

PTx2 Scenarios:

The benefits of doubling the public transport market share worldwide by 2025



Background information

The following are two scenarios starting from 2005 to 2025:

- What happens in a business as usual scenario (**BAU**)
- What benefits does public transport bring if its market share doubles by 2025 (**PTx2**)?

Business as usual projections and performance indicators have been produced through a mobility model developed by **the International Energy Agency**.

Projections are based on demographic, economic and technological factors.

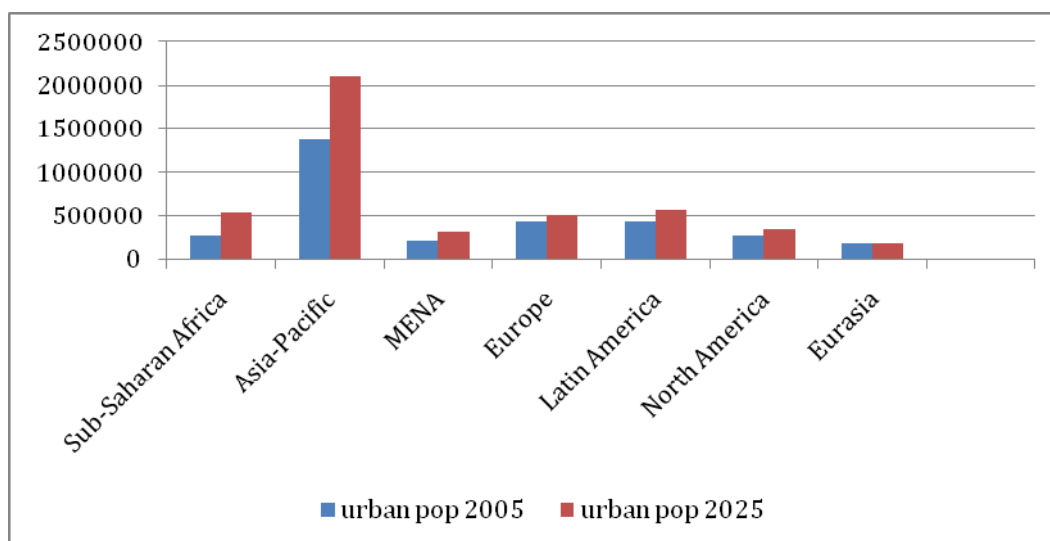
All figures refer to **mobility in urban areas**.

Global facts and figures

Urban population between 2005 and 2025

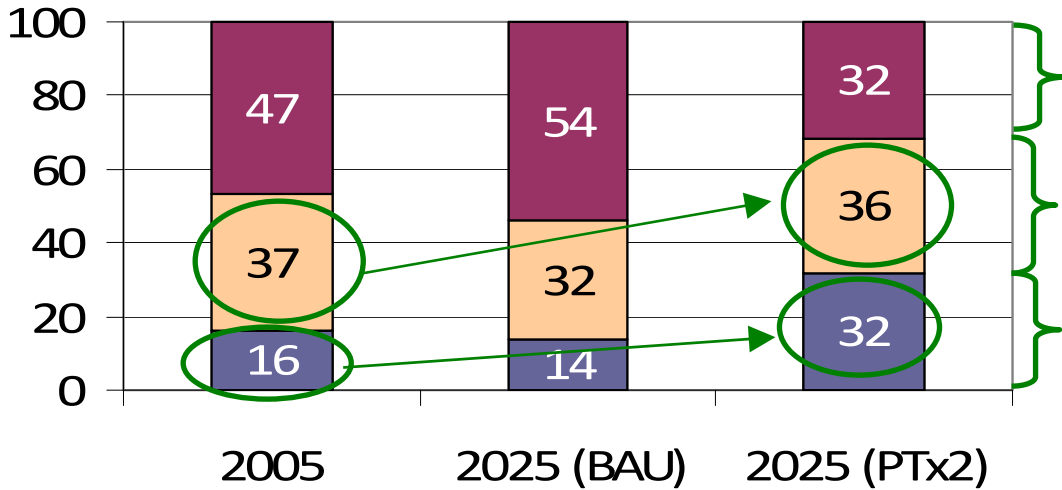
	Urban pop 2005	Urban pop 2025	% of each region in the world urban pop 2025
Sub-Saharan Africa	267.291	537.786	12
Asia-Pacific	1.381.911	2.104.670	46
MENA	204.091	313.702	7
Europe	434.086	497.931	11
Latin America	432.646	560.911	12
North America	270.535	340.490	8
Eurasia	176.153	180.436	4
World	3.166.711	4.535.925	100

