars per km of network		2.1
Number of vehicles/metro cars per million inhabitants		98
Number of automated vehicles/metro cars	0	0
Annual vehicle-kilometres per capita		5
Other		39%
	Share of battery electric buses	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

567 cars
per 1,000 inhabitants*

5 Australian dollar
cost of a 1-trip public transport ticket

23
road traffic related
fatalities
per year per million inhabitants

20 taxis
per 10,000 inhabitants**

135km
of bicycle network

*Data from 2021 **Data from 2017

MEXICO CITY

Global Urban Mobility Indicators 2023

	Bus*	Metro	LRT	BRT	Trolleybus
Opening Year		1969	1986	2005	1951
Annual ridership per capita	6	50	1	24	4
Annual passenger-kilometres per capita					
Number of lines		12	1	61	9
Network length/bus lanes in km per million inhabitants		10	1	10	9
Number of stops/stations per million inhabitants		7	1		
Number of vehicles/metro cars per km of network		14.9	1.5	5.5	1.9
Number of vehicles/metro cars per million inhabitants	35	151	1	54	17
Number of automated vehicles/metro cars	0	0	0	0	0
Annual vehicle-kilometres per capita	2	2	0.1	4	1
Other		0%	1%	11	0%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

18,877 employees
in public transport**

610 cars
per 1,000 inhabitants

5 Mexican peso
cost of a 1-trip public transport ticket

21
road traffic related
fatalities
per year per million inhabitants

13 taxis
per 10,000 inhabitants

533km
of bicycle network

*Data refer only to Red de trasporte de pasajeros **Data refers to Red de trasporte de pasajeros and STC Metro

MILAN

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	Trolleybus
Opening Year		1964	1893	1933
Annual ridership per capita	44	105	27	6
Annual passenger-kilometres per capita		638	65	
Number of lines		5	17	4
Network length/bus lanes in km per million inhabitants		33	41	12
Number of stops/stations per million inhabitants		36	130	
Number of vehicles/metro cars per km of network		10.5	3.8	3.2
Number of vehicles/metro cars per million inhabitants	399	345	156	40
Number of automated vehicles/metro cars	0	140	0	0
Annual vehicle-kilometres per capita		4	4	2
Other	20% Share of battery electric buses	19% Share of automated network length	29% Share of low-entry LRT vehicles	24% Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

10,331 employees
in public transport

586 cars
per 1,000 inhabitants

2.2 euro
cost of a 1-trip public transport ticket

35
road traffic related
fatalities
per year per million inhabitants

15 taxis
per 10,000 inhabitants

312km
of bicycle network

MONTREAL

Global Urban Mobility Indicators 2023

	Bus	Metro	BRT***
Opening Year		1966	2022
Annual ridership per capita	58	71	
Annual passenger-kilometres per capita			
Number of lines		4	7
Network length/bus lanes in km per million inhabitants	85	16	3
Number of stops/stations per million inhabitants		16	
Number of vehicles/metro cars per km of network		14.1	
Number of vehicles/metro cars per million inhabitants	636*	232	
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	15**		
Other	2% Share of battery electric buses	0% Share of automated network length	1 Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

12,936 employees
in public transport*

278 cars
per 1,000 inhabitants****

3.8 Canadian dollar
cost of a 1-trip public transport ticket

7
road traffic related **fatalities**
per year per million inhabitants

10 taxis
per 10,000 inhabitants****

901km
of bicycle network

* Data refers only to STL, RTL and STM
**Data refers only to STM
***Ridership and vehicle data included in Bus figures
****Data refers to 2022

NEW YORK

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT
Opening Year		1860	1935	2008
Annual ridership per capita	43	64	1	2
Annual passenger-kilometres per capita		705	5	
Number of lines		30	5	20
Network length/bus lanes in km per million inhabitants	12	23	2	5
Number of stops/stations per million inhabitants		27	2	
Number of vehicles/metro cars per km of network		16.1	1.8	
Number of vehicles/metro cars per million inhabitants	421*	369	4	
Number of automated vehicles/metro cars	0	0	0	0
Annual vehicle-kilometres per capita	16	3	0.1	0.3
Other	1%	0%	100%	17
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

