

# Safer and Cleaner Vehicles for Africa



**SAFER AND CLEANER  
USED VEHICLES**

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**UN**   
**environment  
programme**



# Air Pollution: A Rising Concern in Africa

Environmen  
sustainabilit

## Air pollution more deadly in Africa than malnutrition or dirty water, study warns

Annual human and economic cost of tainted air runs to 712,000 lost lives and £36.4bn, finds Organisation for Economic Co-operation and Development



▲ Heavy traffic causes gridlock in the Kenyan capital Nairobi. Across Africa, annual deaths from ambient particulate matter pollution increased by 36% between 1990 and 2013. Photograph: Tony Karumba/AFP/Getty Images

Africa's air pollution is causing more premature deaths than unsafe water or childhood

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About this content

**John Vidal**

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1737

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## '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



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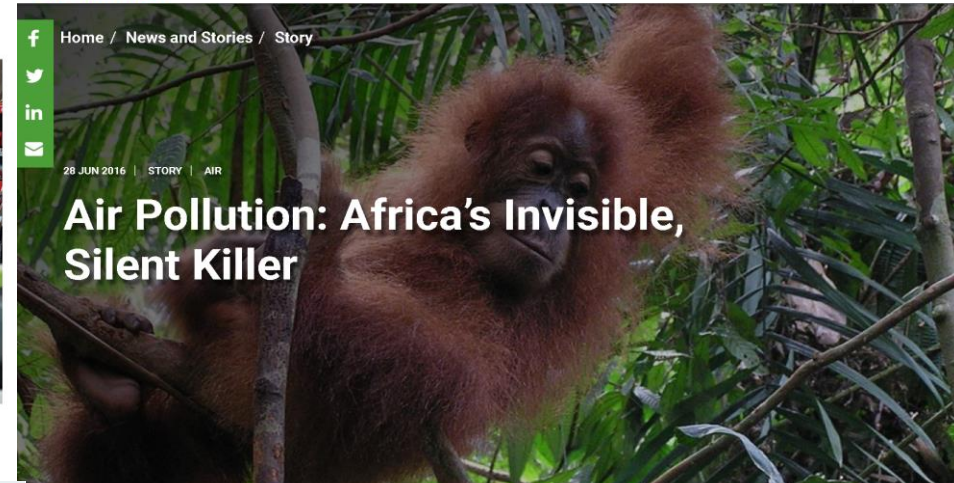
About this content  
**John Vidal in Nairobi**  
Sun 10 Jul 2016 18:18 BST



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## Air Pollution: Africa's Invisible, Silent Killer

OECD  
BETTER POLICIES FOR BETTER LIVES

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OECD Home Development Centre Africa and Middle East The increased cost of air pollution in Africa calls for urgent mitigation action, says new OECD Development Centre study

Africa and Middle East

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## The increased cost of air pollution in Africa calls for urgent mitigation action, says new OECD Development Centre study

17/10/2016 – The human and economic costs of air pollution in Africa are growing fast, according to a new OECD Development Centre study on the [Cost of Air Pollution in Africa](#). Already, they are surpassing the costs associated with unsafe sanitation or underweight children. Without bold policy changes in Africa's urbanisation policies, these costs might explode.

