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Mobility in cities database

- User friendly database of 120 urban mobility indicators in 50 cities
 - Analysis of the role of public transport and recommendations for sustainable mobility
 - Information on the evolution of urban transport policies in 30 cities
- Planning, decision-making and research in the field of urban transport all need reliable and comparable data. The Mobility in Cities Database developed by UITP responds to this need and provides urban transport professionals with **quantitative** and **qualitative data** on the economics of urban mobility based on the study of a sample of 50 cities from around the world (1).

Public transport advocacy

The economic and environmental benefits of sufficiently dense urban development patterns supported by an efficient public transport network are well established. This study provides fresh data to further **strengthen arguments in favour of public transport**. Effective policy messages and practical recommendations are developed through the analysis of the data.

Comparisons between cities

The study allows informed comparisons between cities. The data is presented in a standardised way, which allows cities to be compared at a glance. The large number of cities enables **like with like comparisons** to be made and the wide range of indicators means that **sophisticated analyses** are possible. Information on urban transport policies implemented at city-wide level enable an understanding of differences in performance between cities.

A source for further research

Such a wealth of data can be used as a basis for analysing many aspects of urban transport. The analysis developed by UITP focuses on the role of public transport but **many extensions** are possible.

(1) This project follows in the steps of the Millennium Cities Database for Sustainable Transport. Added Value The project results are available on a userfriendly **CD-ROM** which contains the following:

Database

The database contains a set of **120 indicators** collected in a sample of **50 cities** worldwide using **2001** as the year of reference. The easy-to-use interface enables the database to be searched by location, by theme or by a combination of the two. Data may be exported into a spreadsheet format for further use. Each indicator was carefully defined and the geographical perimeter of each city was clearly specified. Collected data were adjusted to fit with those definitions.

The availability-rate of data is over 90%.

Analysis and recommendations

The analysis focuses on the **determinants** of the **cost** and the **performance** of the urban transport system and shows to what extent a higher use of public transport means a lower cost of transport for the community and lower energy consumption for transport. It also emphasises the **compared performance** of public transport and private cars. Public transport **attractiveness factors** are

identified. Finally, the analysis describes the **evolution** of public transport networks and their performance between 1995 and 2001.

City fact sheets

City fact sheets show the evolution in the situation and performance of cities in the wake of transport policies implemented at local level. More precisely, city fact sheets contain information on policies and actions undertaken or planned during the 1991-2001 and 2001-2010 periods respectively, in 30 cities, in the fields of:

- **town planning and transport** (limiting of urban sprawl, integration of town and public transport planning, rules capping the construction of parking spaces);
- **demand management and control of car traffic** (parking restrictions and regulations, controlled access to city centre, pedestrianised areas and low traffic zones, urban toll);
- **development of public transport** (investment, extension of reserved routes and priority schemes, improvement of service quality, price scale);
- **organisation and integration.**

The analysis report and the city fact sheets are available in **English, French, German** and **Spanish**.

The cities:

< [A fact sheet is available for this city](#)

< Amsterdam

< Helsinki

< Rome

< Chicago

< Athens

Krakow

Rotterdam

Dubai

Barcelona

< Lille

Seville

< Hong Kong

< Berlin

< Lisbon

< Stockholm

Melbourne

< Bern

< London

Stuttgart

São

Paulo

Bilbao

< Lyons

Tallinn

< Singapore

< Bologna

< Madrid

Turin

Tunis

< Brussels

< Manchester

Valencia

Budapest
< Marseilles
< Vienna
Clermont-Ferrand
Milan
Warsaw
< Copenhagen
Moscow
< Zurich
Dublin
< Munich
< Geneva
< Nantes
Ghent
< Newcastle
< Glasgow
< Oslo
< Graz
< Paris
Hamburg
< Prague

The indicators

Background information on the city

Definition of the metropolitan area

Definition of the Central Business District

Population

Urban population density

Urban population + job density

Proportion of jobs in the Central Business District

GDP per inhabitant (EUR)

