

Challenges



Air Pollution





Sport

Culture

Lifestyle

More ~



ate change Wildlife Energy Pollution

'There is no escape': Nairobi's air pollution sparks Africa health warning

Pollution in the Kenyan capital is 'beyond imagination'. With Africa's predicted rise in population - and a constant stream of dirty secondhand cars from Europe and Japan - this urban health crisis could kill 1.5 million within a generation







Congestion







We lose N42bn monthly to traffic congestion in Lagos – Ambode

TRANSPORT

DRIVING

October 8, 2014

Cairo's traffic problems are costing Egypt around 4 per cent of its GDP

Traffic jams makes Nairobi world's 'second-worst' city

MONDAY APRIL 17 2017

TRAFFIC CONGESTION: BRINGING SA CITIES TO A HALT

General News







Congestion in Lusaka unbearable says Mwanakatwe after using public transport



Road Safety





Country	Road fatalities per 100,000 motor vehicles
Africa	574
Eastern Mediterranean	139
Western Pacific	69
South-east Asia	101
Americas	33
Europe	19

Source: wikipedia

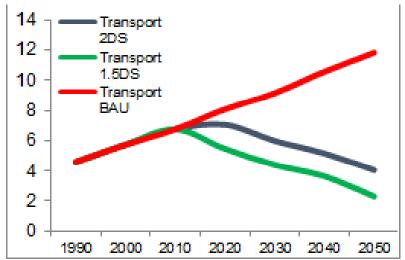


Climate Change



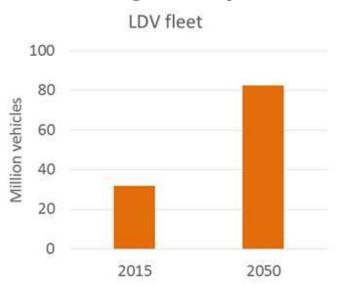
environment

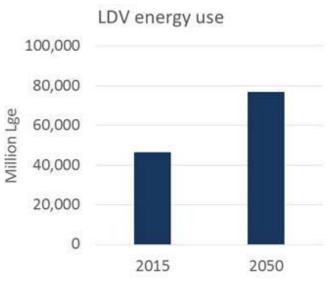




Source: PPMC 2017; www.ppmc-transport.org

Africa's light duty vehicle fleet is set to triple by 2050







Source: UN Environment E-Mob calculator(unpublished)

An Alternative Roadmap for Africa



Key Elements

1- Clean up Fleets

- low sulfur fuels 50/10ppm
- vehicles emissions standards Euro 4/6
- used vehicles clean rather than dirty

2- Zero & Low Emissions Mobility

- electric motorcycles switch
- cars & busses- electric/HEV/CNG incentives

3- Walking and Cycling

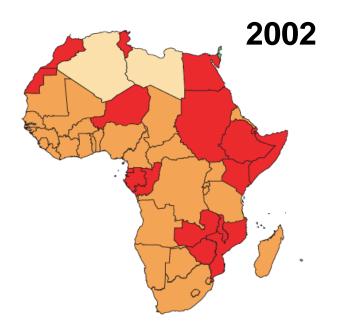
Infrastructure – redesigning cities

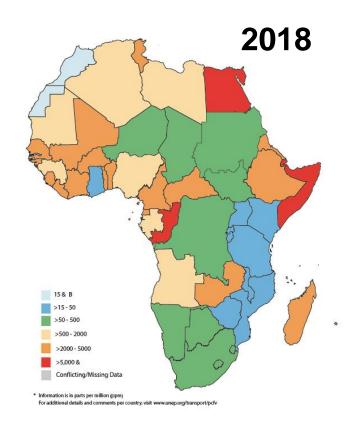
4- Public Transport

mass transit medium & large cities (BRT/LRT)