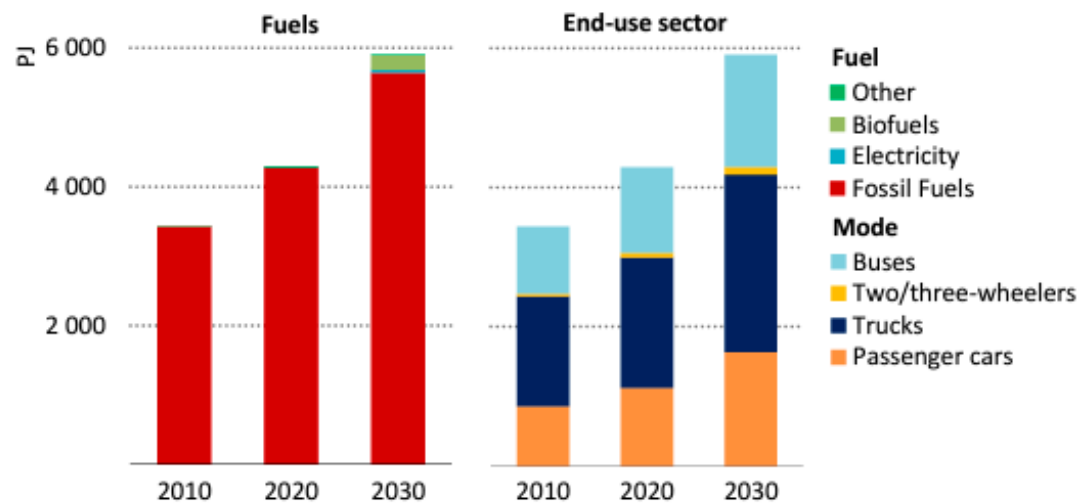
Building on the OECD's methodology to assess the *Economic Consequences of Outdoor Air Pollution for OECD countries, China and India*, the paper provides new, critical evidence on the economic cost of the impact of air pollution on human lives for African countries.

UN environment

# Vehicle Fleet, oil demand growth

- 90% of imported vehicles used
- Tripling of fleet and doubling of oil demand

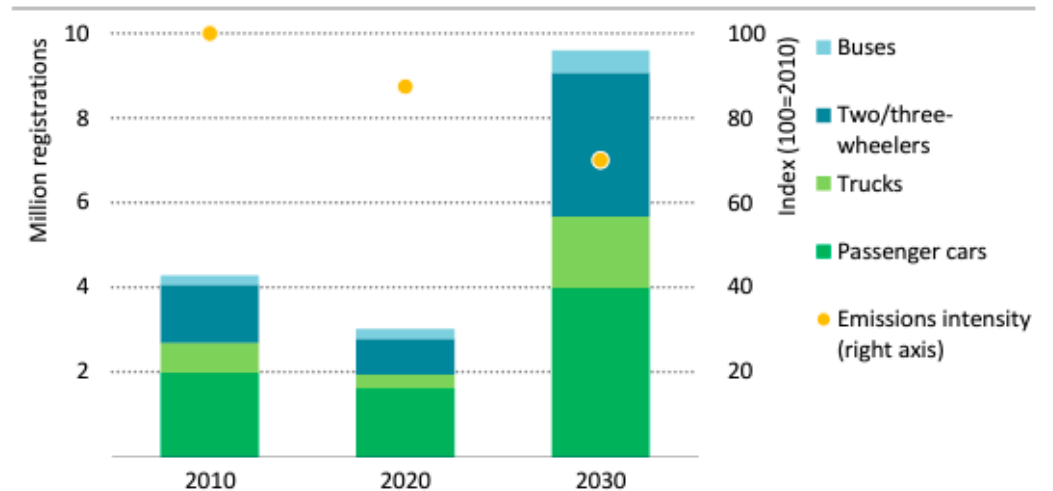
**Figure 2.11** ▶ Road transport energy demand by fuel and mode in the SAS



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*Rapid expansion of the fleet – especially cars and trucks – drives up transport energy demand, with oil remaining the dominant fuel in 2030*

