Lessons from the clean fuels and vehicles campaign in Africa

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Africa experiencing high vehicle grow
Partnership for Clean Fuels and Vehicles (PCFV) Systems Approach

- A systems approach links fuel quality to vehicle emission standards for max emission reduction benefits
- PCFV promotes cleaner fuels:
  - Lead free petrol
  - Low sulphur fuels - target is 50 ppm and below fuels
- strict vehicle emissions standards
  - Min Euro 4/IV vehicle emission standards
  - Support for I & M programs
June 2001
(A sub-regional agreement reached to phase out leaded gasoline by January 1, 2006)

September 2002
(PCFV was launched)

September 2003

September 2004

September 2005

January 2006
(prediction based on present commitments)
Support towards lead elimination

- Website to track progress
- Reports to guide countries
- Research on blood lead levels and on vegetables
- Workshops to sensitize stakeholders
Disseminate the benefits - Ghana

Lead concentration at various sites

Ghana EPA guideline (2.5 ug/m³)

Significantly lower ambient and blood lead levels after lead petrol phase out

Drop in blood lead level in Ghana after phasing out leaded gasoline in 2004

Mean blood lead levels (ug/dl)
Progress towards Low Sulphur Diesel

With full implementation of regionally adopted standards
The Global Trade in Used Light Duty Vehicles
# Used and New Vehicle registration in Tanzania and the Gambia

<table>
<thead>
<tr>
<th>Year of Registration</th>
<th>New</th>
<th>Used</th>
<th>Total</th>
<th>% New</th>
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<tr>
<td>2003</td>
<td>624</td>
<td>11,268</td>
<td>11,892</td>
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<td>2004</td>
<td>712</td>
<td>59,873</td>
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<td>2005</td>
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<td>2007</td>
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<td>29,298</td>
<td>30,951</td>
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<td>37,255</td>
<td>38,388</td>
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<td>37,639</td>
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<td>36,480</td>
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<td>37,115</td>
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<td>2013</td>
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<td>2014</td>
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<td>51,624</td>
<td>52,902</td>
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<td>2016</td>
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<td>2017</td>
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<td>33,942</td>
<td>34,813</td>
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<td>2018</td>
<td>1,311</td>
<td>39,632</td>
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<td><strong>Grand Total</strong></td>
<td><strong>19,751</strong></td>
<td><strong>665,170</strong></td>
<td><strong>684,921</strong></td>
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<td><strong>Percentage</strong></td>
<td><strong>2.9</strong></td>
<td><strong>97.1</strong></td>
<td><strong>100.0</strong></td>
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Vehicle exports to W. Africa match EOL Vehicles
LDV Emission Standards - actual and regional commitments
Africa imports the highest number of used vehicles compared to the other regions but the least number of used EVs.
Lessons learnt

- Clear **messaging** of the benefits esp economic and health
- Clear **goals** and targets backed by data - vehicles, emissions trends
- **Standards/regulations + incentives**
- Regionally **harmonized** standards and identify the early implementers
- Documentary **evidence** – few pilots
- **Outreach** - stakeholder sensitization
- **Partnerships** - government, private sector, civil society
- **Forward looking policies & strategies** e.g. EoL battery management – challenge with recycling of lead acid batteries
- **Integrated approach** to low carbon mobility – walking, cycling, public transport, energy