Public transport modes operated

Private transport infrastructure

Length of road per thousand inhabitants

Length of motorway per thousand inhabitants

Length of road per urban hectare

Length of motorway per urban hectare

Parking spaces per thousand jobs in the Central Business District

Public transport infrastructure

Length of reserved public transport routes per thousand inhabitants

Length of reserved public transport routes per urban hectare

Park & ride facilities per thousand inhabitants

Park & ride facilities per urban hectare

Private passenger vehicles: supply and use

Passenger cars per thousand inhabitants

Motorcycles per thousand inhabitants

Private passenger vehicles per thousand inhabitants

Average annual distance travelled per private passenger vehicle

Average passenger car occupancy rate

Taxis and collective taxis: supply and use

Taxis and collective taxis per thousand inhabitants

Road traffic

Annual private passenger vehicle kilometres per kilometre of road

Average speed on the road network

Public transport supply

Total public transport vehicles per million inhabitants

Buses per million inhabitants

Tramway vehicles per million inhabitants

Light rail vehicles per million inhabitants

Metro vehicles per million inhabitants

Suburban railway vehicles per million inhabitants

Other public transport vehicles per million inhabitants

Total public transport vehicle kilometres per inhabitant

Bus kilometres per inhabitant

Tramway vehicle kilometres per inhabitant

Light rail vehicle kilometres per inhabitant

Metro vehicle kilometres per inhabitant

Suburban railway vehicle kilometres per inhabitant

Other public transport vehicle kilometres per inhabitant

Database

Indicators

Total public transport vehicle kilometres per urban hectare

Bus kilometres per urban hectare

Tramway vehicle kilometres per urban hectare

Light rail vehicle kilometres per urban hectare

Metro vehicle kilometres per urban hectare

Suburban railway vehicle kilometres per urban hectare

Other public transport vehicle kilometres per urban hectare

Total public transport place kilometres per inhabitant

Bus place kilometres per inhabitant

Tramway place kilometres per inhabitant

Light rail place kilometres per inhabitant

Metro place kilometres per inhabitant

Suburban railway place kilometres per inhabitant

Other public transport place kilometres per inhabitant

Total public transport place kilometres per urban hectare

Bus place kilometres per urban hectare

Tramway place kilometres per urban hectare

Light rail place kilometres per urban hectare

Metro place kilometres per urban hectare

Suburban railway place kilometres per urban hectare

Other public transport place kilometres per urban hectare

Average public transport speed

Average public transport speed (road modes)

Average public transport speed (rail modes)

Mobility and modal split

Daily trips per inhabitant

Daily mechanised and motorised trips per inhabitant

Percentage of daily trips on foot and by bicycle

Percentage of daily trips by private motorised modes

Percentage of daily trips by public transport

Percentage of daily mechanised and motorised trips by bicycle

Percentage of daily mechanised and motorised trips by private motorised modes

Percentage of daily mechanised and motorised trips by public transport

Average distance of a private motorised trip

Average distance of a public transport trip

Average duration of a private motorised trip
 Average duration of a public transport trip
 Annual private motorised passenger kilometres (including taxi) per inhabitant
 Annual motorised passenger kilometres per inhabitant
 Annual public transport journeys per inhabitant
 Annual public transport passenger kilometres per inhabitant
Public transport productivity and operating cost
 Average public transport place occupancy rate (passenger kilometres / place kilometres)
 Recovery rate of public transport operating expenditure by farebox revenue
 Average operating cost of one public transport vehicle kilometre
 Average operating cost of one public transport place kilometre
 Average operating cost of one public transport passenger journey
 Average operating cost of one public transport passenger kilometre
 Average public transport farebox revenue per journey
Cost of transport for the traveler
 Cost of one private motorised passenger kilometre for the traveller
 Maximum cost of one hour of parking (off-road) in the Central Business District
 Maximum cost of one hour of parking (roadside) in the Central Business District
 Cost of one public transport passenger kilometre for the traveller
Cost of passenger transport for the community
 Road network investment, operation and maintenance expenditure in % of urban GDP
 Public transport investment expenditure in % of urban GDP
 Cost of passenger transport for the community in % of urban GDP
 Cost of private motorised transport for the community in % of urban GDP
 Cost of public transport for the community in % of urban GDP
 Annual road network investment, operation and maintenance expenditure per inhabitant
 Annual public transport investment expenditure per inhabitant
 Annual cost of passenger transport for the community per inhabitant
 Annual cost of private motorised transport for the community per inhabitant
 Annual cost of public transport for the community per inhabitant
Energy consumption for passenger transport
 Annual energy consumption for passenger transport per inhabitant (at vehicle)
 Annual energy consumption for passenger transport per inhabitant (at source)
 Energy consumption per private motorised passenger kilometre
 Energy consumption per public transport passenger kilometre (at vehicle)
 Energy consumption per public transport passenger kilometre (at source)
 Energy consumption per road based public transport passenger kilometre (at vehicle)
 Energy consumption per road based public transport passenger kilometre (at source)
 Energy consumption per rail based public transport passenger kilometre (at vehicle)
 Energy consumption per rail based public transport passenger kilometre (at source)
Passenger transport polluting emissions
 Annual polluting emissions due to passenger transport per inhabitant
 Annual polluting emissions due to passenger transport per urban hectare
Passenger transport fatalities
 Annual passenger transport fatalities per million inhabitants
 Annual passenger transport fatalities per billion motorised passenger kilometres
Private motorised transport and public transport (comparisons)
 Motorway length / Reserved public transport route length / Average speed on the road network / Average public transport speed
 Cost of one private motorised passenger kilometre for the traveller / Cost of one public transport passenger kilometre for the traveller
 Cost of one private motorised passenger kilometre for the community / Cost of one public transport passenger kilometre (excluding investment) for the community