**Figure 2.14** ▶ New road vehicle registrations and CO<sub>2</sub> emissions intensity by type in the SAS

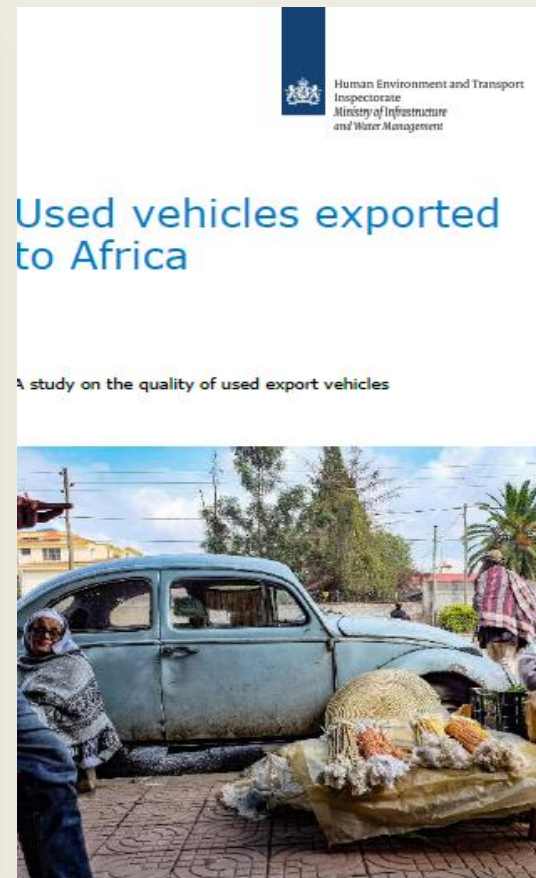
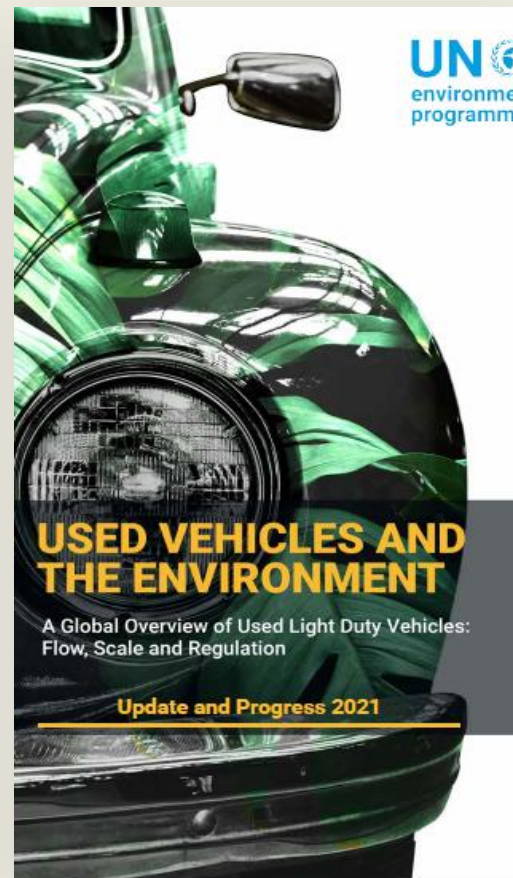
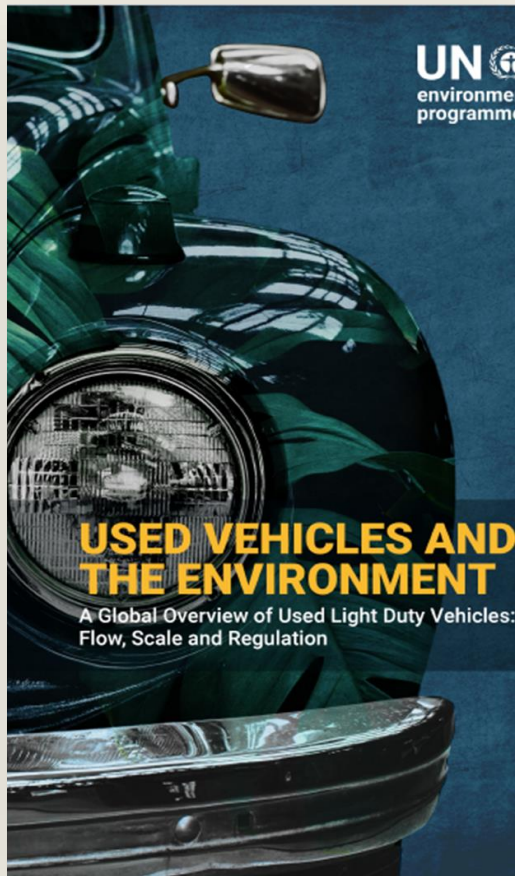