52,812 employees
in public transport

2.9 United States dollar
cost of a 1-trip public transport ticket

15
road traffic related **fatalities**
per year per million inhabitants

7 taxis
per 10,000 inhabitants

1,061km
of bicycle network**

*Data including Bus and BRT figures **Data from 2022

OSLO

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1966	1894
Annual ridership per capita	166	102	44
Annual passenger-kilometres per capita		543	93
Number of lines		4	6
Network length/bus lanes in km per million inhabitants		68	39
Number of stops/stations per million inhabitants		76	79
Number of vehicles/metro cars per km of network		4.7	2
Number of vehicles/metro cars per million inhabitants	1,287	318	77
Number of automated vehicles/metro cars	5	0	0
Annual vehicle-kilometres per capita	72	8	4
Other	47%	0%	86%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

3,658 employees
in public transport

520 cars
per 1,000 inhabitants

42 Norwegian krone
cost of a 1-trip public transport ticket

1
road traffic related **fatality**
per year per million inhabitants

31 taxis
per 10,000 inhabitants

290km
of bicycle network

OTTAWA

Global Urban Mobility Indicators 2023

	Bus	Metro	BRT
Opening Year		2019	1983
Annual ridership per capita	72	14	
Annual passenger-kilometres per capita		89	
Number of lines		1	18
Network length/bus lanes in km per million inhabitants	81	9	52
Number of stops/stations per million inhabitants		9	
Number of vehicles/metro cars per km of network		3	
Number of vehicles/metro cars per million inhabitants	969*	26	
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	39	2	
Other	0%	0%	6
	Share of battery electric buses	Share of automated network length	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✗
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

4,091 employees in public transport

3.8 Canadian dollar cost of a 1-trip public transport ticket

19 road traffic related **fatalities** per year per million inhabitants

8 taxis per 10,000 inhabitants

200km of bicycle network

*Data including Bus and BRT figures

PARIS

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT
Opening Year		1900	1994	1993
Annual ridership per capita	101*	126	29	
Annual passenger-kilometres per capita		612	85	
Number of lines		16	9	4
Network length/bus lanes in km per million inhabitants	34	19	10	3
Number of stops/stations per million inhabitants		28	18	
Number of vehicles/metro cars per km of network		19.4	2.5	1.7
Number of vehicles/metro cars per million inhabitants	721	362	25	5
Number of automated vehicles/metro cars	1	904	0	0
Annual vehicle-kilometres per capita	35*	5	1	
Other	8%	15%	100%	2
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✓
- Waterborne ✓
- Open loop payment ✗
- Public Transport App ✓

46,934 employees
in public transport

327 cars
per 1,000 inhabitants***

2.2 euro
cost of a 1-trip public transport ticket

16
road traffic related
fatalities
per year per million inhabitants**

20 taxis
per 10,000 inhabitants**

4,017km
of bicycle network**

*Data including Bus and BRT data **Data from 2022 ***Data from 2021

PORTLAND

Global Urban Mobility Indicators 2023

	Bus	LRT	BRT
Opening Year		1986	2022
Annual ridership per capita	19	12	
Annual passenger-kilometres per capita		84	
Number of lines		8	1
Network length/bus lanes in km per million inhabitants		49	11
Number of stops/stations per million inhabitants		74	
Number of vehicles/metro cars per km of network		1.5	
Number of vehicles/metro cars per million inhabitants	359*	73	
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	17	3	
Other	1%	84%	1
	Share of battery electric buses	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

3,309 employees
in public transport

43
road traffic related **fatalities**
per year per million inhabitants

2.5 United States dollar
cost of a 1-trip public transport ticket

644km
of bicycle network

*Data including Bus and BRT figures **Data from 2022

PRAGUE

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	Trolleybus
Opening Year		1974	1891	2017
Annual ridership per capita	191	273	262	0.1
Annual passenger-kilometres per capita				
Number of lines		3	26	1
Network length/bus lanes in km per million inhabitants	52	49	112	9
Number of stops/stations per million inhabitants		46	216	
Number of vehicles/metro cars per km of network		11.2	5.2	1.6
Number of vehicles/metro cars per million inhabitants	898	552	583	14
Number of automated vehicles/metro cars	2	0	0	0
Annual vehicle-kilometres per capita	49		44	0.04
Other	1%	0%	53%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

11,214 employees
in public transport

764 cars
per 1,000 inhabitants

30 Czech koruna
cost of a 1-trip public transport ticket

13
road traffic related **fatalities**
per year per million inhabitants*

549km
of bicycle network*

*Data from 2022

QUITO

Global Urban Mobility Indicators 2023

	Bus	Metro	BRT	Trolleybus*
Opening Year		2023	1995	1995
Annual ridership per capita		2	31	28
Annual passenger-kilometres per capita				
Number of lines		1	28	4
Network length/bus lanes in km per million inhabitants		11	36	11
Number of stops/stations per million inhabitants		8		
Number of vehicles/metro cars per km of network		4.9	6.6	4.6
Number of vehicles/metro cars per million inhabitants		55	240	53
Number of automated vehicles/metro cars	0	0	0	0
Annual vehicle-kilometres per capita		0.1	8	7
Other		0%	3	0%
	Share of battery electric buses	Share of automated network length	Number of corridors	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