Public transport provides mobility to **3.2 billion** city-dwellers (16% of trips made in urban areas)



Urban mobility between 2005 and 2025

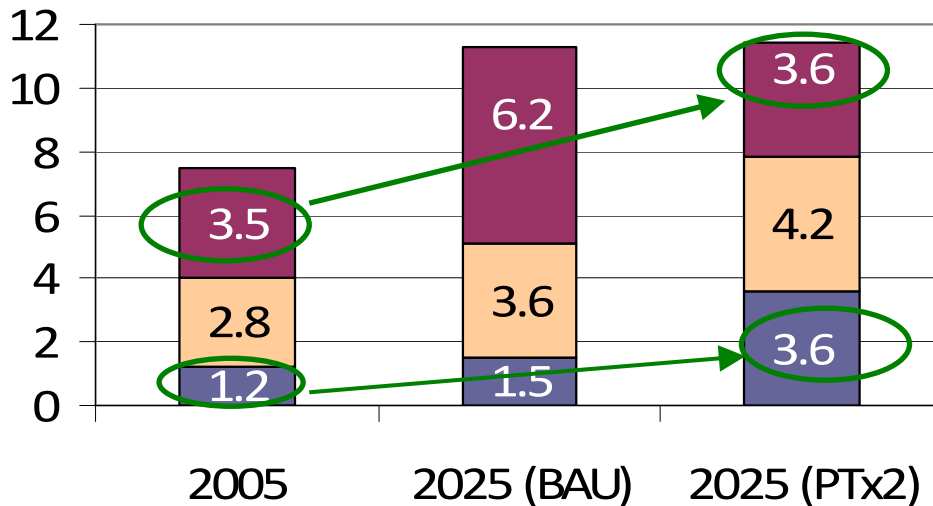
Modal split (% of daily trips)



Doubling the public transport market share by 2025 means:

- a stabilised non-motorized transport share;
- balanced modal share.

Daily trips (billions)