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*Sales more than triple between 2020 and 2030, with vehicle emissions intensity improving*

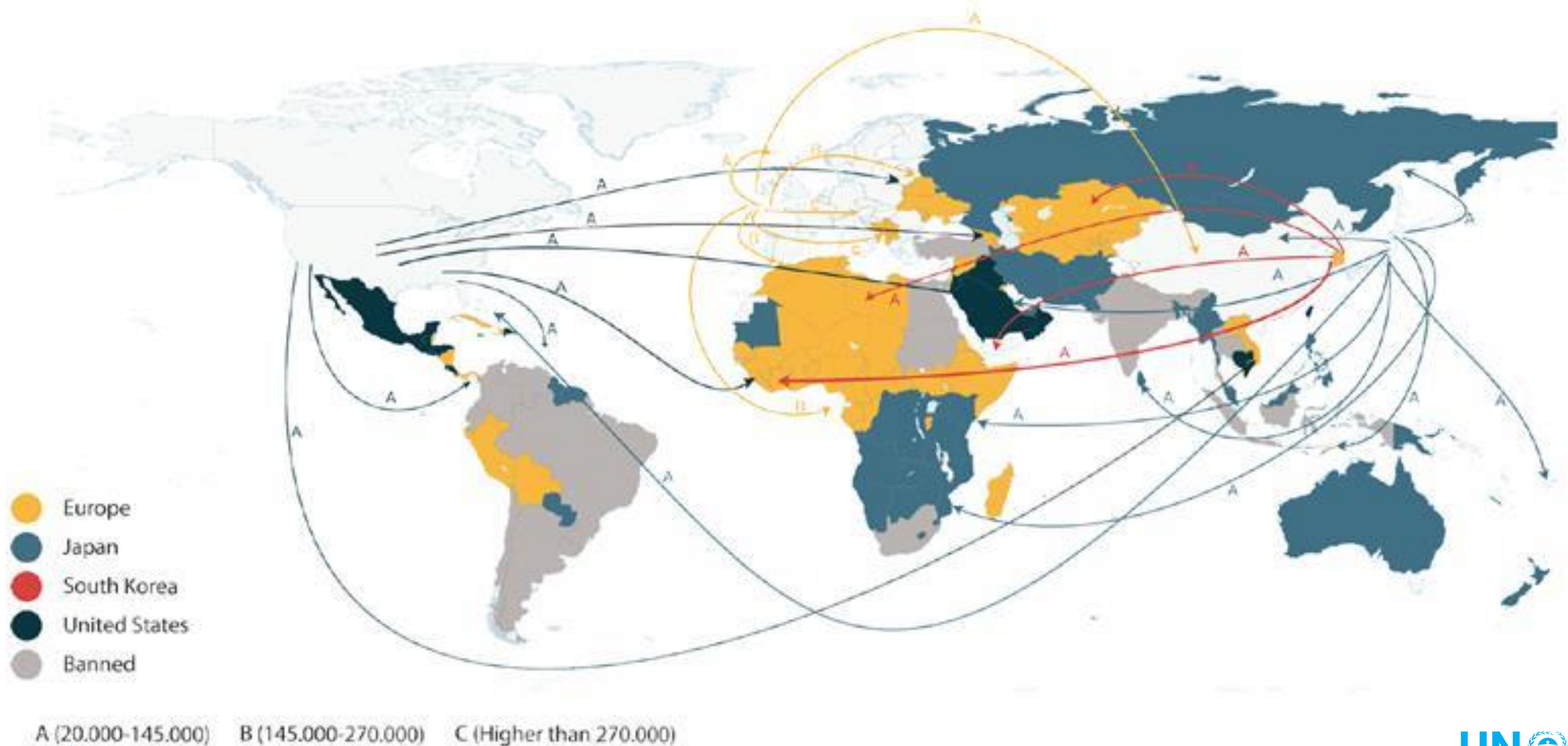


# Background

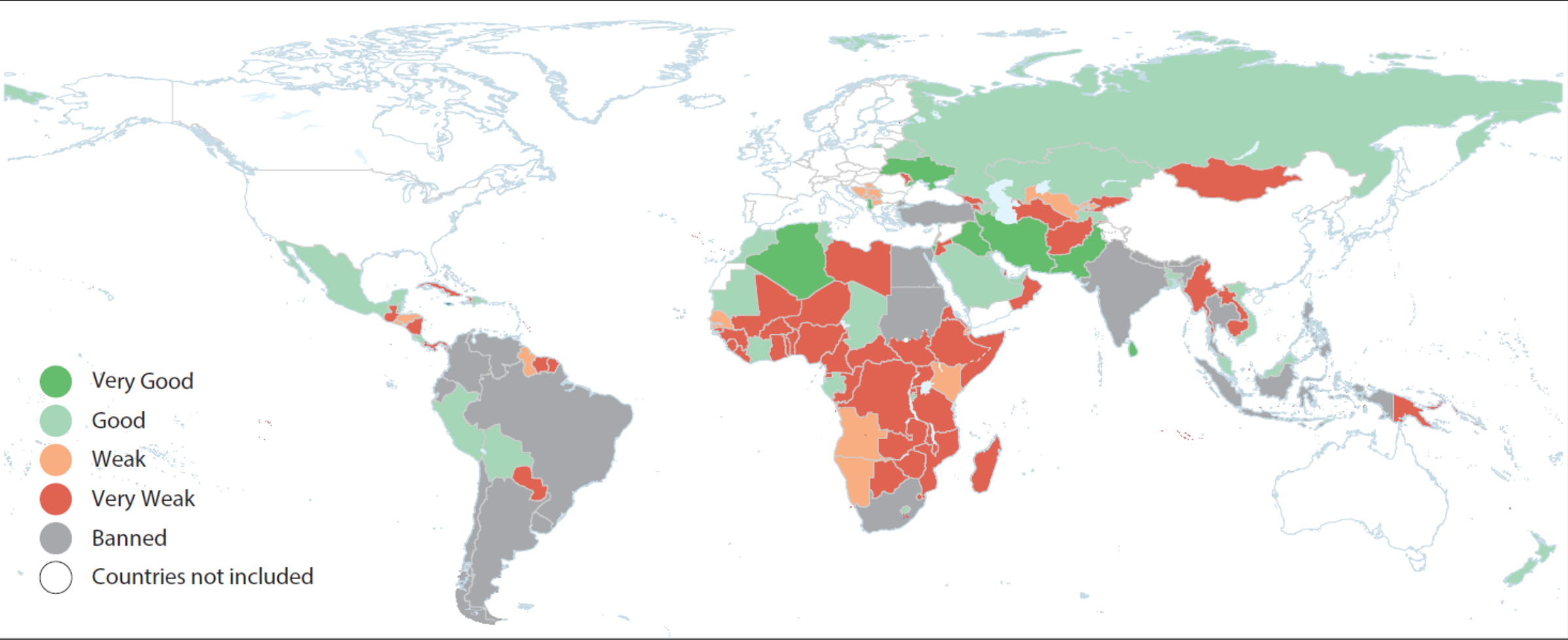


- <https://www.unep.org/resources/report/global-trade-used-vehicles-report>
- <https://www.unep.org/resources/report/used-vehicles-and-environment-progress-and-updates-2021>
- <https://www.ilent.nl/documenten/rapporten/2020/10/26/rapport--used-vehicles-exported-to-africa>

