

Passenger Transport Mode Shares in World Cities

The “Passenger Transport Mode Shares in World Cities” reported in November 2011 (LTA Academy, 2011) have been widely referenced by transport professionals worldwide. An update is presented here for the cities listed in *Table 1*. There are changes in the geographical coverage of some cities due to the availability of data.

Passenger transport mode share refers to the percentage of passenger journeys or trips by the main mode of transport and is typically reported through travel surveys. Travel surveys are often conducted and hence the mode share is reported by local governments. The definition, classification, data collection and computation methods may not be consistent cross different cities. In addition, the mode share is affected by household incomes, land use patterns, and many other economic and social factors. Hence, the figures shall not be compared directly and should be analysed together with the historical, social and economic situation of the city.

Table 1: List of selected cities

Asia
Ahmedabad, Bangalore, Beijing, Delhi, Guangzhou, Hong Kong, Mumbai, Osaka, Seoul, Shanghai, Singapore, Taipei, Tokyo
Australia
Sydney
Europe
Barcelona, Berlin, London, Madrid, Paris, Prague, Stockholm, Vienna
North America
Chicago, New York City, Toronto
South America
Bogota, San Paulo

AHMEDABAD

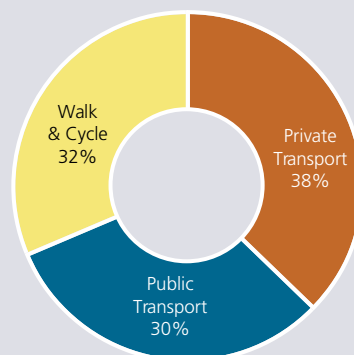
Population: 6.1 million
Area: 466 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 30% of all journeys.

Data Sources:

Census India 2011 (Final report in 2012)
Indian Cities Transport Indicators

Figure 1: Mode share in Ahmedabad (2007)**BANGALORE¹**

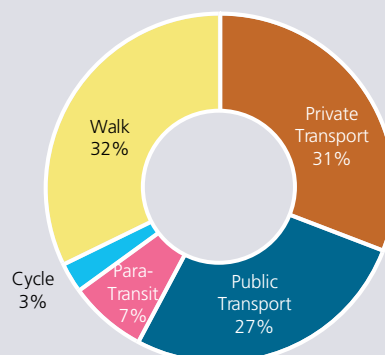
Population: 8.6 million
Area: 1,831 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 34% of all journeys.

Data Sources:

Bangalore Mobility Indicators (2010 – 2011) Study
– Draft Final Report

Figure 2: Mode share in Bangalore (2010/11)**BARCELONA**

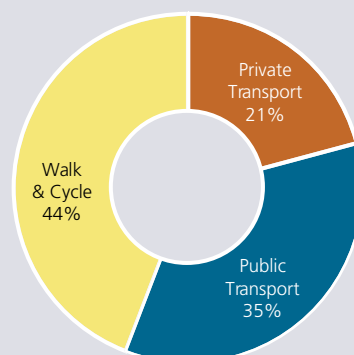
Population: 1.6 million
Area: 102 km²

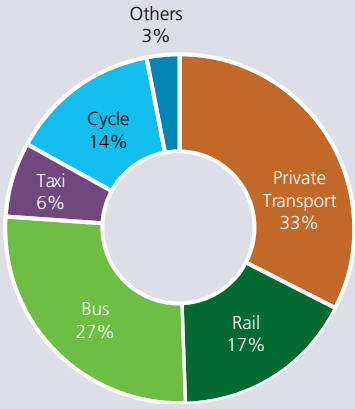
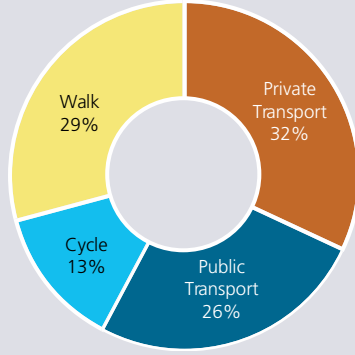
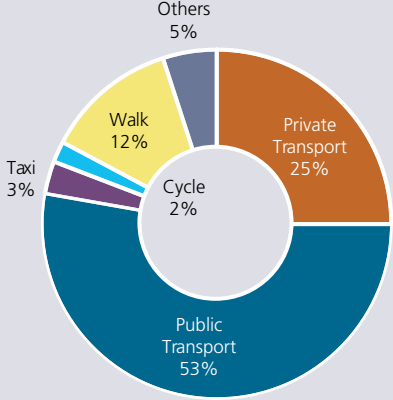
Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 35% of all journeys.

