

# Global Efforts to Promote Cleaner Used Vehicles: Focus on Solutions



I – Benefits of a Global Approach

II – The Partnership for Clean Fuels and Vehicles

III – Towards a Global Response



# I. Why we need a global response to used vehicle flows

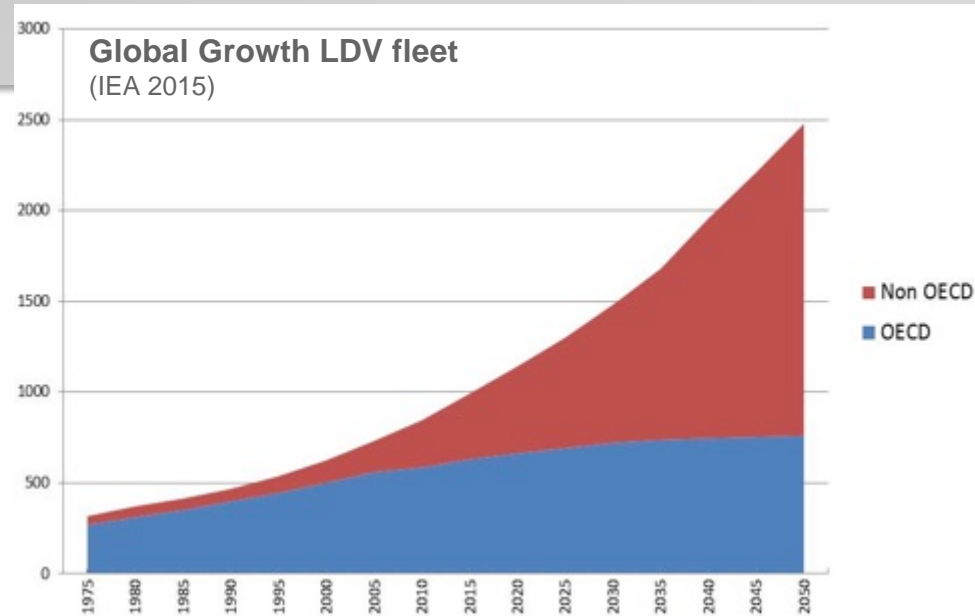
## Trends

- Used vehicles flows - best available technology?
- Vehicle age - rising
- Fuel economy/CO<sub>2</sub>, air quality, BC

## Response

- Voluntary approach
- Exporters & Importers
- Harmonization – closing policy gaps
- Systems approach – avoid fuel/vehicle mismatches

Not restricting but shifting to cleaner types  
Allows EVs, leapfrogging



The **Best** New Cars Make the **Best** Used Cars.

# www.unep.org/transport



Climate Change



Disasters & Conflicts



Ecosystem Management



Environmental Governance



Chemicals & Waste



Resource Efficiency



Environment Under Review



## TRANSPORT

PROMOTING SUSTAINABLE LOW EMISSIONS TRANSPORT



WHO WE ARE ▾

WHAT WE DO ▾

NEWS

EVENTS

RESOURCES ▾

### PARTNERSHIP FOR CLEAN FUELS AND VEHICLES (PCFV)

Improving urban air quality through cleaner fuels and vehicles

READ MORE



## II. A Partnership Approach



- Founded 2002 WSSD Johannesburg
- The leading global partnership for cleaner fuels and vehicles worldwide
- 73 industry and governments
- Leads by consensus
- Voluntary targets, campaigns
  1. *Lead-free fuels*
  2. *low sulfur (50 ppm or less) fuels*
  3. *complementary vehicle standards*
- **London, 2016: Used Vehicles Working Group, 5 year limit, emission standards**