130 employees
in public transport**

113 cars
per 1,000 inhabitants

0.5 United States dollar
cost of a 1-trip public transport ticket

168
road traffic related **fatalities**
per year per million inhabitants

144km
of bicycle network

*Trolleybus is integrated in the BRT system

**Data refers to Metro de Quito

RIO DE JANEIRO

Global Urban Mobility Indicators 2023

	Bus*	Metro	LRT	BRT
Opening Year		1979	2016	2011
Annual ridership per capita	47	14	1	6
Annual passenger-kilometres per capita				
Number of lines		2	3	25
Network length/bus lanes in km per million inhabitants		4	1	10
Number of stops/stations per million inhabitants		3	2	
Number of vehicles/metro cars per km of network		6.9	2.1	2.6
Number of vehicles/metro cars per million inhabitants	287	28	2	25
Number of automated vehicles/metro cars	0	0	0	0
Annual vehicle-kilometres per capita	23		0.1	2
Other		0%	100%	3
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

2,685 employees
in public transport***

271 cars
per 1,000 inhabitants

4.1 Brazilian real
cost of a 1-trip public transport ticket

51
road traffic related **fatalities**
per year per million inhabitants**

24 taxis
per 10,000 inhabitants

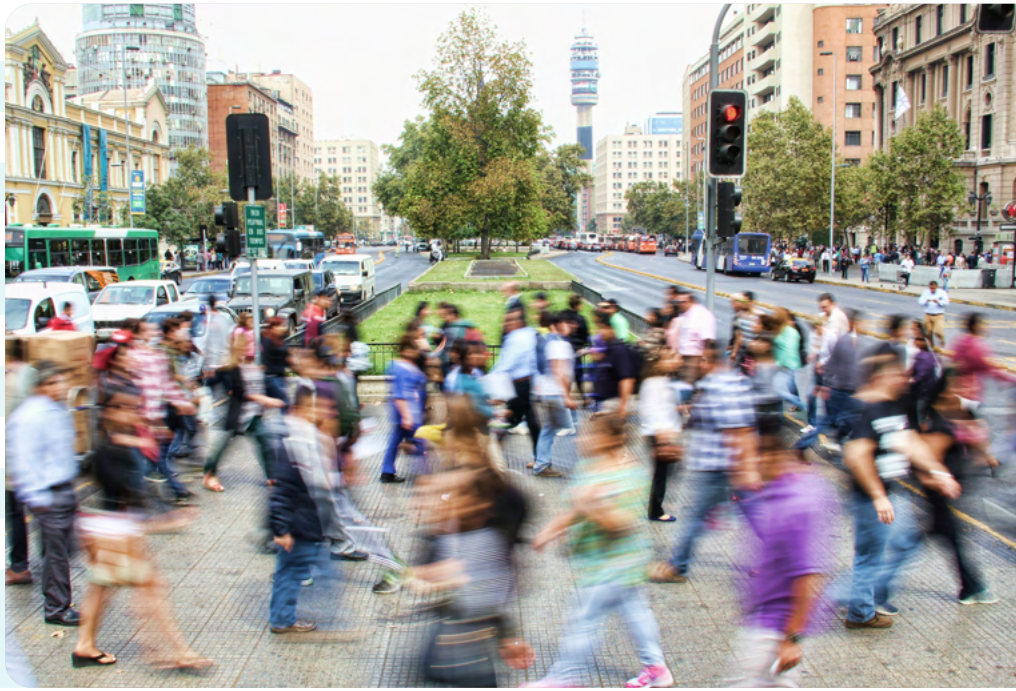
487km
of bicycle network

*Data refers only to Rio de Janeiro Municipality **Data from 2022 ***Data refers to MetroRIo and VLT Carioca

SANTIAGO

Global Urban Mobility Indicators 2023

	Bus	Metro	BRT
Opening Year		1975	2007
Annual ridership per capita	85*	87	
Annual passenger-kilometres per capita			
Number of lines		7	55
Network length/bus lanes in km per million inhabitants	52	22	13
Number of stops/stations per million inhabitants		18	
Number of vehicles/metro cars per km of network		9.7	
Number of vehicles/metro cars per million inhabitants	1,090*	209	
Number of automated vehicles/metro cars	0	185	0
Annual vehicle-kilometres per capita	58*		
Other	30% Share of battery electric buses	26% Share of automated network length	13 Number of corridors



URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✗
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

17,989 employees
in public transport

235 cars
per 1,000 inhabitants

640 Chilean peso
cost of a 1-trip public transport ticket

51 road traffic related **fatalities**
per year per million inhabitants

35 taxis
per 10,000 inhabitants

753km
of bicycle network**

*Data including Bus and BRT figures **Data from 2021

SÃO PAULO

Global Urban Mobility Indicators 2023

	Bus	Metro	BRT	Trolleybus
Opening Year		1974	1988	1949
Annual ridership per capita	143*	53		
Annual passenger-kilometres per capita				
Number of lines		6	12	10
Network length/bus lanes in km per million inhabitants		5	2	7
Number of stops/stations per million inhabitants		4		
Number of vehicles/metro cars per km of network		11.3		1.2
Number of vehicles/metro cars per million inhabitants	685**	52		9
Number of automated vehicles/metro cars	0	363	0	0
Annual vehicle-kilometres per capita				
Other	0% Share of battery electric buses	26% Share of automated network length	2 Number of corridors	0% Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✓
- Public Transport App ✓

7,579 employees
in public transport

441 cars
per 1,000 inhabitants

4.4 Brazilian real
cost of a 1-trip public transport ticket

44
road traffic related **fatalities**
per year per million inhabitants

16 taxis
per 10,000 inhabitants

722km
of bicycle network

*Data including Bus, BRT and trolleybus figures **Data including Bus and BRT figures

SINGAPORE

Global Urban Mobility Indicators 2023

	Bus	Metro
Opening Year		1987
Annual ridership per capita	225	175
Annual passenger-kilometres per capita		1,089
Number of lines		9
Network length/bus lanes in km per million inhabitants		41
Number of stops/stations per million inhabitants		29
Number of vehicles/metro cars per km of network		9.3
Number of vehicles/metro cars per million inhabitants	858	383
Number of automated vehicles/metro cars	0	1,270
Annual vehicle-kilometres per capita		
Other	1% Share of battery electric buses	60% Share of automated network length

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

20,835 employees
in public transport

94 cars
per 1,000 inhabitants

1.7 Singapore dollar
cost of a 1-trip public transport ticket

22
road traffic related
fatalities
per year per million inhabitants

22 taxis
per 10,000 inhabitants

525km
of bicycle network

STOCKHOLM

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1950	1914
Annual ridership per capita	165*	179	23*
Annual passenger-kilometres per capita		987	
Number of lines		7	5
Network length/bus lanes in km per million inhabitants		64	22
Number of stops/stations per million inhabitants		59	35
Number of vehicles/metro cars per km of network		3.2	2.4*
Number of vehicles/metro cars per million inhabitants	1,409*	206	52*
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita			
Other	1% Share of battery electric buses	0% Share of automated network length	100% Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

900 employees
in public transport**

395 cars
per 1,000 inhabitants

42 Swedish krona
cost of a 1-trip public transport ticket

20
road traffic related **fatalities**
per year per million inhabitants

51 taxis
per 10,000 inhabitants

114km
of bicycle network*

*Data from 2022

**Data refers to Storstockholms Lokaltrafik Group

SYDNEY

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		2019	1997
Annual ridership per capita	45	4	7
Annual passenger-kilometres per capita			
Number of lines		1	3
Network length/bus lanes in km per million inhabitants		7	5
Number of stops/stations per million inhabitants		3	8
Number of vehicles/metro cars per km of network		7.5	2.9
Number of vehicles/metro cars per million inhabitants		53	14
Number of automated vehicles/metro cars	0	270	0
Annual vehicle-kilometres per capita			
Other		100%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

1,319 employees
in public transport**

560 cars
per 1,000 inhabitants*

3.2 Australian dollar
cost of a 1-trip public transport ticket

21
road traffic related
fatalities
per year per million inhabitants

11 taxis
per 10,000 inhabitants

885km
of bicycle network

*Data from 2021

**Data refers to Metro Trains Sydney

TAIPEI

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT	BRT
Opening Year		1996	2018	2008
Annual ridership per capita	142*	258	1**	
Annual passenger-kilometres per capita		2,045		
Number of lines		7	3	2
Network length/bus lanes in km per million inhabitants		72	6	11
Number of stops/stations per million inhabitants		53	8	
Number of vehicles/metro cars per km of network		6.1	1.8	
Number of vehicles/metro cars per million inhabitants	1,245*	443	11	
Number of automated vehicles/metro cars	0	372	0	0
Annual vehicle-kilometres per capita	50*	8		
Other	10%**	20%	100%	1
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles	Number of corridors

