Internalising the external costs of transport

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# Impact of urban transport in the EU

<table>
<thead>
<tr>
<th>Air pollution</th>
<th>Climate change</th>
<th>Noise</th>
<th>Congestion</th>
<th>Traffic accidents</th>
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</thead>
</table>
| • Urban population exposed to levels beyond WHO guidelines:  
  • PM2.5: 74-85%  
  • PM10: 42-52%  
  • O3: 95-98%  
  • NO2: 7-8%  
  • BaP: 85-90%  
  • SO2: 21-38% | • Contributes to 40% of CO2 emissions from total road transport | • 62% of major city populations are exposed to long-term average traffic noise above 55db | • Approx. EUR 100bn cost per annum or ~1% of EU’s GDP from urban transport | • 25,300 fatalities and 135,000 seriously injured  
• 37% of these occur in urban areas |
City authority policy instruments and measures to address external costs

- **Policies and measures**
  - **Fiscal policies**
    - Charging for efficient use
    - Tax incentives for land use
    - Parking charges
    - Congestion and low emission zones
    - Public transport tickets
  - **Regulatory policies**
    - Speed limits
    - Access Restriction Schemes
    - Public Transport quality
  - **Planning and Investment**
    - Urban planning
    - Procurement strategies
    - Infrastructure
    - Transport telematics
    - Public Transport and freight
    - Active travel modes
  - **Other instruments**
    - Awareness campaigns and information
  - **Transport telematics**
    - **Other**
    - **Awareness campaigns and information**
City authority policy instruments to directly internalise external costs

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<tr>
<th>Road transport</th>
<th>Inland navigation</th>
<th>Aviation</th>
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</table>
| • Urban road pricing schemes | • Port charges  
• Locks and bridges charges | • Landing and take-off charges  
• Noise charge  
• Emissions charge |
Urban vehicle access regulations

- Low emission zones (LEZs)
  - Primarily prohibitive (i.e. fine for noncompliance)
  - Typically based on EURO emission classes

- Urban road tolls
  - Fee and time based

- Key Access Regulation Schemes (Key-ARS)
  - Permit required
  - Access at fixed periods
  - Certain vehicles

Source: CLARS, urbanaccessregulations.eu
Sustainable Urban Mobility Plans

Integrated, strategic, long-term transport plan with clear goals and monitoring, for better accessibility, and quality of life for the functional urban area!