# The Global Trade in Used Vehicles



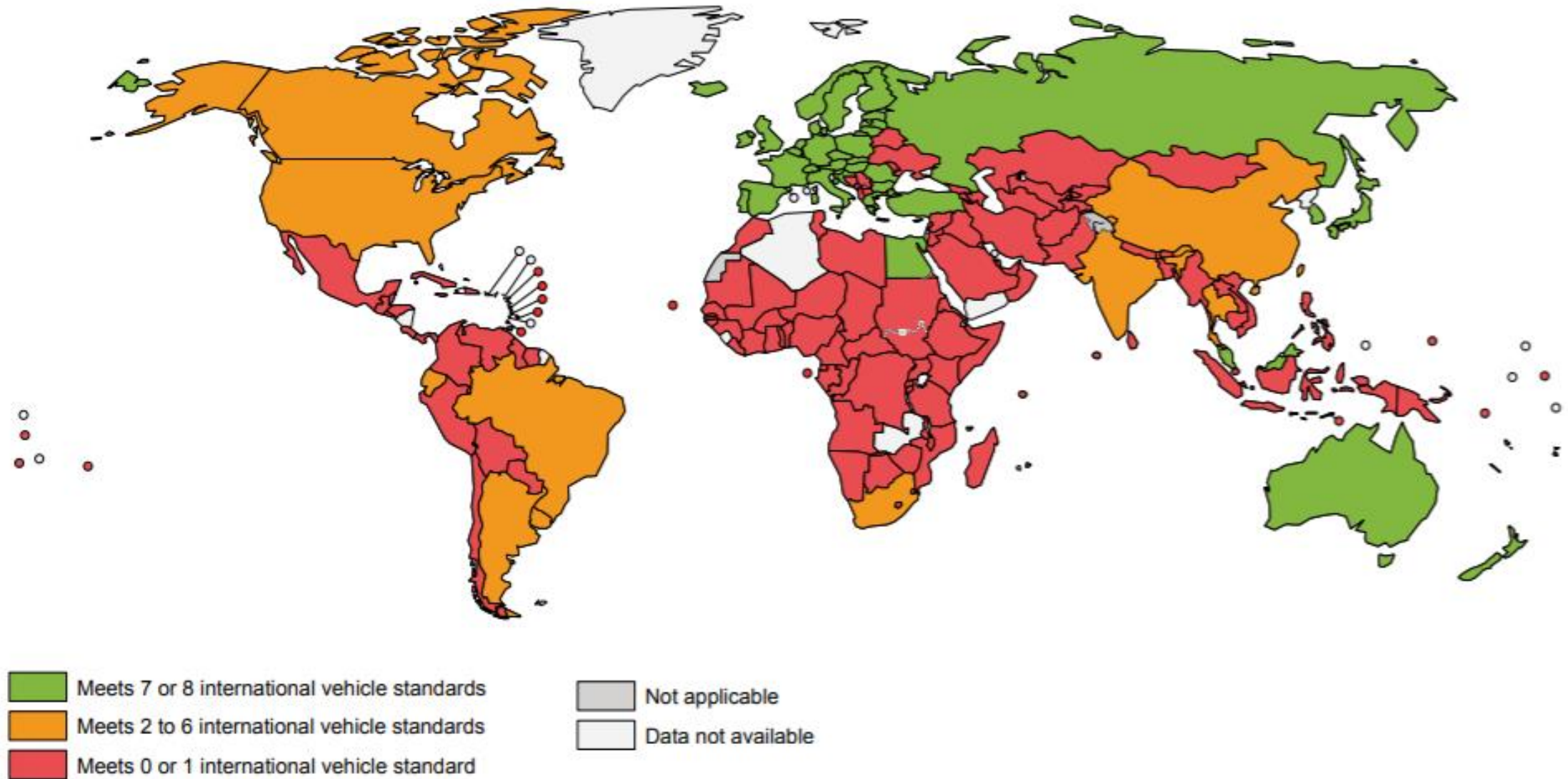
# Regulatory Regimes for Used Vehicles – UNEP’s 2020 assessment





# Countries applying UN vehicle safety standards,

2018





## SAFER AND CLEANER USED VEHICLES

### Safer and Cleaner Used Vehicles for Africa Project

To put in place regulations, standards and processes to ensure that Africa will only receive quality used vehicles, which will have major road safety benefits, for both car drivers and other road users, and co-benefits on the environment and economy.