Data Sources:

Population and Household Statistics, Department of Statistics, Barcelona
Mobility Survey Weekdays, Department of Statistics, Barcelona

Figure 3: Mode share in Barcelona (2012)

<p>BEIJING²</p> <p>Population: 12.3 million Area: 1,368 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 44% of all journeys.</p> <p>Data Sources: Beijing Yearbook 2013 Beijing Transport Report 2013 (in Chinese only. 2013 年北京交通发展年报)</p>	<p><i>Figure 4: Mode share in Beijing (2012)</i></p>  <table border="1"> <caption>Mode share in Beijing (2012)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>33%</td> </tr> <tr> <td>Rail</td> <td>17%</td> </tr> <tr> <td>Bus</td> <td>27%</td> </tr> <tr> <td>Cycle</td> <td>14%</td> </tr> <tr> <td>Taxi</td> <td>6%</td> </tr> <tr> <td>Others</td> <td>3%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	33%	Rail	17%	Bus	27%	Cycle	14%	Taxi	6%	Others	3%
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<p>BERLIN</p> <p>Population: 3.5 million Area: 892 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 26% of all journeys.</p> <p>Data Sources: Berlin Statistics Time Series Berlin Mobility in the City 2013</p>	<p><i>Figure 5: Mode share in Berlin (2013)</i></p>  <table border="1"> <caption>Mode share in Berlin (2013)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>32%</td> </tr> <tr> <td>Walk</td> <td>29%</td> </tr> <tr> <td>Public Transport</td> <td>26%</td> </tr> <tr> <td>Cycle</td> <td>13%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	32%	Walk	29%	Public Transport	26%	Cycle	13%				
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<p>BOGOTA</p> <p>Population: 7.4 million Area: 1,587 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 53% of all journeys.</p> <p>Data Sources: National Administrative Department of Statistics DANE Demand for transportation in Bogota 2010 (in Spanish, Cámara de Comercio de Bogotá Observatorio de Movilidad)</p>	<p><i>Figure 6: Mode share in Bogota (2008)</i></p>  <table border="1"> <caption>Mode share in Bogota (2008)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Public Transport</td> <td>53%</td> </tr> <tr> <td>Private Transport</td> <td>25%</td> </tr> <tr> <td>Walk</td> <td>12%</td> </tr> <tr> <td>Others</td> <td>5%</td> </tr> <tr> <td>Taxi</td> <td>3%</td> </tr> <tr> <td>Cycle</td> <td>2%</td> </tr> </tbody> </table>	Mode	Share (%)	Public Transport	53%	Private Transport	25%	Walk	12%	Others	5%	Taxi	3%	Cycle	2%
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CHICAGO

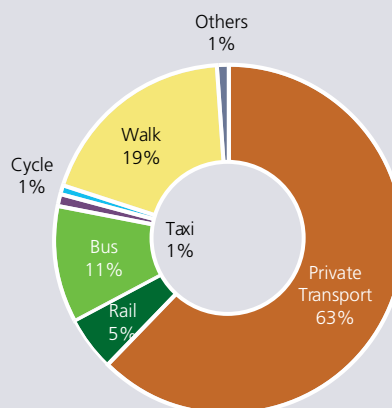
Population: 2.7 million
Area: 590km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 16% of all journeys.