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✗

- Cableways ✓
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

10,925 employees
in public transport

272 cars
per 1,000 inhabitants

8 Taiwan dollar
cost of a 1-trip public transport ticket

40
road traffic related
fatalities
per year per million inhabitants

114 taxis
per 10,000 inhabitants

516km
of bicycle network

*Data including Bus and BRT data **Data from 2022

TORONTO

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1954	1892
Annual ridership per capita	59	47	5
Annual passenger-kilometres per capita			
Number of lines		3	9
Network length/bus lanes in km per million inhabitants	5	11	14
Number of stops/stations per million inhabitants		11	49
Number of vehicles/metro cars per km of network		12.1	2.4
Number of vehicles/metro cars per million inhabitants	394	133	32
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	22*		1
Other	2%	0%	100%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

15,772 employees
in public transport*

655 cars
per 1,000 inhabitants

3.4 Canadian dollar
cost of a 1-trip public transport ticket

9
road traffic related **fatalities**
per year per million inhabitants**

5 taxis
per 10,000 inhabitants

367km
of bicycle network

*Data refersonly to Toronto Transport Commission **Data from 2021

VANCOUVER

Global Urban Mobility Indicators 2023

	Bus	Metro	Trolleybus
Opening Year		1986	1948
Annual ridership per capita	92	53	16
Annual passenger-kilometres per capita			
Number of lines		3	13
Network length/bus lanes in km per million inhabitants		30	60
Number of stops/stations per million inhabitants		20	
Number of vehicles/metro cars per km of network		5.1	0.8
Number of vehicles/metro cars per million inhabitants	779*	153	99
Number of automated vehicles/metro cars	0	406	0
Annual vehicle-kilometres per capita			4
Other	1%*	100%	0%
	Share of battery electric buses	Share of automated network length	Share of in motion charging vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✗
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✓
- Open loop payment ✓
- Public Transport App ✓

8,595 employees
in public transport

464 cars
per 1,000 inhabitants

3.1 Canadian dollar
cost of a 1-trip public transport ticket

7
road traffic related **fatalities**
per year per million inhabitants*

9 taxis
per 10,000 inhabitants

4,870km
of bicycle network

*Data from 2021

VIENNA

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1976	1883
Annual ridership per capita	84	178	138
Annual passenger-kilometres per capita			
Number of lines		5	28
Network length/bus lanes in km per million inhabitants	17	42	87
Number of stops/stations per million inhabitants		55	294
Number of vehicles/metro cars per km of network		11	2.9
Number of vehicles/metro cars per million inhabitants	427	463	247
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	20		12
Other	3%	0%	82%
	Share of battery electric buses	Share of automated network length	Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✓
- Demand responsive transit ✓

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

8,816 employees
in public transport

370 cars
per 1,000 inhabitants

2.4 euro
cost of a 1-trip public transport ticket

6
road traffic related **fatalities**
per year per million inhabitants

24 taxis
per 10,000 inhabitants*

1,661km
of bicycle network

*Data from 2019

WARSAW

Global Urban Mobility Indicators 2023

	Bus	Metro	LRT
Opening Year		1995	1908
Annual ridership per capita	252	111	138
Annual passenger-kilometres per capita			
Number of lines		2	26
Network length/bus lanes in km per million inhabitants	41	23	76
Number of stops/stations per million inhabitants		21	166
Number of vehicles/metro cars per km of network		14.3	5.7
Number of vehicles/metro cars per million inhabitants	1,004	330	429
Number of automated vehicles/metro cars	0	0	0
Annual vehicle-kilometres per capita	65		15
Other	9% Share of battery electric buses	0% Share of automated network length	56% Share of low-entry LRT vehicles

URBAN MOBILITY LANDSCAPE

Shared and on-demand mobility

- Ride hailing ✓
- Bike sharing ✓
- Car sharing ✓
- E-scooter sharing ✓
- Moped sharing ✗
- Demand responsive transit ✗

