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## Millennium Cities Database for Sustainable Mobility

**Important notice:** Please note that all the information contained in this database is only for direct consultation. The system does not allow to print, extract or export the data .

### List of the cities

Cities	Cities	Cities
<b>Western Europe</b>	<b>Eastern Europe</b>	Abidjan
Graz	Prague	Casablanca
Vienna	Budapest	Dakar
Brussels	Krakow	Tunis
Copenhagen	Warsaw	Cape Town
Helsinki	Moscow	Johannesburg
Lille	Istanbul	Harare
Lyon	<b>North America</b>	<b>Middle East</b>
Marseille	Calgary	Tel Aviv
Nantes	Montreal	Tehran
Paris	Ottawa	Riyadh
Berlin	Toronto	<b>Asia</b>
Frankfurt	Vancouver	Manila
Hamburg	Atlanta	Bangkok
Düsseldorf	Chicago	Beijing
Munich	Denver	Hong Kong
Ruhr	Houston	Guangzhou
Stuttgart	Los Angeles	Shanghai
Athens	New York	Mumbai (Bombay)
Bologna	Phoenix	Chennai (Madras)
Milan	San Diego	New Delhi
Rome	San Francisco	Osaka
Turin	Washington	Sapporo
Amsterdam	<b>Latin America</b>	Tokyo
Oslo	Buenos Aires	Kuala Lumpur
Lisbon	Brasilia	Jakarta
Barcelona	Curitiba	Taipei
Madrid	Rio de Janeiro	Seoul
Stockholm	Salvador	Singapore
Bern	Sao Paulo	Ho Chi Minh City
Geneva	Santiago	<b>Oceania</b>
Zurich	Bogotá	Brisbane
Glasgow	Mexico City	Melbourne
London	Caracas	Perth
Manchester	<b>Africa</b>	Sydney
Newcastle	Cairo	Wellington



## Complete list of indicators

### Characteristics of the metropolitan area.

- Urban density.
- Job density.
- Proportion of jobs in CBD.
- Metropolitan gross domestic product per capita.

### Supply indicators

#### ***Private Transport Infrastructure Indicators***

- Length of road per 1000 people.
- Length of freeway per 1000 people.
- Length of road per urban hectare.
- Length of freeway per urban hectare.
- Parking spaces per 1000 CBD jobs.

#### ***Public Transport Infrastructure Indicators***

- Total length of public transport lines per 1000 people.
- Total length of reserved public transport routes per 1000 people.
  - Bus reserved route length per 1000 people.
  - Minibus reserved route length per 1000 people.
  - Segregated tram network length per 1000 people.
  - Light rail network length per 1000 people.
  - Metro network length per 1000 people.
  - Suburban rail network length per 1000 people.
  - Heavy rail network length per 1000 people.
- Total length of reserved public transport routes per urban hectare.
  - Bus reserved route length per urban hectare.
  - Minibus reserved route length per urban hectare.
  - Segregated tram network length per urban hectare.
  - Light rail network length per urban hectare.
  - Metro network length per urban hectare.
  - Suburban rail network length per urban hectare.
  - Heavy rail network length per urban hectare.

#### ***Intermodal Transport Infrastructure Indicators.***

- Number of park and ride facilities per kilometre of reserved public transport route.
- Number of park and ride spaces per kilometre of reserved public transport route.
- Number of park and ride facilities per 10,000 urban hectare.
- Car equivalents per number of park and ride spaces.

***Private transport supply cars and motorcycles***

- Passenger cars per 1000 people.
- Motor cycles per 1000 people.
- Total private passenger vehicles per 1000 people.
- Passenger car kilometres per car.
- Motor cycle kilometres per motor cycle.

***Private collective transport supply taxis and shared taxis***

- Taxis per million people.
- Shared taxis per million people.
- Taxi vehicle kilometres per capita.
- Shared taxi vehicle kilometres per capita.

***Traffic Intensity Indicators***

- Passenger cars per kilometre of road.
- Motor cycles per kilometre of road.
- Total private passenger vehicles per kilometre of road.
- Total single and collective private passenger vehicles per kilometre of road.
- Passenger car kilometres per kilometre of road.
- Motor cycle kilometres per kilometre of road.
- Total private passenger vehicle kilometres per kilometre of road.
- Total private and collective passenger vehicle kilometres per kilometre of road.
- Passenger car kilometres per urban hectare.
- Total private passenger vehicle kilometres per urban hectare.
- Total private and collective passenger vehicle kilometres per urban hectare.