Public transport

Non motorized transport

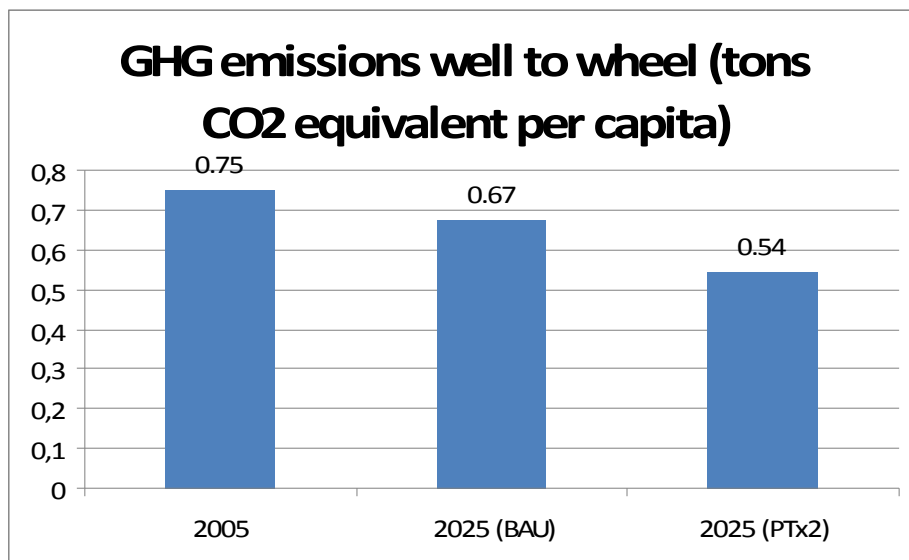
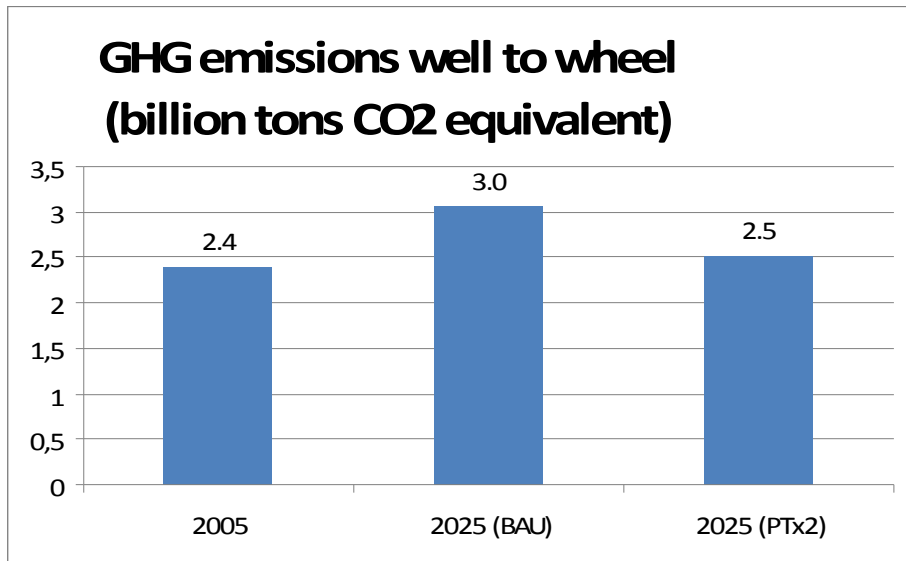
Private motorized transport



Doubling the public transport market share by 2025 means:

- stabilising private motorized transport (in number of trips);
- tripling public transport passenger trips.

Annual GHG emissions (well to wheel) from urban passenger transport (all modes)

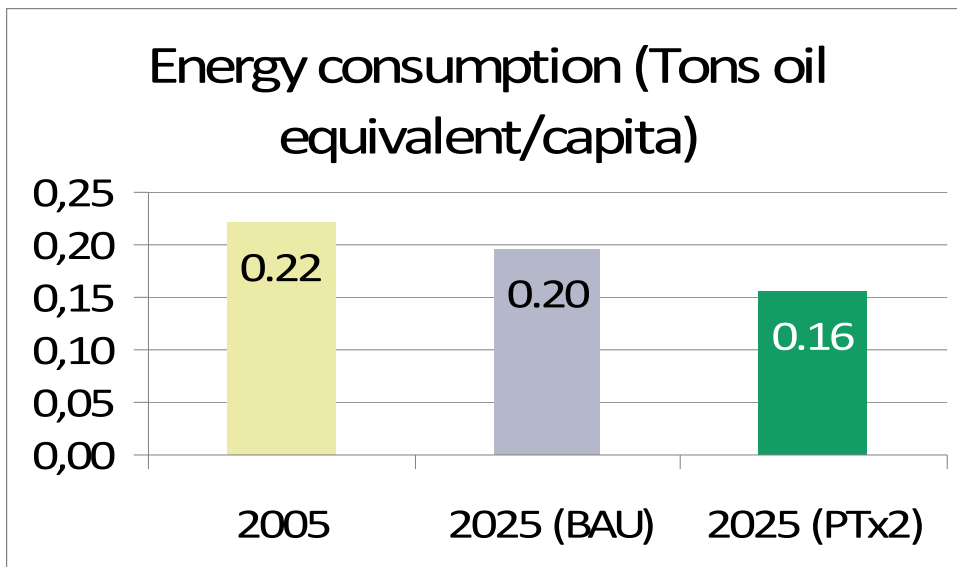
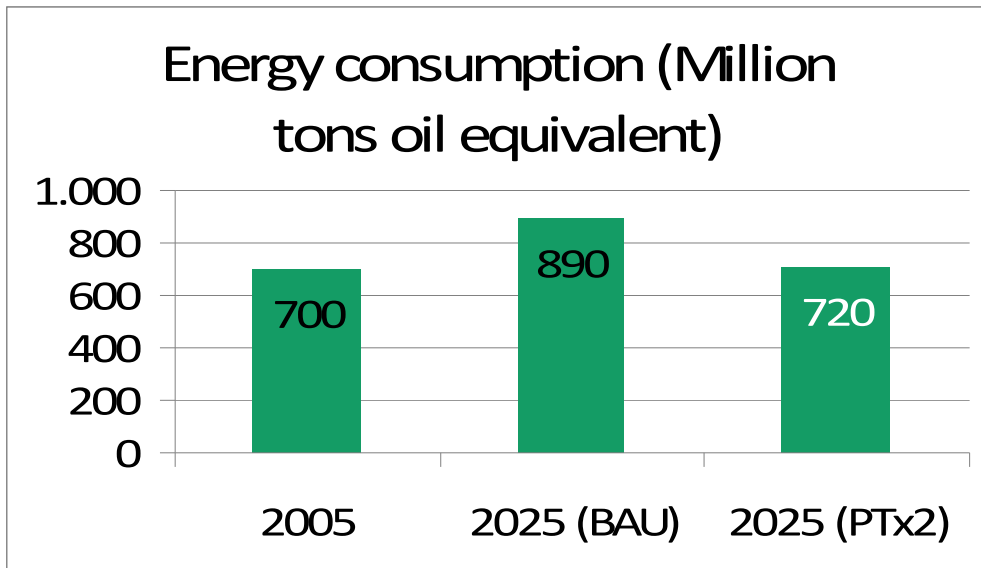