- Cableways ✗
- Waterborne ✗
- Open loop payment ✗
- Public Transport App ✓

2,842 employees
in public transport**

876 cars
per 1,000 inhabitants

3.4 Polish zloty
cost of a 1-trip public transport ticket

16
road traffic related **fatalities**
per year per million inhabitants

64 taxis
per 10,000 inhabitants*

773km
of bicycle network

*Data from 2019 **Data refers to Metro Warszawskie

DEFINITIONS

Indicators

Indicator	Unit	Definition	Public transport modes covered
Opening year	Year	The year when the system for the considered public transport mode commenced public service.	Metro, LRT, BRT, Trolleybus
Annual ridership per capita	Trip/Boarding	The annual average usage for the considered public transport mode, including either number of trips (one-way course of travel from one place to another) or number of boardings (a movement using a single transport vehicle), divided by the number of inhabitants.	Bus, Metro, LRT, BRT, Trolleybus, Paratransit
Annual passenger-kilometres per capita	pkm	Total distance covered by passengers for the considered public transport mode annually divided by the number of inhabitants.	Metro, LRT
Number of public transport lines	Line	Total amount of commercial service lines for the considered public transport mode providing regular and scheduled transport services for the given year. Touristic and historical lines are excluded.	Metro, LRT, BRT, Trolleybus
Network length/bus lanes in km per million inhabitants	Km	Network length: Total infrastructure length for the considered public transport mode (Metro, LRT, BRT, Trolleybus), excluding service sections, per million inhabitants, for the given year. Km of network is counted as double track. Bus lanes: Total infrastructure length reserved for the exclusive use of the considered public transport mode, or multiple transport modes, excluding service sections, per million inhabitants, for the given year, e.g. curbside bus lanes where other public transport modes or cyclists are also allowed.	Metro, LRT, BRT, Trolleybus, Bus
Number of stops/stations per million inhabitants	Stop/Station	Number of stops/stations counted by the stop/station name for the considered public transport mode, per million inhabitants, for the given year (metro interchange stations counted only once).	Metro, LRT
Number of vehicles/Metro cars per km of network	Vehicle/Metro car	Number of vehicles/metro cars for the considered public transport mode, per km of network, in service for the given year.	Metro, LRT, BRT, Trolleybus
Number of vehicles/Metro cars per million inhabitants	Vehicle/Metro car	Number of vehicles/metro cars for the considered public transport mode, per million inhabitants, in service for the given year. *Metro* A metro car is an individual unit that forms part of a train. *Light-Rail and Tram* The Light-Rail and Tram vehicle, which might consist of multiple units, can be independently operated in passenger service. For example, if two vehicles are coupled in double traction as a train, they should be counted separately.	Bus, Metro, LRT, BRT, Trolleybus, Paratransit

Indicator	Unit	Definition	Public transport modes covered
Number of automated vehicles/metro cars	Vehicle/Metro car	Number of automated and autonomous vehicles/metro cars for the considered public transport mode in service for the given year. The level of automation is considered by the different transport modes: *Metro* Exclusively fully automated metro vehicles, defined as vehicles designed for operation without staff on board the trains. This type of operation is also known as Unattended Train Operation, or Grade of Automation 4 in standard IEC 62267. Only lines with services that have no end date have been considered (no pilot lines). *Light rail and Tram* Conditional Automation (GoA2+): In commercial or public traffic areas, such as city streets and urban corridors, the tram operates under partial automation. The system manages basic tasks such as speed control, steering, and braking along predefined routes. It can handle routine operations like stopping at stations, managing passenger doors, and responding to traffic signals. However, the driver must still monitor the system and be ready to take control when unexpected situations arise, such as complex intersections, pedestrian crossings, or sudden obstacles. *Bus, BRT and Trolleybus* Road vehicles adopting advanced driving assistance systems for multiple services, e.g. operational service, and depot driving, both considering pilot service or no-end date service. Autonomous shuttle buses capable of transporting between 6 and 15 people are included. The type of autonomous operation considered in this exercise is defined as Level 3, Level 4 or Level 5 according to Society of Automotive Engineers (SAE) J3016.	Bus, Metro, LRT, BRT, Trolleybus
Annual vehicle-kilometres per capita	vkm	Total distance covered by vehicles for the considered public transport mode in commercial service annually divided by the number of inhabitants (excluding deadhead runs from and to depots). *Light-Rail and Tram* The Light-Rail and Tram vehicle, which might consist of multiple units, can be independently operated in passenger service. For example, if two vehicles are coupled in double traction as a train, they should be counted separately.	Bus, Metro, LRT, BRT, Trolleybus
Share of battery electric buses	%	Number of full-electric battery buses in commercial service for the given year.	Bus
Share of automated network length	%	Share of infrastructure length exclusively fully automated for the considered public transport mode, excluding service sections, for the given year (Km of network is counted as double track). This type of operation is also known as Unattended Train Operation, or Grade of Automation 4 in standard IEC 62267. Only lines with services that have no end date have been considered (no pilot lines).	Metro
Share of low-entry LRT vehicles	%	Number of low-entry vehicles in service for the given year. A low-entry vehicle is a vehicle with at least one low-floor entrance. High-entry vehicles are not included even if they have step-free access. *Light rail and Tram* The Light-Rail and Tram vehicle, which might consist of multiple units, can be independently operated in passenger service. For example, if two vehicles are coupled in double traction as a train, they should be counted separately.	LRT