***Public Transport Supply and Service***

- Total public transport vehicles per million people.
  - Buses per million people.
  - Minibuses per million people.
  - Tram units per million people.
  - Light rail units per million people.
  - Metro units per million people.
  - Heavy rail units per million people.
- Total public transport vehicle kilometres of service per capita.
  - Bus vehicle kilometres per capita.
  - Minibus vehicle kilometres per capita.
  - Tram wagon kilometres per capita.
  - Light rail wagon kilometres per capita.
  - Metro wagon kilometres per capita.
  - Suburban rail wagon kilometres per capita.
  - Heavy rail wagon kilometres per capita.
- Total public transport vehicle kilometres of service per urban hectare.
  - Bus vehicle kilometres per urban hectare.
  - Minibus vehicle kilometres per urban hectare.
  - Tram wagon kilometres per urban hectare.
  - Light rail wagon kilometres per urban hectare.
  - Metro wagon kilometres per urban hectare.
  - Suburban rail wagon kilometres per urban hectare.
  - Heavy rail wagon kilometres per urban hectare.

- Total public transport seat kilometres of service per capita.
  - Bus seat kilometres per capita.
  - Minibus seat kilometres per capita.
  - Tram seat kilometres per capita.
  - Light rail seat kilometres per capita.
  - Metro seat kilometres per capita.
  - Suburban rail seat kilometres per capita.
  - Heavy rail seat kilometres per capita.
- Overall average speed of public transport .
  - Average speed of buses.
  - Average speed of minibuses.
  - Average speed of trams.
  - Average speed of light rail.
  - Average speed of metro.
  - Average speed of suburban rail.
  - Average speed of heavy rail.

### Mobility Indicators

- Overall mobility
- Daily trips by foot per capita.
- Daily trips by mechanized, non motorised modes per capita.
- Daily public transport trips per capita.
- Daily private transport trips per capita.
- Total daily trips per capita.
  - Percentage of non motorised modes over all trips.
  - Percentage of motorised public modes over all trips.
  - Percentage of motorised private modes over all trips.
  - Percentage of mechanised, non motorised modes over mechanised trips.
  - Percentage of motorised public modes over mechanised trips.
  - motorised private modes.
- Overall average trip distance.
- Overall average trip distance by car.
- Overall average trip distance by public transport.
- Average distance of mechanised trips.
- Overall average distance of the journey-to-work.
- Average distance of the journey-to-work by mechanised modes.
- Average time of a car trip.
- Average time of a public transport trip.

#### ***Private Mobility Indicators cars and motorcycles***

- Passenger car kilometres per capita.
- Motor cycle kilometres per capita.
- Total private passenger vehicle kilometres per capita.
- Passenger car passenger kilometres per capita.
- Motor cycle passenger kilometres per capita.
- Total private passenger kilometres per capita.

***Private Mobility Indicators taxis and shared taxis***

- Taxi passenger kilometres per capita.
- Shared taxi passenger kilometres per capita.
- Taxi trips per capita.
- Shared taxi trips per capita.

***Public Transport Mobility Indicators***

- Total public transport boardings per capita.
  - Bus boardings per capita.
  - Tram boardings per capita.
  - Light rail boardings per capita.
  - Metro boardings per capita.
  - Suburban rail boardings per capita.
  - Heavy rail boardings per capita.
- Total public transport passenger kilometres per capita.
  - Bus passenger kilometres per capita.
  - Minibus passenger kilometres per capita.
  - Tram passenger kilometres per capita.
  - Light rail passenger kilometres per capita.
  - Metro passenger kilometres per capita.
  - Heavy rail passenger kilometres per capita.

***User cost of transport***

- Average user cost of a car trip.
- Average user cost of a public transport trip.
- Price of fuel per km.
- User cost of private transport per passenger kilometre.
- User cost of public transport per passenger kilometre.
- Maximum charge for on-street parking in the CBD.
- Maximum charge for off-street parking in the CBD.
- Average of the maximum parking charges in the CBD.
- Fine for parking in no parking zone.
- Fine for obstructing public transport.
- Fine for exceeding parking time in a paying parking place.

