ITF Transport Outlook 2017

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What’s new in the 2017 edition

• Covering all modes of transport:
  – Global model for mobility in cities (1692 cities above 300,000 inhabitants)
  – International passenger aviation

• Collecting results from all the ITF models:
  – Global passenger and freight transport demand by mode
  – Global CO₂ emissions by sector, under two scenarios
    • Baseline
    • Low-carbon

• Accessibility: in cities, by air

• Capacity needs for freight transport
Historical emissions

Source: IEA
Outlook for passenger demand

Passenger transport demand (billion pkm) by mode
**Urban vs non-urban passenger travel**

- Non-urban travel is less visible in the transport policy agenda
- But far from insignificant

<table>
<thead>
<tr>
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<th>Motorised pkms</th>
<th>CO₂ emissions</th>
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</thead>
<tbody>
<tr>
<td>Urban</td>
<td>+95%</td>
<td>+37%</td>
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<tr>
<td>Domestic non-urban</td>
<td>+157%</td>
<td>+83%</td>
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**Growth in motorised pkms and CO₂ emissions between 2015 and 2050**
Emissions in cities

- Behavioural measures: 25%
- Direct impact of pricing: 5%
- Alternative fuels: 15%
- Fuel efficiency: 55%

Bar chart showing emissions in cities from 2015 to 2050 baseline and low-carbon scenarios.
Road freight

• Operational measures can represent more than 50% of fuel savings/CO₂ emissions by 2050
  – Routing optimisation
  – Asset sharing
  – Relaxing of delivery window

• Alternative fuels could become predominant in some contexts
  – Electric deliveries in urban areas
  – Biofuels or LNG for long-distance trucking

• Realistically, the sector will rely on fuel efficiency in the medium/long term
Currently foreseeable policies to mitigate transport CO$_2$ are not sufficient to achieve climate ambitions

- Transport will emit c. 7.5 giga-tonnes of CO$_2$ in 2050, roughly the same as in 2015
- Accelerated innovation and radical policy choices on issues such as shared mobility, changes in supply chains, new transport modes are required.
Thank you
Intergovernmental Organisation
linked to OECD
57 member countries

Think Tank
Policy analysis and research
Data and statistics

Annual Summit
Forum for Ministers, industry, all transport stakeholders
Global passenger demand

Passenger transport demand (billion pkm) by mode