Indicator	Unit	Definition	Public transport modes covered
Number of public transport corridors	Corridor	A section of road or contiguous roads served by a bus line or multiple bus lines with a minimum length of 3 kilometres (1.9 miles) that has dedicated bus lanes.	BRT
Share of in motion charging vehicles	%	Number of in motion charging vehicles, IMC trolleybuses or battery trolleybuses, in service for the given year. IMC trolleybuses, or battery trolleybuses, are e-buses that draw power from overhead wires via trolleys and can also run on rechargeable batteries. Since IMC systems provide a continuous supply of electricity to vehicles in motion under overhead wires, battery trolleybuses can recharge onboard batteries to power the vehicles while off-wire, thus extending the zero-emission operations beyond the wired network.	Trolleybus
Road traffic-related fatalities per million inhabitants	Death	Total number of persons killed immediately or dying within 30 days as a result of a road injury accident per million inhabitants for the given year.	
Cars per 1,000 inhabitants	Private passenger car	The number of private passenger cars registered per 1,000 inhabitants for the given year.	
Price of public transport ticket	Local currency	Price of a single trip ticket, considering the minimum fare available no matter the transport mode. The price is rounded to the nearest integer.	Bus, Metro, LRT, BRT, Trolleybus
Km of bicycle network length	Km	Total length of bicycle network infrastructure including shared bike lanes and segregated bike paths for the given year.	
Number of taxi vehicles per 10,000 inhabitants	Vehicles	Number of registered taxi vehicles in service per 10,000 inhabitants for the given year, defined as car-based on-demand and point-to-point service.	Taxi
Number of employees	Employee	Total number of employees directly contracted from the PT Operator or Authority for the given year. The job position can include, for instance, people contracted as drivers, in maintenance, administration and management services. The number of employees covers both full-time employees and part-time employees.	Bus, Metro, LRT, BRT, Trolleybus
Availability of Ride-hailing	Yes/No	Presence of ride-hailing service as defined in the section “Definitions Transport modes”.	Ride-hailing
Availability of bike sharing	Yes/No	Presence of a bike-sharing system as defined in the section “Definitions Transport modes”.	Bike sharing
Availability of car-sharing	Yes/No	Presence of a car-sharing system as defined in the section “Definitions Transport modes”.	Car sharing
Availability of E-scooter sharing	Yes/No	Presence of e-scooter sharing system as defined in the section “Definitions Transport modes”.	E-scooter sharing
Availability of Moped sharing	Yes/No	Presence of moped sharing system as defined in the section “Definitions Transport modes”.	Moped sharing
Availability of Demand-Responsive Transit	Yes/No	Presence of a Demand-Responsive Transit (DRT) system as defined in the section “Definitions Transport modes”.	

Indicator	Unit	Definition	Public transport modes covered
Availability of Cableways	Yes/No	Presence of Cable transport/Cable car as defined in the section “Definitions Transport modes”.	
Availability of Waterborne	Yes/No	Presence of waterborne service as defined in the section “Definitions Transport modes”.	Waterborne
Availability of Open Loop Payment	Yes/No	Possibility to pay for a trip on public transport systems using a credit/debit card no matter the transport mode for the given year.	Bus, Metro, LRT, BRT, Trolleybus
Availability of Mobile public transport application	Yes/No	Availability of a standalone public transport app for smartphone developed for the city in question for the given year. Third party apps can be considered if they are specifically designed for public transport use.	

DEFINITIONS

Transport modes

BUS

Bus is a transportation system following fixed routes and schedules composed of self-propelled passenger rubber-tired road vehicles, and designed to carry more than 24 persons (including the driver), with the provision to carry seated as well as standing passengers. Refers to class I class II and eventually class III of categories M2 and M3 of the UN Consolidated Resolution on the Construction of Vehicles (R.E.3).

The vehicles may be constructed with areas for standing passengers, to allow frequent passenger movement, or designed to allow the carriage of standing passengers in the gangway.