Doubling the public transport market share by 2025:

- In the PTx2 scenario, GHG emissions increase by only 4% between 2005 and 2025, while the number of trips in cities increases by 50%.
- 600 million tons CO2 equivalent avoided per year which represents the CO2 absorbed by 50 billion trees or a forest of 1 million km² (the total surface area of Egypt).
- PTx2 helps reduce GHG emissions by 20% compared to the BAU scenario.
- In the PTx2 scenario, the reduction of GHG emissions per capita is of 25% compared to 2005:
 - 40% of this reduction is due to technological advances
 - 60% of this reduction is due to modal shift (PTx2).



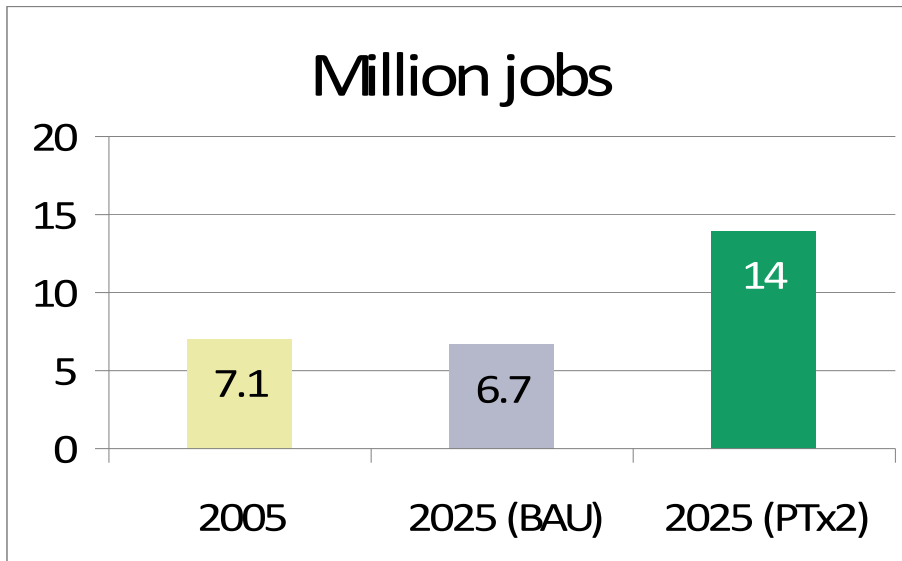
Annual energy consumption for urban passenger transport (all modes)



Doubling the public transport market share by 2025 means:

- 170 millions tons oil equivalent saved per year;
- 1.3 billion crude oil barrels or 650 supertankers saved per year;
- annual savings of \$140bn at today's rate (\$105/barrel).

