Efforts towards Cleaner Buses in

Africa

MOTREN

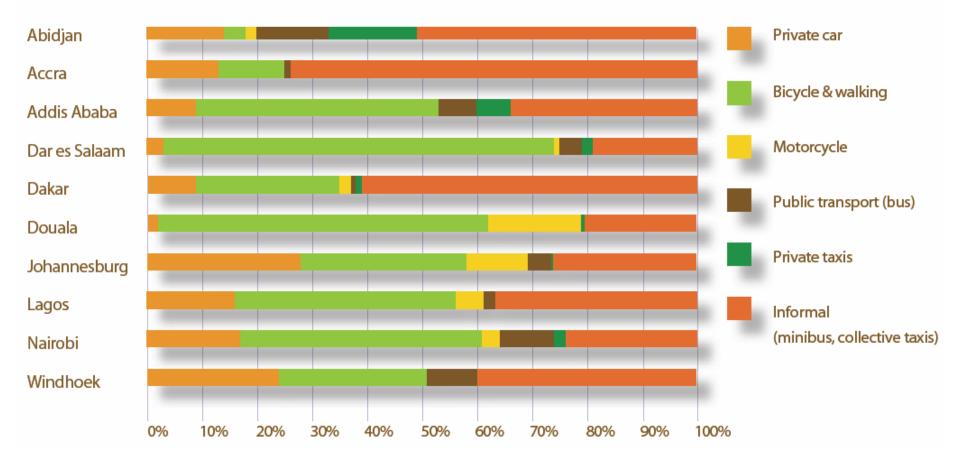
Jane Akumu, UN Environment

SCHOOL-

805

Modal share

Transport modal share of the cities



Source: UATP (2010) Major Trends and Case Studies

Efficient mass transport lacking

TIT

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Introduction of motorcycles

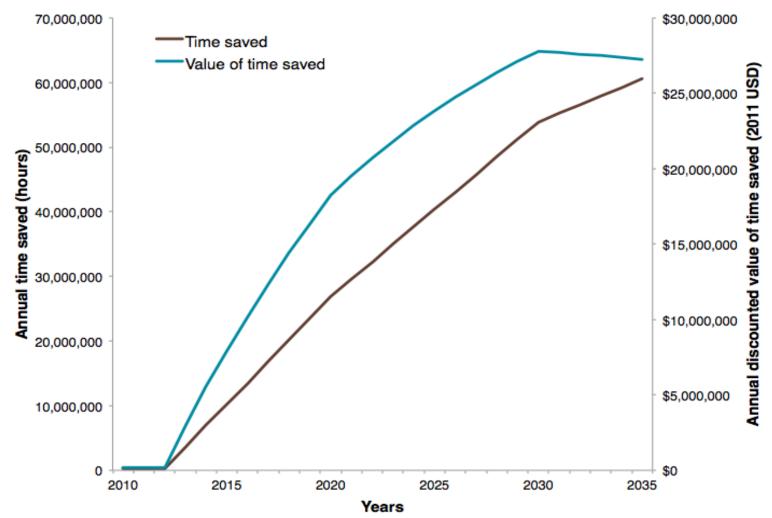
Inadequate infrastructure

- Small particulates are responsible for an estimated <u>3.7</u> million premature deaths annually from outdoor air pollution.
- Heavy-duty trucks and buses currently account 80% + of PM2.5 emissions from on-road vehicles (ICCT 2013)
- Exposure highest 300 500 meters from roadway (HEI 2010)