BRT

A BRT line or corridor is a bus-based mode of transport that comprises performance uplifting features that add to a high capacity and performant bus-based system.

Dedicated right-of-way, traffic signal priority, transitoriented street design, off-board fare collection, all door faster passenger boarding, and dedicated service branding are some of the key features that contribute to enhancing the quality and performance of a bus corridor, being any degree of deployment of these features beyond a certain benchmark a valid stage of BRTisation.

Both open BRT (where buses can continue off the end of the dedicated infrastructure and operate as conventional buses) and closed BRT (where buses must stay within the dedicated infrastructure) are considered.

CABLEWAYS

Cableway is defined as a family of urban guided transport systems that bring together all types of vehicles which use cables to provide propulsion. There are several members of the family and names may vary from region to region, some examples of names include aerial transport modes such as Aerial Tramway, Gondola Lift, Cable Car, Ropeway, and ground-based/cable railways, such as Funicular, Cable Car (USA), Cable Railway.

LIGHT-RAIL AND TRAM

Light-rail and Tram (LRT) are urban rail-guided systems powered with electricity and operated at least partly on line-of-sight, on infrastructure shared with other users and partly on their own infrastructure (Right-of-Way type 2). Systems operated on guided rubber-tyred multi-articulated vehicles are included; for tram-trains, only tram section is included.

METRO

A metro is a high-capacity urban guided transport system, mostly on rails, powered with electricity and running on an exclusive right-of-way, with trains composed of a minimum of two cars and with a total capacity of at least 100 passengers per train. Suburban railways (such as the Paris RER, Berlin S-Bahn, and Kuala Lumpur International Airport express line) are not included. Systems that are based on light rail vehicles, monorail, or magnetic levitation (maglev) technology are included if they meet all other above-mentioned criteria. Suspended systems are not included.

PARATRANSIT

In the Global South, the term 'paratransit' refers to the dominant form of 'public transport'. Paratransit comprises of collective transport services that are 'nearly like' or 'around' mass public transport, conventionally used to describe a flexible mode that does not follow fixed schedules. Services are provided through a myriad of vehicles, such as small- to medium-sized buses, and two or three-wheelers. Due to the difficulty of defining the variety of collective transport, other wordings are used such as 'informal transport', 'popular transport', 'intermediate transport', 'community services', 'artisanal transport'.

Considering the relevance of paratransit systems in the public transport landscape, the GUMI report attempted to include ridership and fleet data where possible, to show the importance of the informal systems. Due to the near-total absence of data, it was only possible to collect data for a limited number of cities.

TROLLEYBUS

Trolleybus is a transportation system composed of electric passenger rubber-tired road vehicles with two roof-mounted contact poles and a network of overhead wires that provide energy to the vehicle along the routes. The power-collecting apparatus is designed to allow the bus to manoeuvre in mixed traffic over several lanes. The vehicle is an electrically propelled bus corresponding in most cases to class I and M3 categories as per the UN Consolidated Resolution on the Construction of Vehicles (R.E.3). Current state of the art technology allows vehicles to use the electric power to recharge on-board batteries while in motion allowing catenary-free operations for a section of the route and/or off-duty operations.

SHARED AND ON-DEMAND MOBILITY SOLUTIONS

Bike sharing

Defined as bikes for public hire, dock-based or dock-less systems, usually used briefly and left for other persons.

Car-sharing

Defined as station-based, free-floating or peer-to-peer vehicles usually rent for short periods, often by the hour or the minute, without ownership responsibilities.

E-scooter sharing

Defined as Electric scooters rented via apps, ridden briefly, then parked for the next user.

Moped sharing

Defined as moped for public rental accessible via apps, usually used briefly and left for other persons.

Ride-hailing

Defined as the platform-based matching of drivers and riders for car-based on-demand and point-to-point services.

Demand-Responsive Transit

Defined as a flexible, technology-driven public transport service that dynamically adapts, totally or partially, routes, schedules, and stops based on real-time demand, while pooling together different passengers. It can be human-driven or autonomous, in a commercial or pilot mode, run as B2G (for a public entity) or B2C (directly to the public) but always open to the general public. Services that are open to the wider public are covered, therefore, Ad-hoc Transport services for specific groups, such as people with mobility impairments, traditionally known in North America as paratransit, are excluded from this report.

WATERBORNE

Waterborne is a mode of transportation that utilises waterways — such as rivers, lakes, canals, and seas — through various types of vessels, such as ferries, boats, and barges, both fuel-powered and electrically powered, which travel along designated routes and schedules to connect different points.

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