Data Sources:

US Census
Chicago Regional Household Travel Inventory:
Mode Choice and Trip Purpose for the 2008 and
1990 Surveys

Figure 7: Mode share in Chicago (2008)**DELHI**

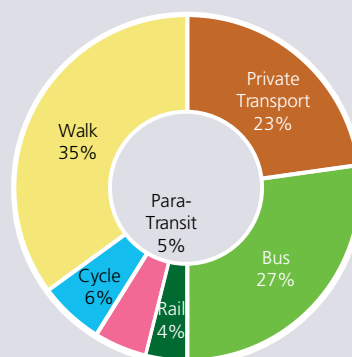
Population: 16.3 million
Area: 1,114 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 31% of all journeys.

Data Sources:

Statistical Abstract of Delhi, 2012
RITES Transport Demand Forecast Study for Dept.
of Transport, GNCTD, 2010

Figure 8: Mode share in Delhi (2008)**GUANGZHOU³**

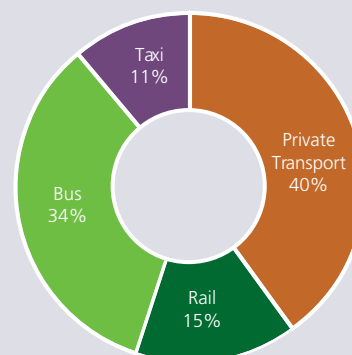
Population: 11.2 million
Area: 3,842 km²

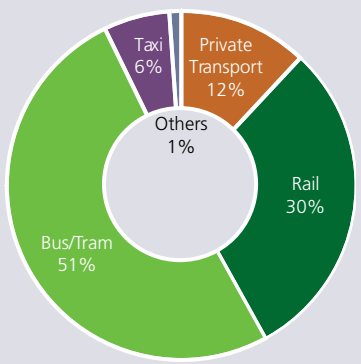
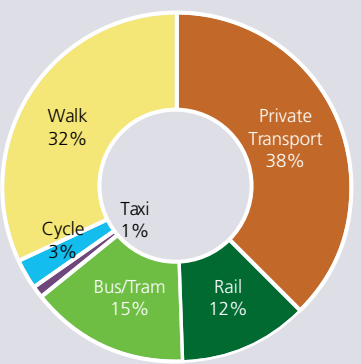
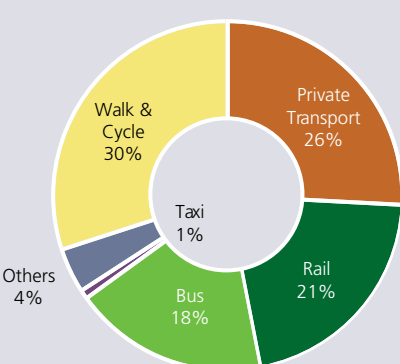
Mode share of motorised journeys

Based on the number of journeys by main mode of transport. It includes only motorised modes for all purposes. Mass public transport constitutes 49% of motorised journeys.

Data Sources:

Guangzhou Yearbook 2013
Guangzhou Urban Transport Report 2011 (in Chinese
only. 2011 广州市城市交通运行报告)

Figure 9: Mode share in Guangzhou (2011)