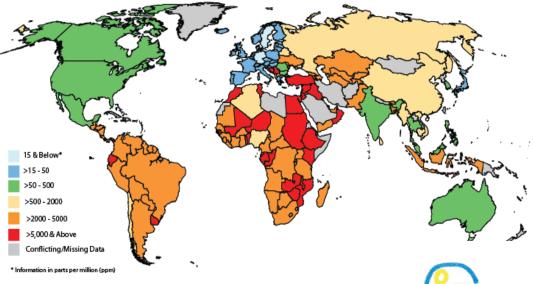


Most African Cities planning BRTs

Nairobi: Annual travel time saved with BRT







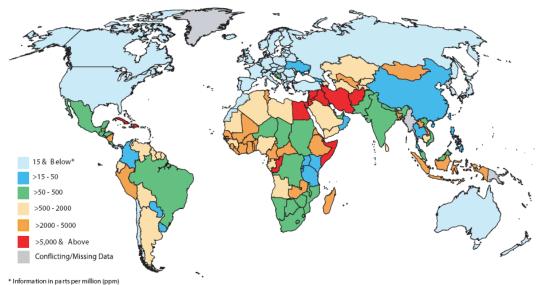
Diesel Sulphur 2005 and 2017



Diesel Fuel Sulphur Levels: Global Status June 2017



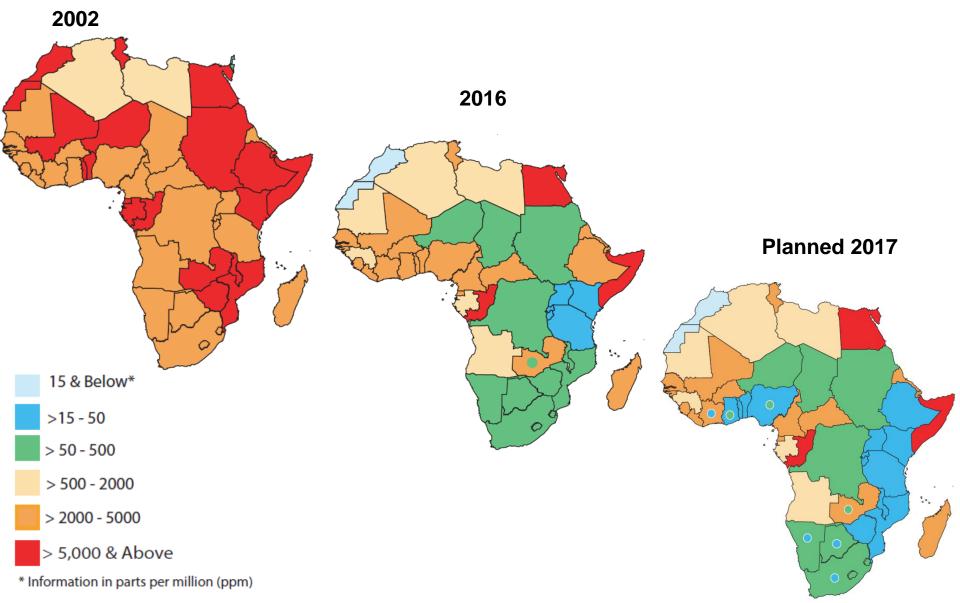
- 13 countries at 50 ppm & below
- More countries have lowered sulphur levels
- More cities at 50 ppm



For additional details and comments per country, visit www.unep.org/transport/pcfv/



Progress in Lowering Sulphur in Diesel in Africa



Technology options: Overview



Diesel



Battery



LPG and CNG



Trolley



Hybrid



Capacitor



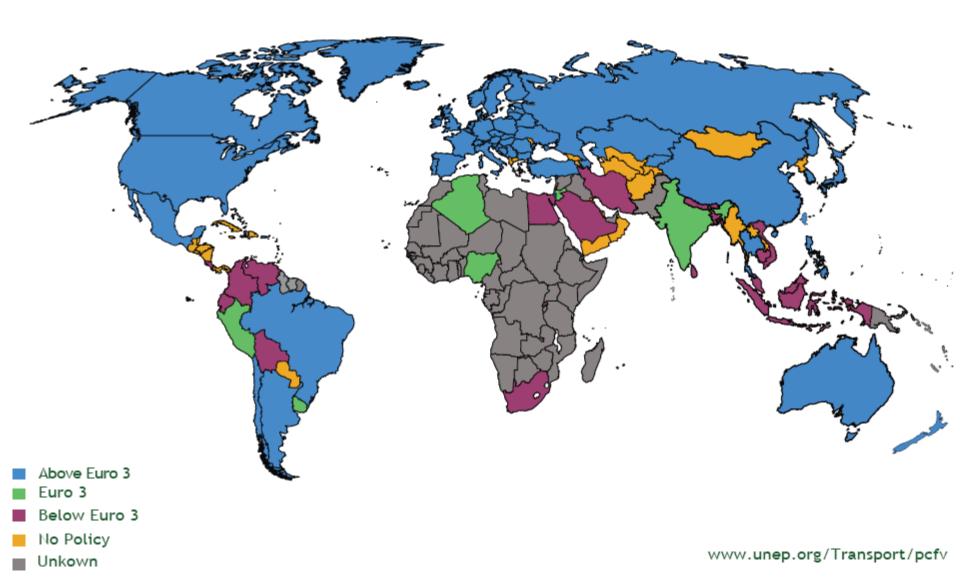


Fuel cell



Vehicle Emissions Standards June 2017





Good examples in the region

South Africa

Lagos

rop.

IA



111

Ethiopia

106



- Cleaner fuels already available (50 ppm diesel fuels & CNG)
- Commitment by cities to procure cleaner, soot-free buses



UN Environment Transport Programmes





Share the Road (StR)

Global Fuel Economy Initiative (GFEI)



Electric Mobility



Partnership for Clean Fuels and Vehicles (PCFV)

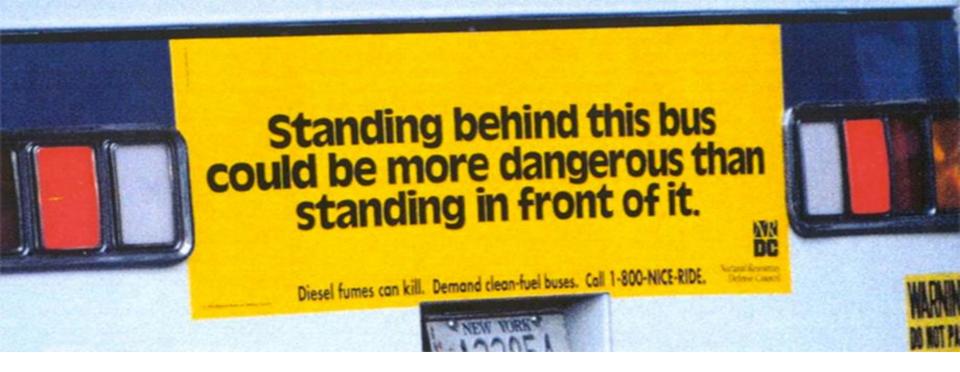


Climate and Clean Air Coalition (CCAC)









Jane Akumu

www.unep.org/transport http://www.ccacoalition.org/