**Public transport productivity.**

- Overall public transport vehicle occupancy.
  - Bus vehicle occupancy.
  - Minibus vehicle occupancy.
  - Tram wagon occupancy.
  - Light rail wagon occupancy.
  - Metro wagon occupancy.
  - Suburban rail wagon occupancy.
  - Heavy rail wagon occupancy.
- Overall public transport seat occupancy.
  - Bus seat occupancy.
  - Minibus seat occupancy.
  - Tram seat occupancy.
  - Light rail seat occupancy.
  - Metro seat occupancy.
  - Suburban rail seat occupancy.

- Heavy rail seat occupancy.
- Public transport operating cost recovery.
- Average public transport farebox revenue per boarding.
- Average public transport farebox revenue per passenger kilometre.
- Average public transport farebox revenue per vehicle kilometre.

## Transport Financial Cost

### ***Public Transport Cost***

- Percentage of metropolitan GDP spent on public transport investment.
- Public transport investment per capita.
- Public transport operating cost per vehicle kilometre.
- Public transport operating cost per passenger kilometre.
- Public transport operating cost per capita.
- Percentage of metropolitan GDP spent on public transport operating costs.

### ***Private Transport Cost***

- Percentage of metropolitan GDP spent on road investment.
- Road investment per capita.
- Annual road investment per kilometre of road.
- Private transport operating cost per vehicle kilometre.
- Private transport operating cost per passenger kilometre.
- Private transport operating cost per capita.
- Percentage of metropolitan GDP spent on private transport operating costs.

### ***Overall Transport Cost***

- Overall transport cost per passenger kilometre.
- Overall private transport cost per passenger kilometre.
- Overall public transport cost per passenger kilometre.
- Total passenger transport cost per capita.
- Total private passenger transport cost per capita.
- Total public passenger transport cost per capita.
- Total passenger transport cost as percentage of metropolitan GDP.
- Total private passenger transport cost as percentage of metropolitan GDP.
- Total public passenger transport cost as percentage of metropolitan GDP.
- Private passenger transport energy use per capita.

## Transport Externalities Indicators

### ***Transport Energy Indicators***

- Public transport energy use per capita.
- Total transport energy use per capita.
- Energy use per private passenger vehicle kilometre.
- Energy use per public transport vehicle kilometre.
  - Energy use per bus vehicle kilometre.
  - Energy use per minibus vehicle kilometre.
  - Energy use per tram wagon kilometre.

- Energy use per light rail wagon kilometre.
- Energy use per metro wagon kilometre.
- Energy use per suburban rail wagon kilometre.
- Energy use per heavy rail wagon kilometre.
- Energy use per private passenger kilometre.
- Energy use per public transport passenger kilometre.
  - Energy use per bus passenger kilometre.
  - Energy use per minibus passenger kilometre.
  - Energy use per tram passenger kilometre.
  - Energy use per light rail passenger kilometre.
  - Energy use per metro passenger kilometre.
  - Energy use per suburban rail passenger kilometre.
  - Energy use per heavy rail passenger kilometre.
- Overall energy use per passenger kilometre.

## Transport Externalities Indicators

### ***Air Pollution Indicators***

- Total emissions per capita
  - Emissions of CO per capita.
  - Emissions of SO<sub>2</sub> per capita.
  - Emissions of VHC per capita.
  - Emissions of NO<sub>x</sub> per capita.
- Total emissions per urban hectare.
- Total emissions per total hectare.

## Transport Externalities Indicators

### ***Transport Fatalities Indicators***

- Total transport deaths per million people.
- Total transport deaths per billion vehicle kilometres.
- Total transport deaths per billion passenger kilometres.

## Public/Private Transport Balance Indicators

- Proportion of total motorised passenger kilometres on public transport.
- Ratio of annual investment in public transport versus private transport infrastructure.
- Ratio of segregated public transport infrastructure versus expressways.
- Ratio of public versus private transport energy use per passenger kilometre.
- Ratio of public vs private transport total cost.
- Ratio of public versus private transport user cost per passenger kilometre.