1- Cleaning up Fleets



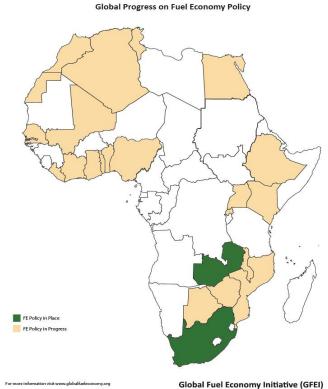


UN Environment projects

- # Country
- 1 Algeria
- 2 Benin
- 3 Botswana
- 4 Burundi
- 5 Côte d'Ivoire
- 6 Djibouti
- 7 Egypt
- 8 Ethiopia
- 9 Ghana
- 10 Kenya
- 11 Liberia
- 12 Malawi
- 13 Mali
- 14 Mauritius
- 15 Morocco
- 16 Mozambique
- 17 Nigeria
- 18 Rwanda
- 19 South Africa
- 20 Tanzania
- 21 The Gambia
- 22 Togo
- 23 Tunisia
- 24 Uganda
- 25 Zambia
- 26 Zimbabwe



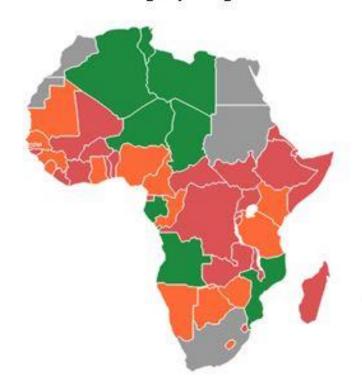






used vehicles imports

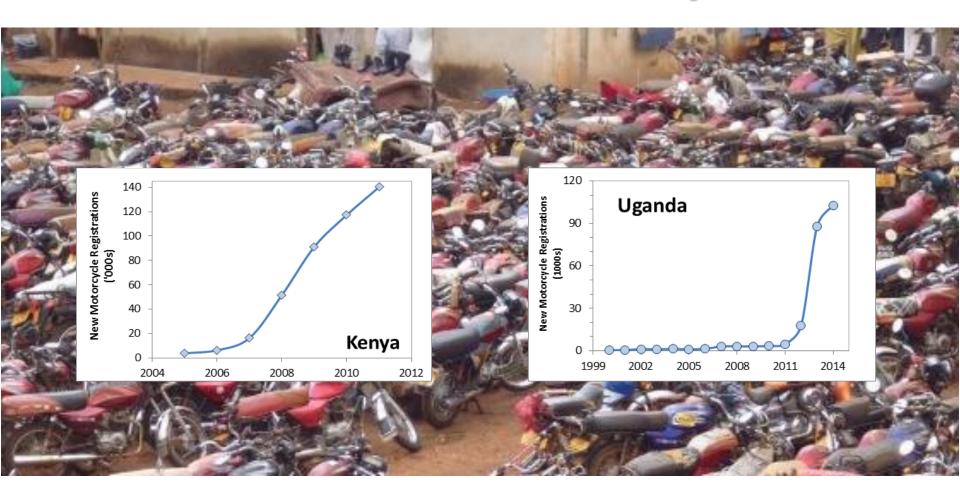
Status of African Countries based on a recognized 'strong' 5 year age limit







2- Electric Mobility





Motorcycle Emissions

Two-wheelers Emissions Comparison – Total Emissions [g CO₂ –equivalents / km]







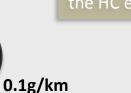




Passenger Car (petrol, Golf segment)

Particle Emissions [g PM/km]





One two-stroke scooter emits double the NOx emissions of a modern passenger car, 300 times the HC emissions and 80 times the CO emissions.

0.017g/km (China energy mix)