<p>HONG KONG</p> <p>Population: 7.2 million Area: 1,104 km²</p> <p>Mode share of motorised journeys Based on the number of boardings. It includes motorised trips only. Mass public transport constitutes 81% of boardings.</p> <p>Data Sources: Hong Kong Statistics, Census and Statistics Department Travel Characteristics Survey 2011, Transport Department, Hong Kong, 2014</p>	<p><i>Figure 10: Mode share in Hong Kong (2011)</i></p>  <table border="1"> <caption>Mode share in Hong Kong (2011)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Bus/Tram</td> <td>51%</td> </tr> <tr> <td>Rail</td> <td>30%</td> </tr> <tr> <td>Private Transport</td> <td>12%</td> </tr> <tr> <td>Taxi</td> <td>6%</td> </tr> <tr> <td>Others</td> <td>1%</td> </tr> </tbody> </table>	Mode	Share (%)	Bus/Tram	51%	Rail	30%	Private Transport	12%	Taxi	6%	Others	1%		
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<p>LONDON</p> <p>Population: 8.4 million Area: 1,595 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 27% of all journeys.</p> <p>Data Sources: Land Area and Population Density, GLA London Travel Demand Survey (LTDS) 2013, Transport for London</p>	<p><i>Figure 11: Mode share in London (2011/12)</i></p>  <table border="1"> <caption>Mode share in London (2011/12)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>38%</td> </tr> <tr> <td>Walk</td> <td>32%</td> </tr> <tr> <td>Bus/Tram</td> <td>15%</td> </tr> <tr> <td>Rail</td> <td>12%</td> </tr> <tr> <td>Cycle</td> <td>3%</td> </tr> <tr> <td>Taxi</td> <td>1%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	38%	Walk	32%	Bus/Tram	15%	Rail	12%	Cycle	3%	Taxi	1%
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<p>MADRID</p> <p>Population: 3.3 million Area: 604 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 39% of all journeys.</p> <p>Data Sources: Informe del Estado de la Movilidad de la Ciudad de Madrid 2011</p>	<p><i>Figure 12: Mode share in Madrid (2011)</i></p>  <table border="1"> <caption>Mode share in Madrid (2011)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>26%</td> </tr> <tr> <td>Walk & Cycle</td> <td>30%</td> </tr> <tr> <td>Bus</td> <td>18%</td> </tr> <tr> <td>Rail</td> <td>21%</td> </tr> <tr> <td>Others</td> <td>4%</td> </tr> <tr> <td>Taxi</td> <td>1%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	26%	Walk & Cycle	30%	Bus	18%	Rail	21%	Others	4%	Taxi	1%
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MUMBAI

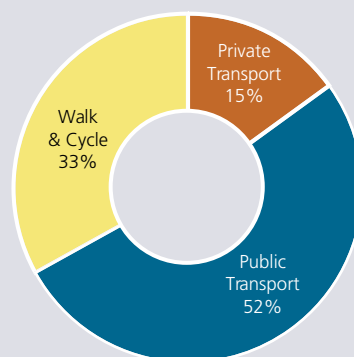
Population: 12.7 million
Area: 603 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 52% of all journeys.

Data Sources:

Census India 2011
Indian Cities Transport Indicators

Figure 13: Mode share in Mumbai (2007)**NEW YORK**

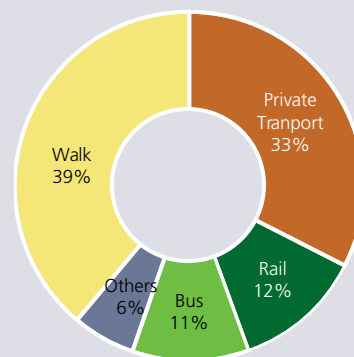
Population: 8.4 million
Area: 784 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 33% of all journeys.

Data Sources:

Population and Land Area, Department of City Planning, New York
New York State 2009 NHTS Comparison Report

Figure 14: Mode share in New York (2009)**OSAKA**

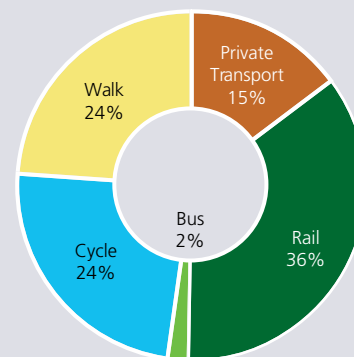
Population: 2.7 million
Area: 223 km²

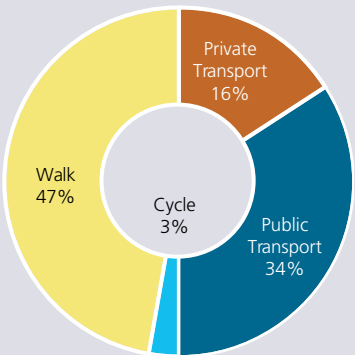
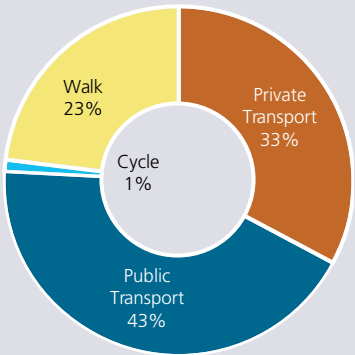
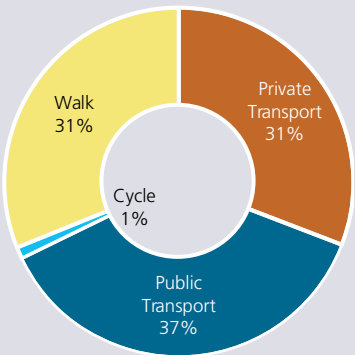
Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 38% of all journeys.