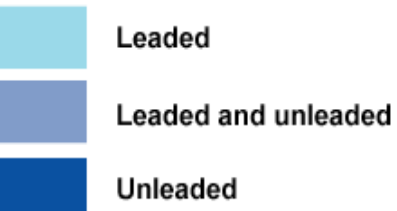
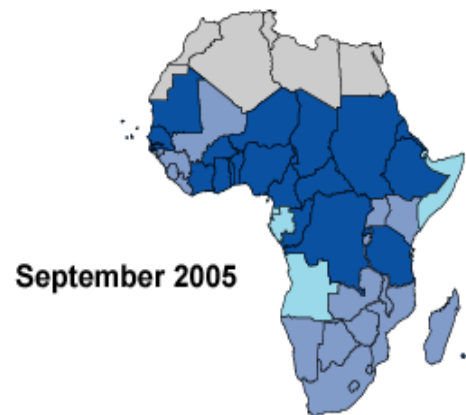
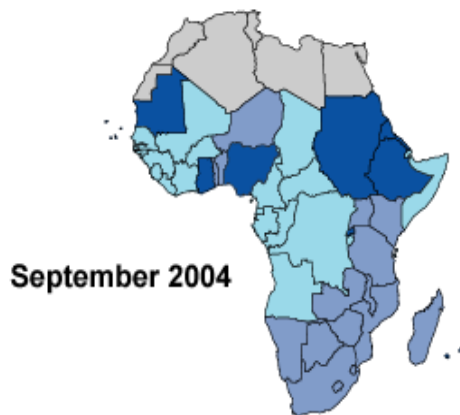
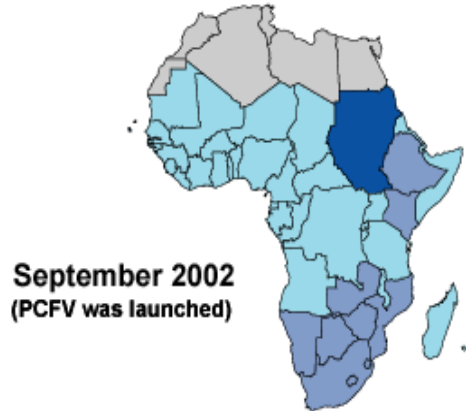
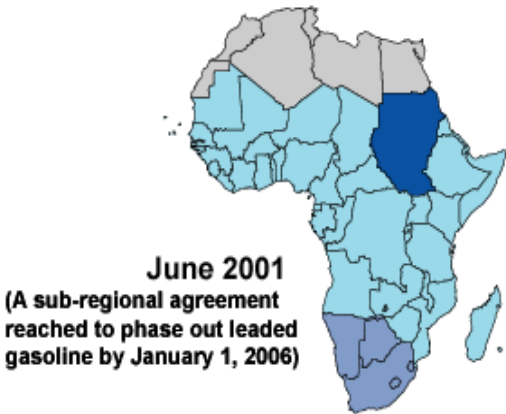