Annual road network investment, operation and maintenance expenditure / Annual public transport investment expenditure
Annual private motorised passenger kilometres / Annual public transport passenger kilometres
Annual cost of private motorised transport for the community / Annual cost of public transport for the community
Energy consumption per private motorised passenger kilometre / Energy consumption per public transport passenger kilometre (at vehicle)
Energy consumption per private motorised passenger kilometre / Energy consumption per public transport passenger kilometre (at source)

This publication deals with Statistiche, Statistiek, Statistic, Statistique, Estadística, Openbaar vervoer, Transport public, Öffentlicher verkehr, Trasporto pubblico, Public transport, Europe, EU, europa, union europea, UE, transporte publico, Urban Mobility, Economics, Mobility, City, Cities, Place kilometer, Place kilometre, Passenger kilometer, Passenger kilometre, voyager kilometer, voyager kilometre, bus, coverage rate, Length, Road, Length of road, Inhabitants, Urban density, Motorway, Central business district, Park and ride, Passenger, vehicle kilometer, vehicle kilometre, Kilometer, kilometre, taxi, light rail, metro, suburban railway, train, tramway, speed, rail mode, road mode, motorised trips, trips, Road traffic, Daily trips, Average distance, Occupancy rate, Operating cost, Modal split, Bicycle, Statistics, passenger journey, revenue, farebox revenue, cost of transport, parking, off-road, investment, urban GDP, energy consumption, polluting emissions, fatalities, passenger transport, road side, cost, traveler, database, planning, urban transport, comparison, indicator, town planning, number, policy, Amsterdam, Helsinki, Rome, Chicago, Athens, Krakow, Rotterdam, Dubai, Barcelona, Lille, Seville, Hong Kong, Berlin, Lisbon, Stockholm, Melbourne, Bern, London, Stuttgart, São Paulo, Bilbao, Lyons, Tallinn, Singapore, Bologna, Madrid, Turin, Tunis, Brussels, Manchester, Valencia, Budapest, Marseilles, Vienna, Clermont-Ferrand, Milan, Warsaw, Copenhagen, Moscow, Zurich, Dublin, Munich, Geneva, Nantes, Ghent, Newcastle, Glasgow, Oslo, Graz, Paris, Hamburg, Prague, Roma, Atenas, Cracovia, Berlín, Lisboa, Estocolmo, Berna, Londres, Lyon, Tallin, Singapur, Bolonia, Turín, Túnez, Bruselas, Marsella, Viena, Milán, Varsovia, Copenhague, Moscú, Zúrich, Dublín, Múnich, Ginebra, Gante, París, Hamburgo, Praga, Rom, Athen, Krakau, Sevilla, Hongkong, Lissabon, Singapur, Brüssel, Wien, Mailand, Warschau, Kopenhagen, Moskau, Zürich, München, Genf, Prag, Athène, Barcelone, Seville, Bologne, Bruxelles, Copenhague, Geneve, Gent, Gand, Hambourg, Krakovie, Lisbonne, Marseille, Moscou, Valence, Vienne, Varsovie, Singapour, Atene, San paulo, Amburgo, Barcellona, Berlino, Berna, Bonn, Dublino, Ginevra, Lisbona, Londra, Parigi, Praga, Marsiglia, Siviglia, Stoccarda, Milano, Mosca, Monaco di baviera, Torino, Varsavia, Zurigo, Tunisi, Cracovia, København, Athina, Warszawa, Helsingin, Praha, Moskva,