Data Sources:

Osaka 5th Travel Survey Report 2012 (in Japanese, 平成22年第5回近畿圏パーソントリップ調査集計結果から)

Figure 15: Mode share in Osaka (2012)

<p>PARIS (Main City)</p> <p>Population: 2.3million Area: 105 km²</p> <p>Mode share in main city Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 34% of all journeys.</p> <p>Data Sources: INSEE, Population Travel survey report (in French, La mobilité des Français, panorama issu de l'enquête nationale transports et déplacements 2008)</p>	<p><i>Figure 16: Mode share in Paris (2008)</i></p>  <table border="1"> <caption>Mode share in Paris (2008)</caption> <thead> <tr> <th>Mode</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Walk</td> <td>47%</td> </tr> <tr> <td>Public Transport</td> <td>34%</td> </tr> <tr> <td>Private Transport</td> <td>16%</td> </tr> <tr> <td>Cycle</td> <td>3%</td> </tr> </tbody> </table>	Mode	Percentage	Walk	47%	Public Transport	34%	Private Transport	16%	Cycle	3%
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<p>PRAGUE</p> <p>Population: 1.2 million Area: 496 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 43% of all journeys.</p> <p>Data Sources: Prague Transportation Yearbook 2013, Prague</p>	<p><i>Figure 17: Mode share in Prague (2013)</i></p>  <table border="1"> <caption>Mode share in Prague (2013)</caption> <thead> <tr> <th>Mode</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Public Transport</td> <td>43%</td> </tr> <tr> <td>Private Transport</td> <td>33%</td> </tr> <tr> <td>Walk</td> <td>23%</td> </tr> <tr> <td>Cycle</td> <td>1%</td> </tr> </tbody> </table>	Mode	Percentage	Public Transport	43%	Private Transport	33%	Walk	23%	Cycle	1%
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<p>SAN PAULO</p> <p>Population: 20.0 million Area: 7,944 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 37% of all journeys.</p> <p>Data Sources: San Paulo Household Mobility Survey 2012 Main Result (in Portuguese, PESQUISA DE MOBILIDADE DA REGIÃO METROPOLITANA DE SÃO PAULO, PRINCIPAIS RESULTADOS PESQUISA DOMICILIAR, DEZEMBRO DE 2013)</p>	<p><i>Figure 18: Mode share in San Paulo (2012)</i></p>  <table border="1"> <caption>Mode share in San Paulo (2012)</caption> <thead> <tr> <th>Mode</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Public Transport</td> <td>37%</td> </tr> <tr> <td>Private Transport</td> <td>31%</td> </tr> <tr> <td>Walk</td> <td>31%</td> </tr> <tr> <td>Cycle</td> <td>1%</td> </tr> </tbody> </table>	Mode	Percentage	Public Transport	37%	Private Transport	31%	Walk	31%	Cycle	1%
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SEOUL

Population: 10.4 million
Area: 605 km²

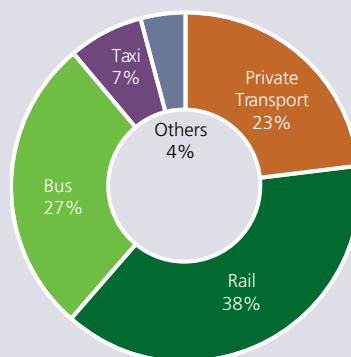
Mode share of motorised journeys

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 65% of all journeys.