# The Lead Campaign

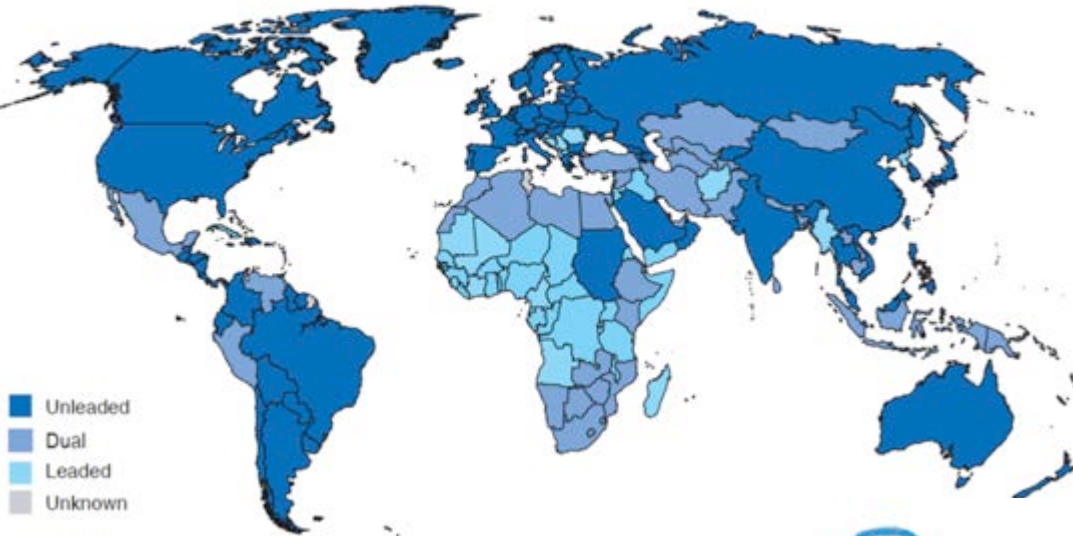




# Progress of leaded petrol phase out in sub-Saharan Africa



# Global Lead Petrol Phase-out Progress from 2002 to 2016



- Unleaded
- Dual
- Leaded
- Unknown

Status as of End 2002



- Unleaded
- Leaded and Unleaded
- Leaded
- Unknown

- Dual Countries:
- Algeria
  - Yemen
  - Iraq

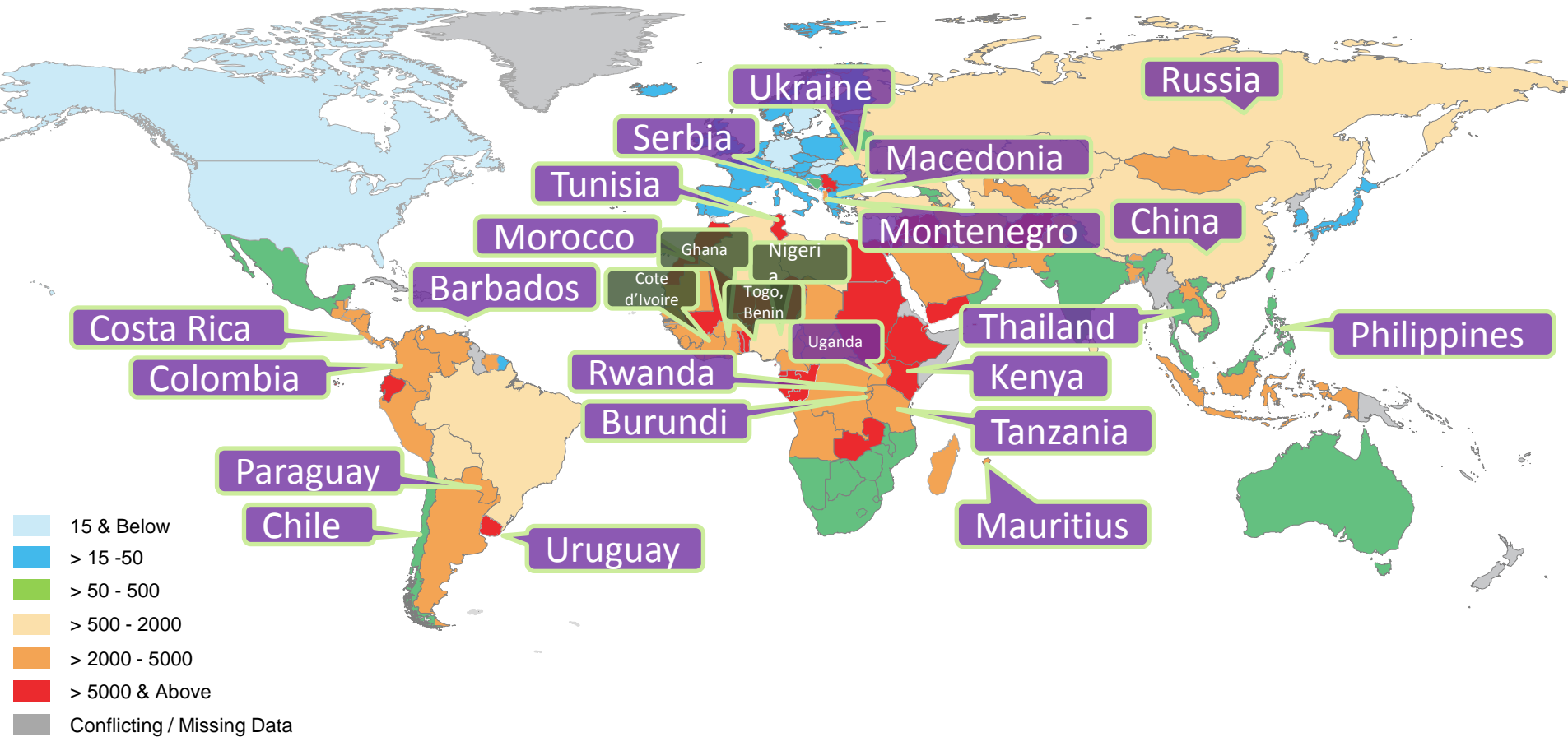
Over 80 countries supported by the PCFV to eliminate leaded petrol