Employees of public transport operators



Hypothesis: labour productivity increases by 1% per year



Doubling the public transport market share by 2025 means:

- doubling the number of employees for operators (+ 7 million jobs)
- at the same time labour productivity continues to keep increasing

Employment

All figures are valid for 2009

Whole public transport sector worldwide: **13 million** people employed (2009 data covers urban and suburban formal public transport - excluding interurban and long-distance transport, informal transport and taxis)

Breakdown by region

Highest density of employment in public transport: **Eurasia** (6.8 jobs for 1,000 urban residents)

Lowest density of employment in public transport: **Sub-Saharan Africa** (0.25 jobs for 1,000 urban residents)

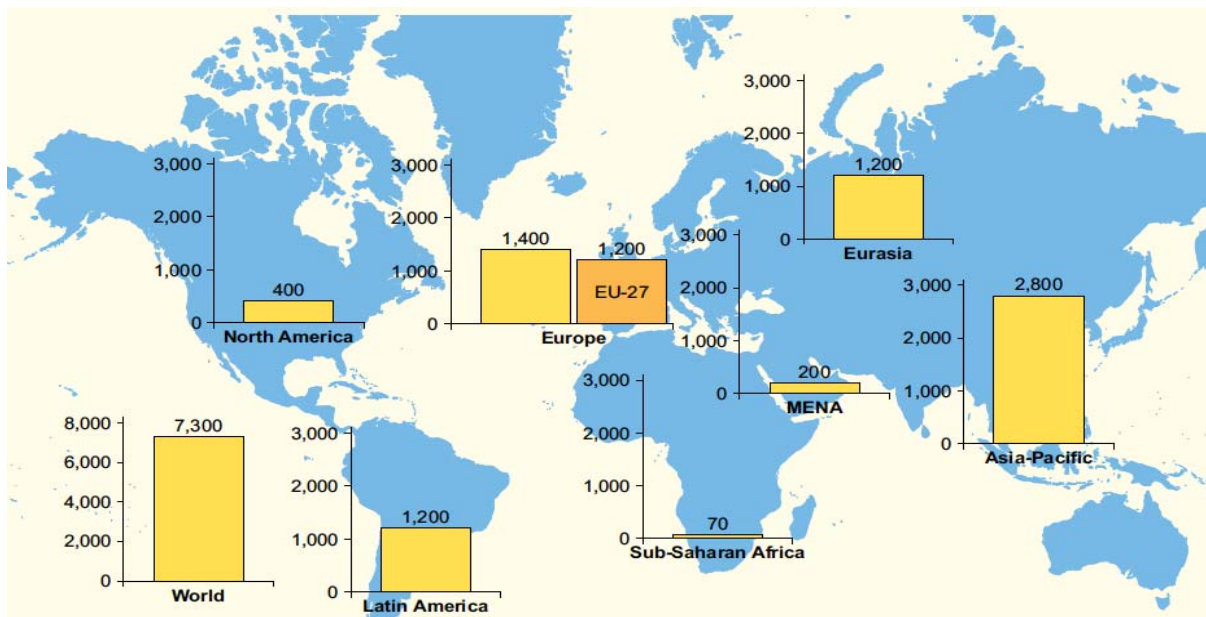


Figure: People employed by public transport operators in 2009 per UITP region (in thousands)

Breakdown by category

Operators: **7.3 million** people employed (full time equivalent)

Largest operator employer cities: Amsterdam, Barcelona, Brussels, Genoa, Dublin

Top 5 employers: Paris, Budapest, Porto, Madrid, Turin, Tallinn

Authorities: **300,000** people employed

Supply chain (provision of goods and services to operators and authorities):

5 million people employed

Comparison

13 million = population of the **Netherlands** or **Ecuador**

The air transport sector employs 12 million people worldwide (airlines, airports, supply chain, for passenger and freight)

Source: Air Transport Action Group

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