Data Sources:

Seoul statistics - Population Trend
Seoul Statistics 2013

Figure 19: Mode share in Seoul (2013)



SHANGHAI⁴

Population: 16.4 million
Area: 2,141 km²

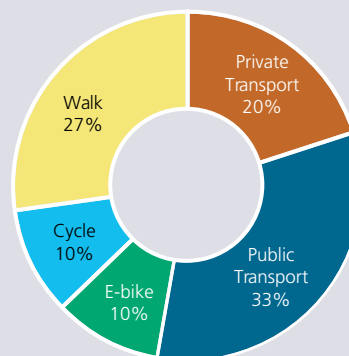
Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 33% of all journeys.

Data Sources:

Shanghai Yearbook 2011
Shanghai Construction and Transport Commission 2009
(data provided directly)

Figure 20: Mode share in Shanghai (2009)



SINGAPORE

Population: 5.5 million
Area: 718 km²

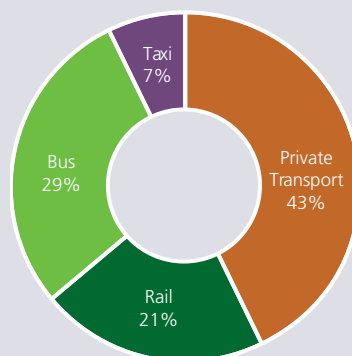
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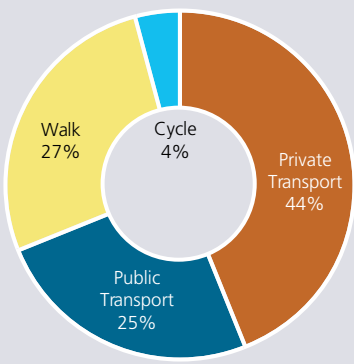
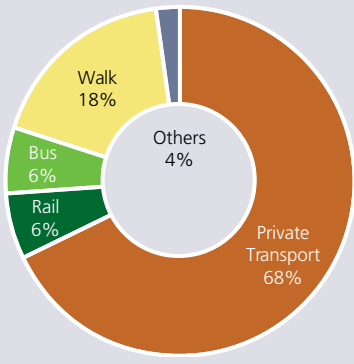
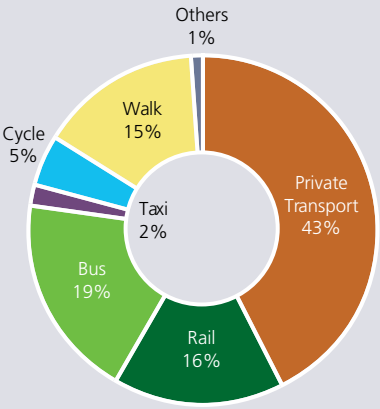
Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 50% of motorised journeys.

Data Sources:

Population & Land Area, Department of Statistics,
Singapore
Household Interview Travel Survey 2012

Figure 21: Mode share in Singapore (2012)