# The Sulphur Campaign

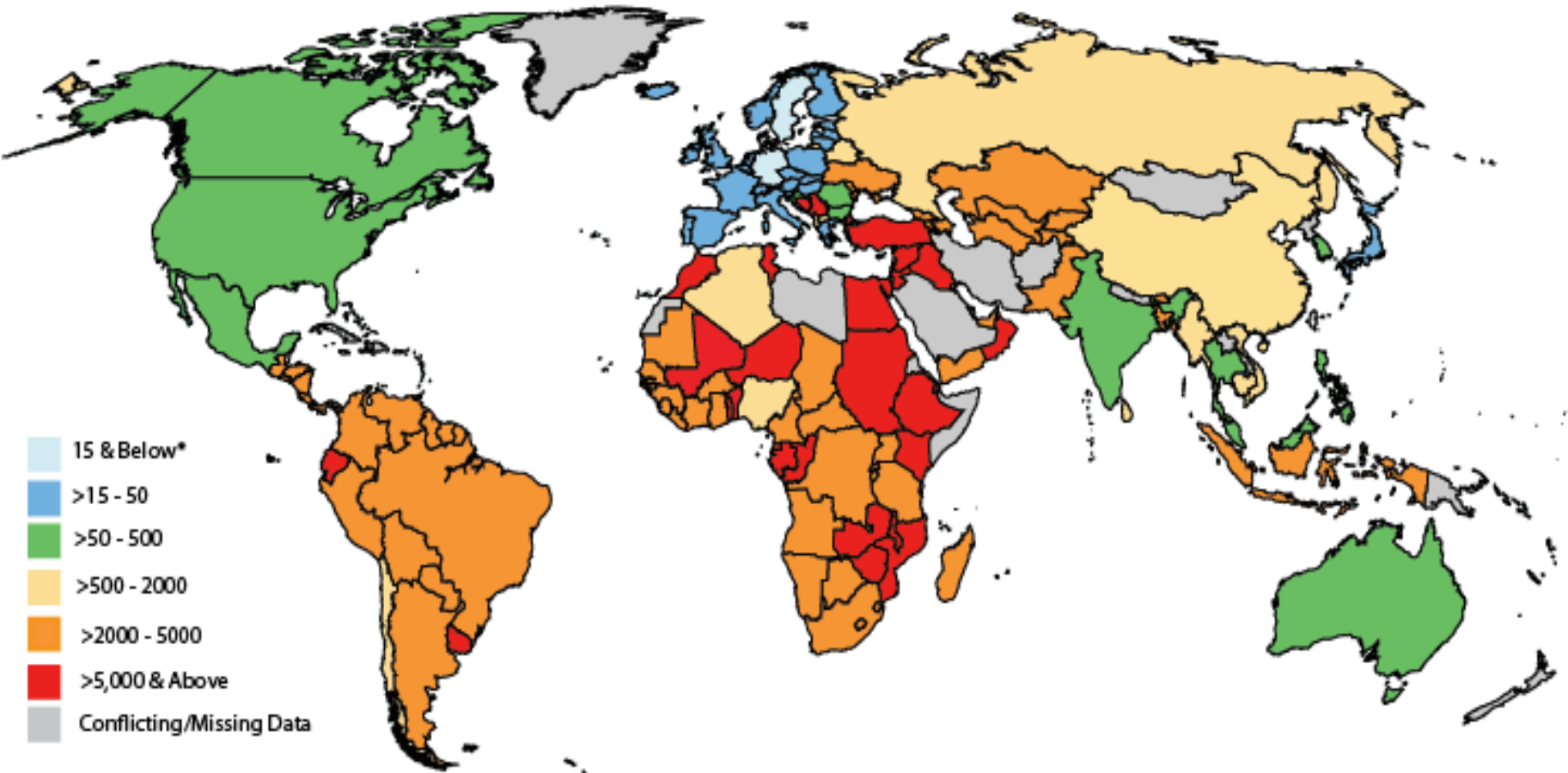


# Progress 2005 -2016



# Global Diesel Fuel Sulfur Levels

## 2006



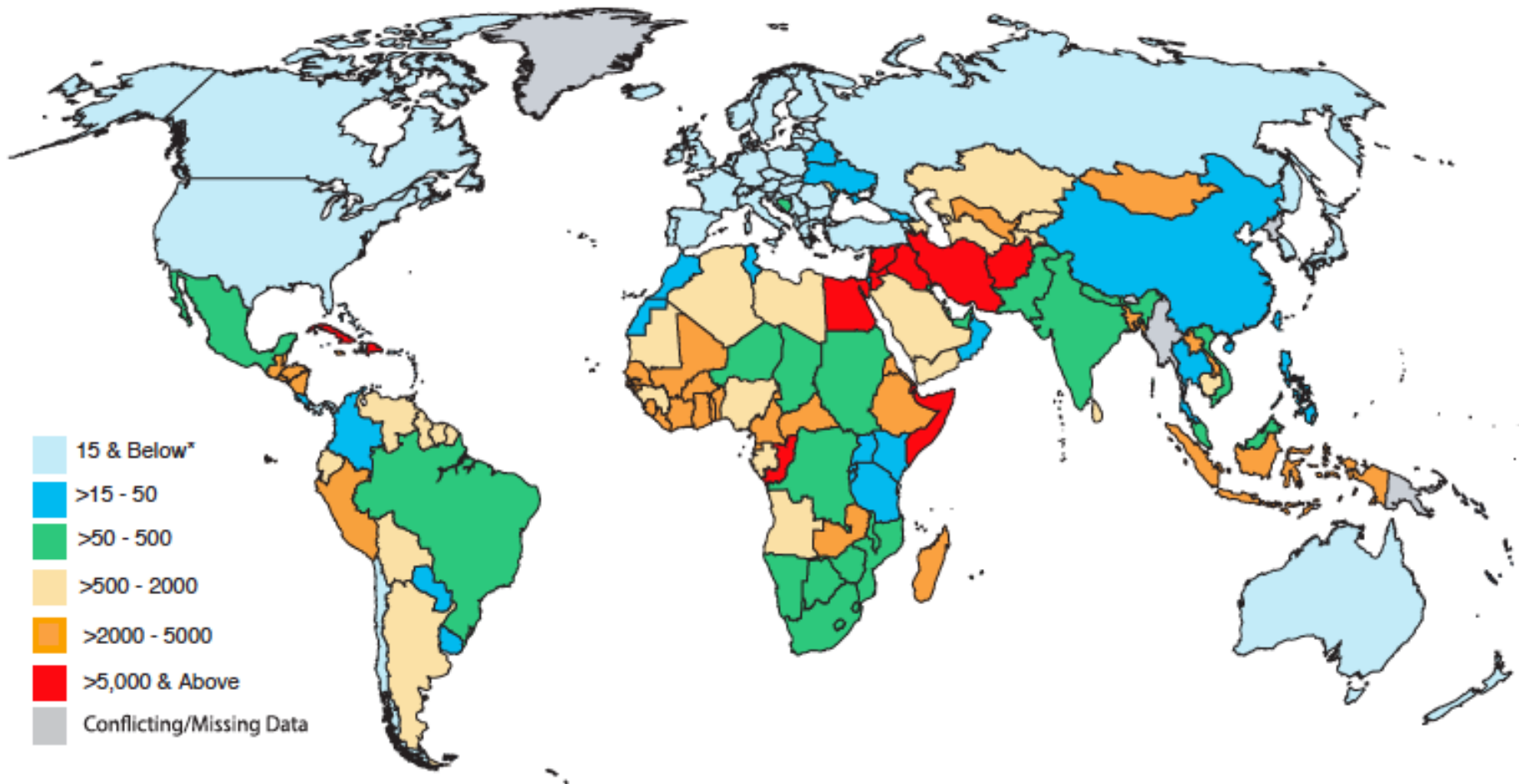
- 15 & Below\*
- >15 - 50
- >50 - 500
- >500 - 2000
- >2000 - 5000
- >5,000 & Above
- Conflicting/Missing Data

\* Information in parts per million (ppm)

