Declaration on Best Tyres

Mr Henk Wolfert
Centre for Environmental Expertise, DCMR EPA, Schiedam, The Netherlands

Two parts

• A. Potential of using Best Tyres
  – Johan Sliggers

• B. Declaration on Best Tyres
  – Henk Wolfert
A. Potential of using Best Tyres

• Tyre label
• ‘Triple A studies’
• Fleets on Best tyres
Tyre label
1 Extra fuel costs per year (17000 km/yr)

2 Extra braking distance wet road at 80 km/h (Braking distance A=27 m)

3 Noise*
   - A: 2 times as quiet
   - B: average
   - C: 2 times as loud

* Doubling noise is 3 dB
Triple-A tyres – benefits for environment, noise, safety and economy

• Potential benefits of Triple-A tyres in the Netherlands, the EU and Rotterdam

• Rotterdam
  – 0.626 million inhabitants
  – Area 210 km²
  – Roads/streets 1100 km
  – 5 billion km (10% heavy duty)
## Benefits Triple A in EU

<table>
<thead>
<tr>
<th>Potential benefits</th>
<th>Energy</th>
<th>Safety</th>
<th>Noise</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual fuel savings [ billion l]</td>
<td>17</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Annual CO₂ reduction [ MtCO₂]</td>
<td>42</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reduced number of fatalities</td>
<td>-</td>
<td>2567</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reduced number of slight/serious injuries</td>
<td>-</td>
<td>19631/12353</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Reduced number of annoyed people [millions]</td>
<td>-</td>
<td>-</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Reduced number of sleep disturbed people [millions]</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Annual cost savings [ billion €]</td>
<td>13</td>
<td>10</td>
<td>11</td>
<td>34</td>
</tr>
</tbody>
</table>
## Benefits Triple A (correct tyre pressure) in Rotterdam

<table>
<thead>
<tr>
<th>Potential benefits</th>
<th>Energy</th>
<th>Safety</th>
<th>Noise</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual fuel savings [ million l]</td>
<td>28 (6)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Annual CO$_2$ reduction [ tCO$_2$]</td>
<td>69(15)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reduced number of fatalities</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reduced number of slight/serious injuries</td>
<td>-</td>
<td>3/6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reduced number of annoyed people [thousands]</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.4</td>
</tr>
<tr>
<td>Reduced number of sleep disturbed people [thousands]</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5.7</td>
</tr>
<tr>
<td>Annual cost savings [ million €]</td>
<td>20.5</td>
<td>0.9</td>
<td>3.2</td>
<td>25</td>
</tr>
</tbody>
</table>
Fleets on Best Tyres

• Potential Benefits of energy-efficient tyres and correct tyre pressure maintenance of the vehicle fleets of:
  – Dutch National Road Authority (RWS)
  – Amsterdam
  – Rotterdam
Fleets on A for Energy and correct tyre pressure

<table>
<thead>
<tr>
<th>Potential benefits</th>
<th>RWS</th>
<th>Amsterdam</th>
<th>Rotterdam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of vehicles</td>
<td>1575</td>
<td>781</td>
<td>1097</td>
</tr>
<tr>
<td>Vehicle average [ km/yr ]</td>
<td>26000</td>
<td>17200</td>
<td>17200</td>
</tr>
<tr>
<td>Annual fuel savings (correct pressure) [ thousands ltr]</td>
<td>152 (26)</td>
<td>147 (33)</td>
<td>200 (45)</td>
</tr>
<tr>
<td>Annual CO$_2$ reduction [ ton CO$_2$]</td>
<td>388</td>
<td>379</td>
<td>514</td>
</tr>
<tr>
<td>Annual cost savings [ thousands €]</td>
<td>237</td>
<td>224</td>
<td>304</td>
</tr>
</tbody>
</table>
B. Declaration on Best Tyres

• Mr Henk Wolfert
  – Centre for Environmental Expertise, DCMR EPA, Schiedam, The Netherlands
B. Declaration on Best Tyres

• We Eurocities, aware that EU urban traffic causes:
  – Traffic accidents: 10,000 deaths in 2010
  – Poor air quality: 33% citizens exposed > Air Q. limits
  – Climate change: biggest contributer to CO₂
  – Noise exposure:
    • 50% citizens exposed > 55 dB $L_{DEN}$
    • 15% citizens exposed > 65 dB $L_{DEN}$
    • 10,000 premature deaths

• We also know that Better tyres:
  – have major benefits
  – are widely available
  – do not cost more
Declaration on Best Tyres

• We Eurocities declare to:
  – provide municipal fleets with ‘Best Tyres’
  – evaluate the progress
  – include ‘Best Tyres’ in our Green Procurement pol.
  – strive to achieve 50% ‘Best Tyres’ in 2020
  – provide municipal fleets with TPMS
  – consider a EU wide benchmark
  – endeavour to report every 2 years
Declaration on Best Tyres II

– contribute to stricter emission limit values for cars
– contribute to stricter emission limit values for tyres
– promote the use of ‘Best Tyres’
– call upon fleet-owners to apply ‘Best Tyres’
Declaration on Best Tyres

• Where/when can I sign up?
  – Invitation letter to all Eurocities
  – Signing at the combined meeting of POLIS and EUROCITIES mobility Forum 2016
  – Information
    • website www.best-tyres-now.eu
    • e-mail to henk.wolfert@dcmr.nl
Thank you for your attention

• References on the next sheet
References

  - Potential benefits of Triple-A tyres in the Netherlands, GRB-60-3
  - Potential benefits of Triple-A tyres in the EU, GRB-60-13

  - Potential benefits of Triple-A tyres and correct tyre pressure maintenance in Rotterdam, GRB-62-1
  - Potential Benefits of energy-efficient tyres and correct tyre pressure maintenance of the vehicle fleets of RWS, Amsterdam and Rotterdam, GRB-62-2