<p>STOCKHOLM (Metropolitan)</p> <p>Population: 2.2 million Area: 6,526 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 25% of all journeys.</p> <p>Data Sources: Facts about SL and the metropolitan area in 2012</p>	<p><i>Figure 22: Mode share in Stockholm (2011)</i></p>  <table border="1"> <caption>Mode share in Stockholm (2011)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>44%</td> </tr> <tr> <td>Public Transport</td> <td>25%</td> </tr> <tr> <td>Walk</td> <td>27%</td> </tr> <tr> <td>Cycle</td> <td>4%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	44%	Public Transport	25%	Walk	27%	Cycle	4%						
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<p>SYDNEY</p> <p>Population: 4.8 million Area: 12,368 km²</p> <p>Mode share Based on the number of unlinked trips, except for trips by walking only. It includes all modes for all purposes. Public transport constitutes 12% of all trips.</p> <p>Data Sources: Australian Bureau of Statistics 2011/2012 Household Travel Survey - Key Indicators for Sydney</p>	<p><i>Figure 23: Mode share in Sydney (2011/12)</i></p>  <table border="1"> <caption>Mode share in Sydney (2011/12)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>68%</td> </tr> <tr> <td>Walk</td> <td>18%</td> </tr> <tr> <td>Others</td> <td>4%</td> </tr> <tr> <td>Bus</td> <td>6%</td> </tr> <tr> <td>Rail</td> <td>6%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	68%	Walk	18%	Others	4%	Bus	6%	Rail	6%				
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<p>TAIPEI</p> <p>Population: 2.7 million Area: 272 km²</p> <p>Mode share Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Mass public transport constitutes 35% of all journeys.</p> <p>Data Sources: Taipei Yearbook 2013 Travel Survey 2013 (in Chinese, 102年民眾日常使用運具狀況調查)</p>	<p><i>Figure 24: Mode share in Taipei (2013)</i></p>  <table border="1"> <caption>Mode share in Taipei (2013)</caption> <thead> <tr> <th>Mode</th> <th>Share (%)</th> </tr> </thead> <tbody> <tr> <td>Private Transport</td> <td>43%</td> </tr> <tr> <td>Bus</td> <td>19%</td> </tr> <tr> <td>Rail</td> <td>16%</td> </tr> <tr> <td>Walk</td> <td>15%</td> </tr> <tr> <td>Cycle</td> <td>5%</td> </tr> <tr> <td>Taxi</td> <td>2%</td> </tr> <tr> <td>Others</td> <td>1%</td> </tr> </tbody> </table>	Mode	Share (%)	Private Transport	43%	Bus	19%	Rail	16%	Walk	15%	Cycle	5%	Taxi	2%	Others	1%
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Others	1%																

TOKYO (23-Ward)

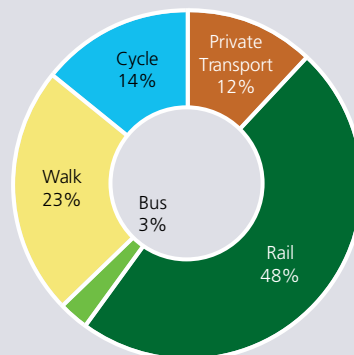
Population: 9.1 million
Area: 623 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 51% of all journeys.

Data Sources:

Tokyo Statistics Population Estimates
Tokyo Metropolitan Travel Survey 2008 (第5回東京都市圏パーソントリップ調査(交通実態調査), 平成20年, in Japanese)

Figure 25: Mode share in Tokyo (2008)**TORONTO**

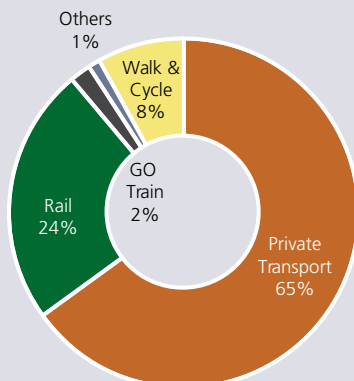
Population: 2.6 million
Area: 634 km²

Mode share

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 26% of all journeys.

Data Sources:

2011 Transportation Tomorrow Survey

Figure 26: Mode share in Toronto (2011)**VIENNA**

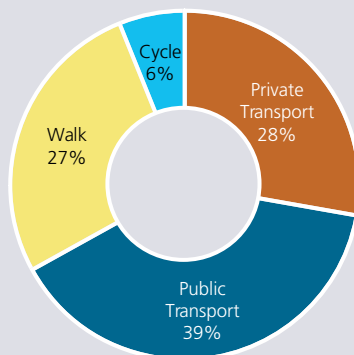
Population: 1.8 million
Area: 415 km²

Mode share of motorised journeys

Based on the number of journeys by main mode of transport. It includes all modes for all purposes. Public transport constitutes 39% of all journeys.

Data Sources:

Vienna Wiener Linien Facts and Figures 2013

Figure 27: Mode share in Vienna (2013)

Notes

1. Population and area of Bangalore includes 11 zones, covering Bruhat Bangalore Mahanagara Palike (BBMP) and Bangalore International Airport Area Planning Authority (BIAAPA).
2. Population and land area of Beijing include main districts only.
3. Population and land area of Guangzhou include 10 urban districts only.
4. Population and land area of Shanghai include main districts only: huangpu, xuhui, changning, jingan, putuo, zhabeing, hongkou, yangpu, minghang, pudong.