# 2016



## Diesel Fuel Sulphur Levels: Global Status June 2016



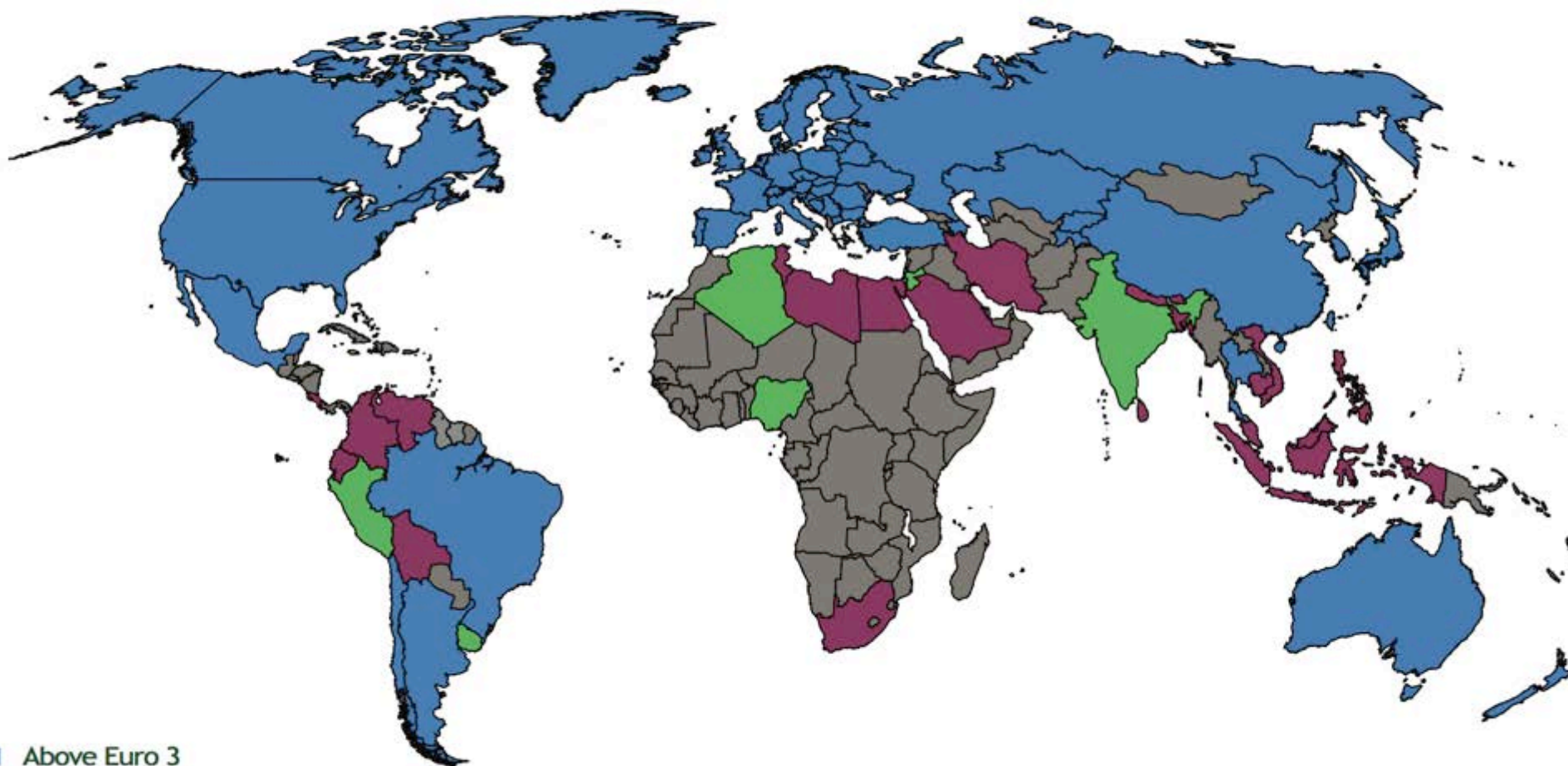
\* Information in parts per million (ppm)

For additional details and comments per country, visit [www.unep.org/transport/pcf/v/](http://www.unep.org/transport/pcf/v/)

# The Vehicles Campaign



# Light-Duty Vehicle Emissions Standards February 2017



- Above Euro 3
- Euro 3
- Below Euro 3
- No Policy/Unknown
- ...