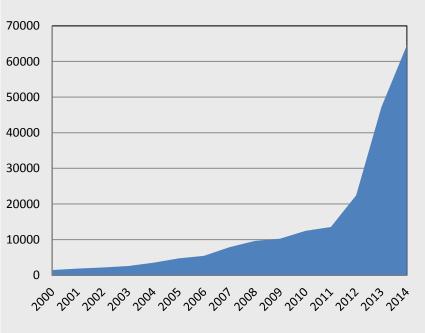
0.002g/km

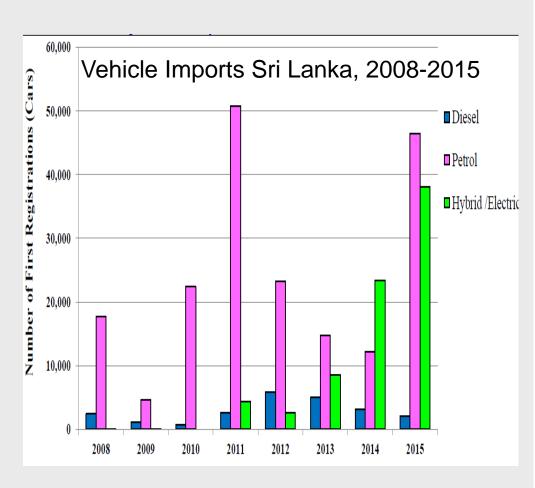


Graphics based on data from: Swiss EMPA, Materials Science & Technology "Umweltnutzen von E-Scootern"; TÜV NORD CERT, Bericht-Nr.: 8000410537-1 "Umweltprädikat Golf Modelljahr 2012"; ADB 2009 "Electric Bikes in the People's Republic of China Impact on the Environment and Prospects for Growth"

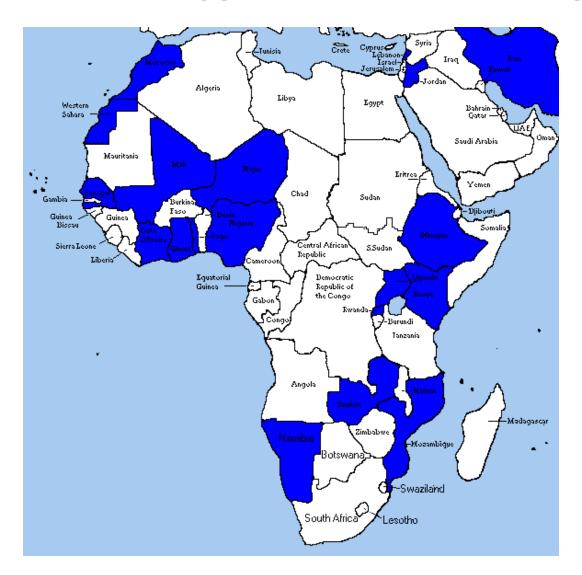
Import of Cleaner Vehicles

Imported Vehicles in Uganda





UN Environment Support to Electric Mobility Africa





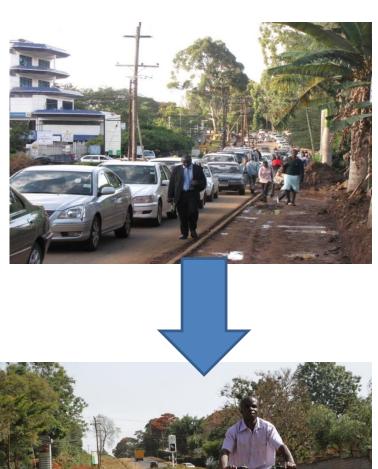
3- Walking and Cycling







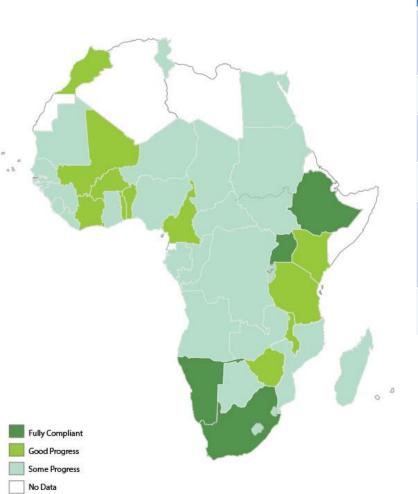
before



after



UN Environment Support to Non Motorized Transport in Africa



COUNTRY	STATUS	ACTION
KENYA	Good Progress	Nairobi NMT Policy (discussions underway to upscale to national level)
UGANDA	Fully Compliant	National NMT Policy
BURUNDI	Some Progress	Commitment to develop National NMT Policy in 2017
RWANDA	Some Progress	Capacity Building undertaken
NIGERIA	Some Progress	Commitment to develop NMT policy for Lagos in 2016 and include in Federal Transport Policy
UGANDA	Some Progress	Commitment to develop NMT National policy in 2017









UN Environment Programs



Share the Road (StR)



Global Fuel Economy Initiative (GFEI)





Electric Mobility (EMOB)





Partnership for Clean Fuels and Vehicles (PCFV)

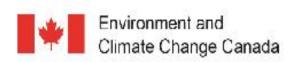


Heavy Duty Vehicles Initiative Climate and Clean Air Coalition (CCAC)



Partners















Supported by:









based on a decision of the Porliament of the Pederal Republic of Germany





Thank you

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United Nations Environment Programme