# Climate and Clean Air Coalition



Diesel



Oil & Gas



Waste



Bricks



HFCs



Cookstoves



Agriculture



SNAP



Finance



Assessments



Urban Health

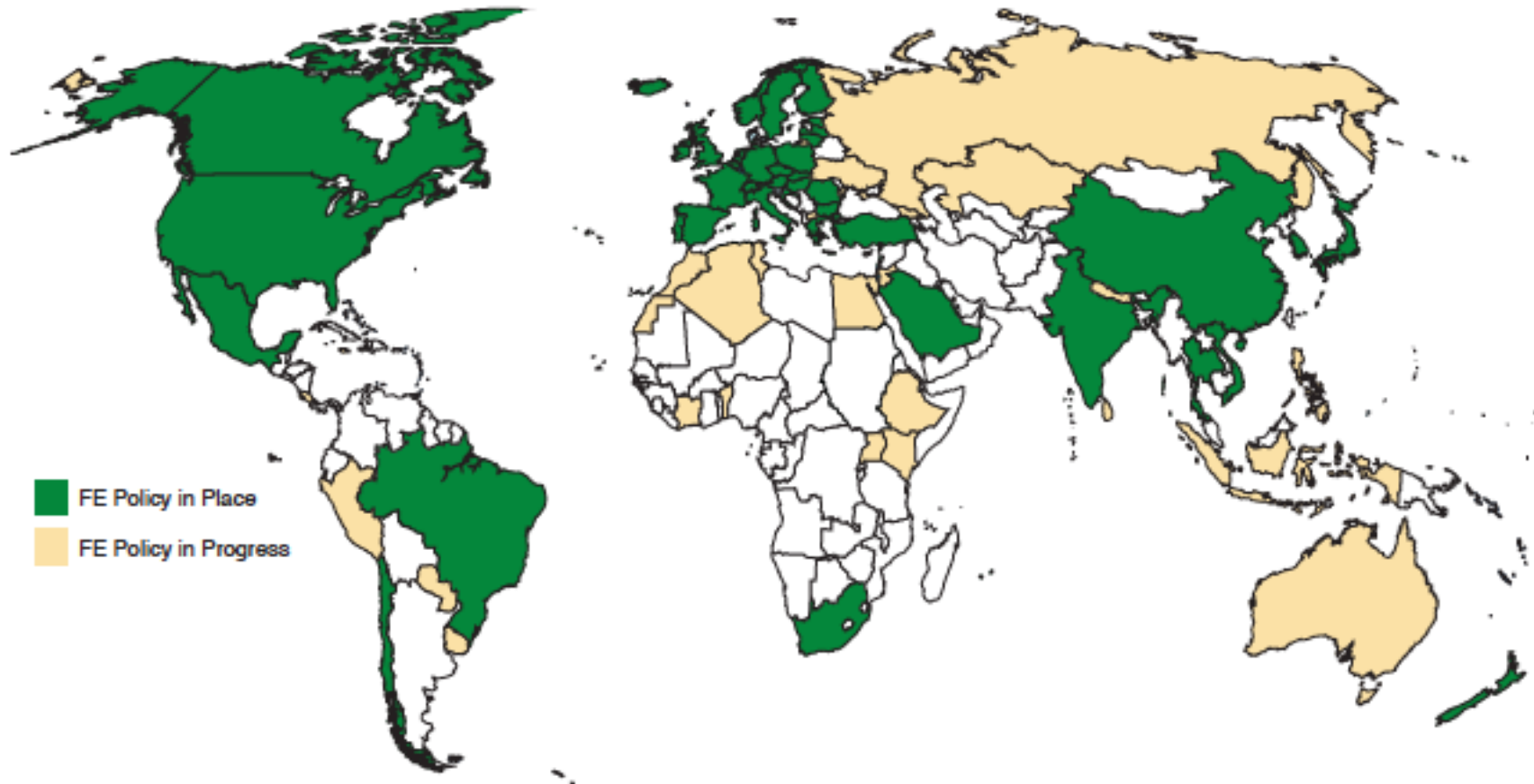
45 Country + 50 non-state partners

**Heavy Duty Diesel Initiative:** Through the adoption of clean vehicle and fuel standards globally reduce 2.7 million metric tons of fine particles, 1.9 million metric tons of black carbon emissions from heavy-duty vehicles = 1.4 million cases of premature mortality by 2030.

# Global Fuel Economy Initiative



## Global Progress on Fuel Economy Policy (2016)





# III. Summary

## The **Best** New Cars Make the **Best** Used Cars.

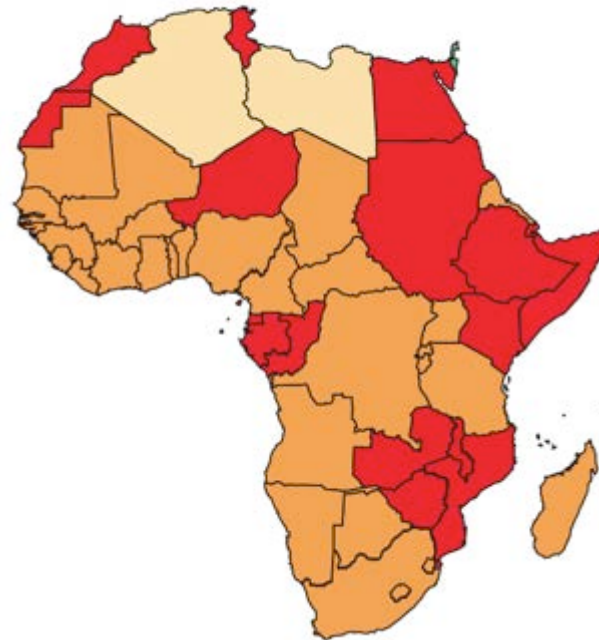
- PCFV **consensus-driven voluntary approach on used cars:**
  1. Build consensus around a **harmonized, informal** global approach to used cars
  2. Setting a global target between exporters & importers
  3. Support regional, sub-regional, national implementation
  4. **Bring decisions on used cars to global fora:**
    - UN Environment Assembly
    - Regional Environment Ministerials
    - CCAC HLA



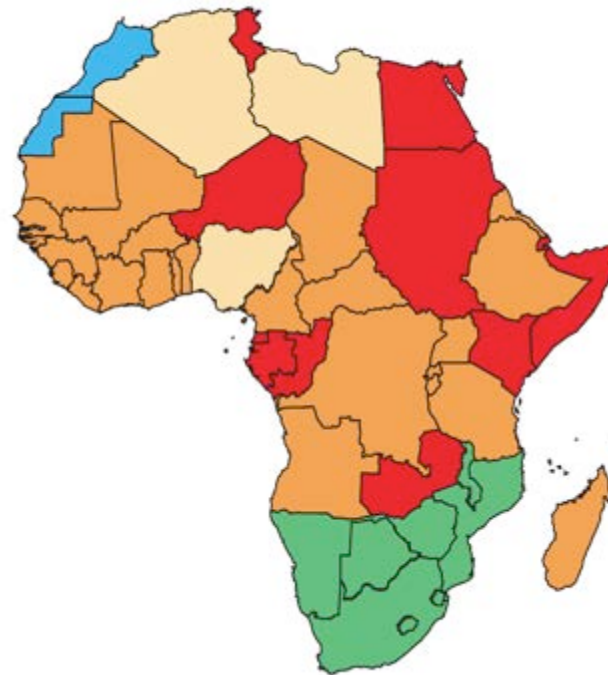


# Low Sulfur Diesel: Africa 2002-2016

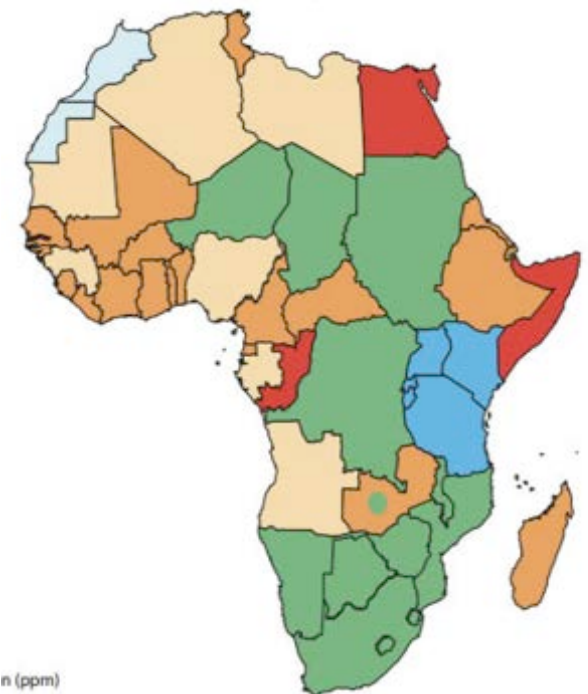
2002



February 2009



2016



n (ppm)

- 2010 independent evaluation: it would have taken ***ten years rather than five*** to achieve the elimination of lead from fuel in Sub-Saharan Africa in the absence of PCFV.
- 2010 study by California State University assessed global benefits of phasing out leaded fuel: **over one million deaths avoided each year and over US \$2 trillion (or 4% of global GDP)** is saved by eliminating lead from fuel.

Tsai, Peter L. and Thomas H. Hatfield, "Global Benefits from the Phase out of Leaded Fuel" *Journal of Environmental Health*, Volume 74, No. 5 December 2011

### III. Effective global response

- **Partnership:** fuels, vehicles, exporters, importers
- **Clear voluntary goals that are ambitious yet achievable:** focus on a few highly ambitious targets and campaigns (e.g. 5 year age limit, global target date set)
- **Neutral Secretariat:** convening (and fundraising)
- **Design for buy-in and trust:** consensus decisions, voluntary commitments
- **Regional, sub-regional and national implementation**