- Funding: UN Road Safety Trust Fund
- Implementing agencies:
  - UN Environment Programme (UNEP)
  - UN Economic Commission for Europe (UNECE)
  - Federation Internationale d'Automobile (FIA)
  - International Motor Vehicles Inspection Committee (CITA)
- Duration: 2020 - 2022





# Project Activities

***Action Plan with Used Vehicles Requirements for Africa:*** exporters and importing African countries agree on minimum standards/ requirements for used vehicles

***Implementation of the Action Plan:*** develop and adopt national standards and policies, and labeling

***Inspection and enforcement programme*** to check compliance of used vehicles with the agreed minimum requirements

***Training, information and communication***



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USED VEHICLES**



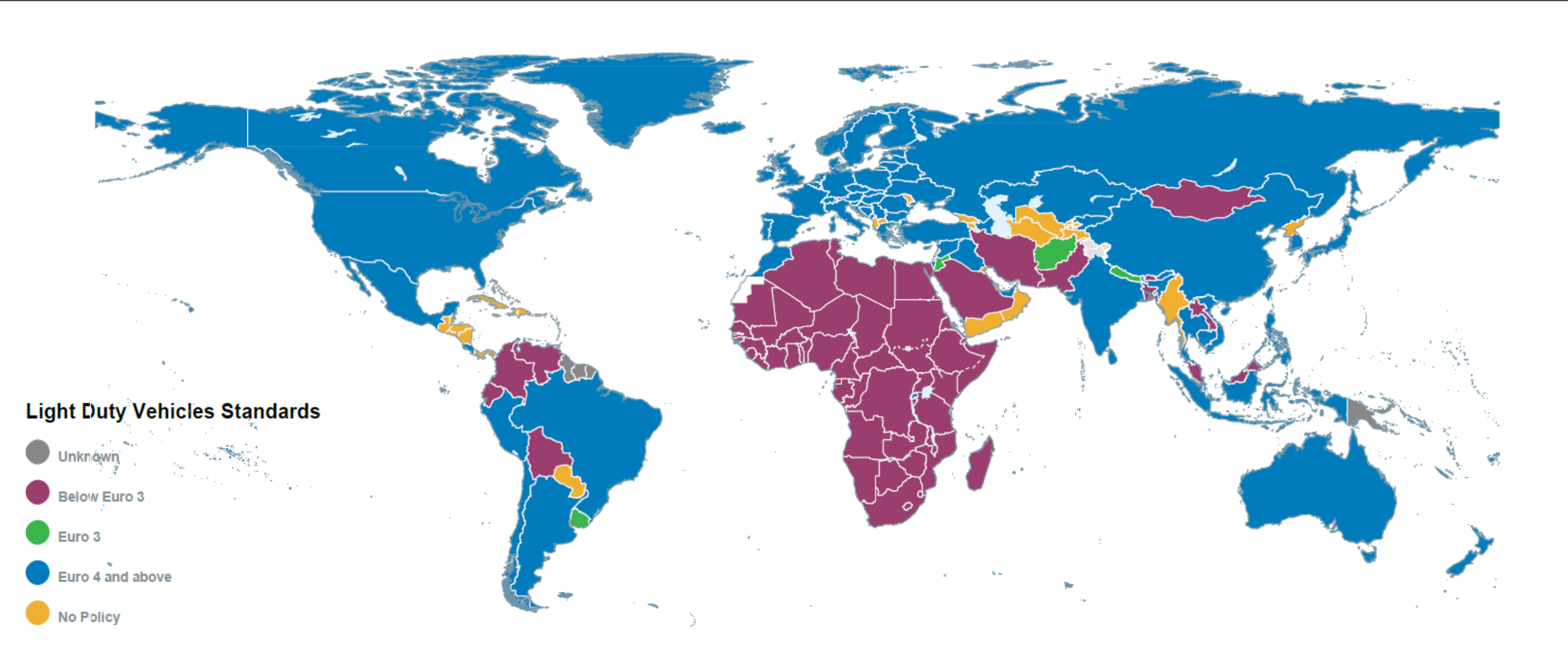
# Progress to-date



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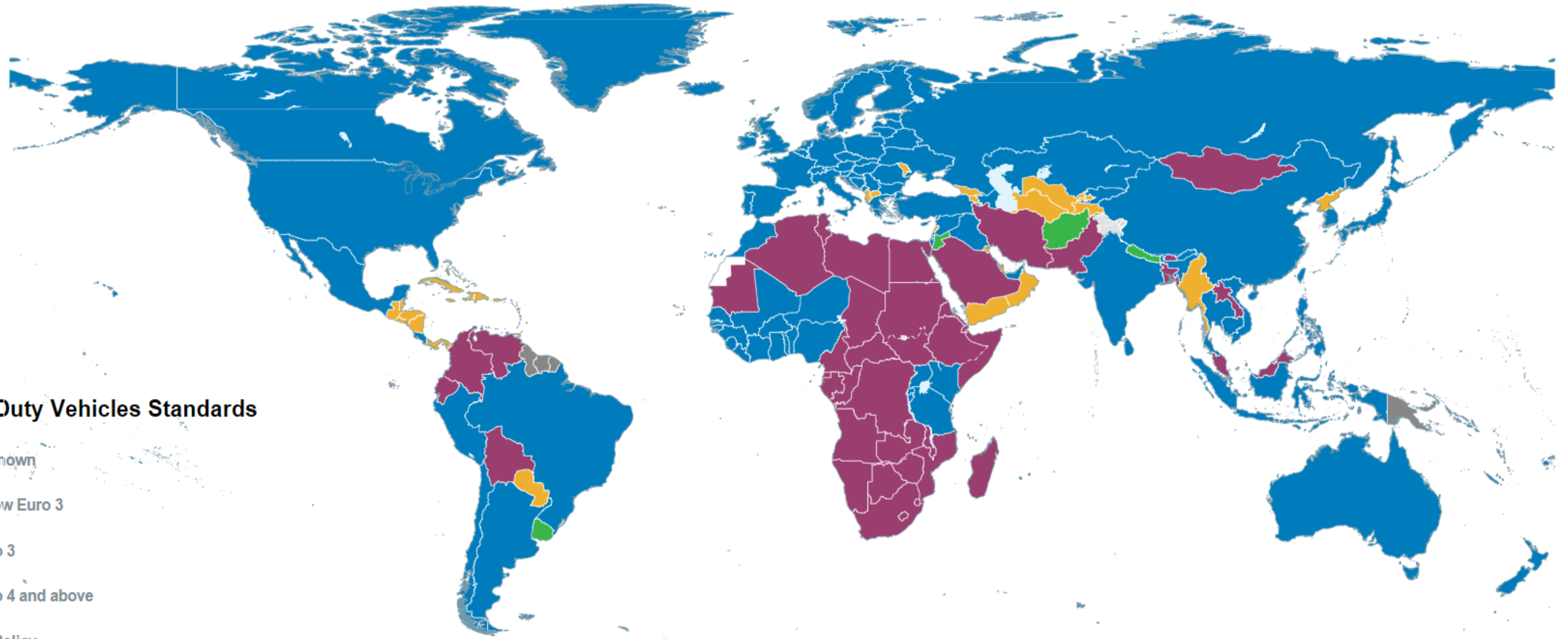
- Recent adoption and gazettelement of Vehicle Emissions Limits in the EAC
- ECOWAS clean fuels and vehicles directives adopted in September 2020
- workshops held focusing on
  - Development of regionally harmonized standards (UNEP)
  - the control of used vehicles (CITA)
  - Exporters workshops for Safer and Cleaner Used Vehicles (UNECE)

# Global Light Duty Vehicle Emissions Standards ( before 2021)





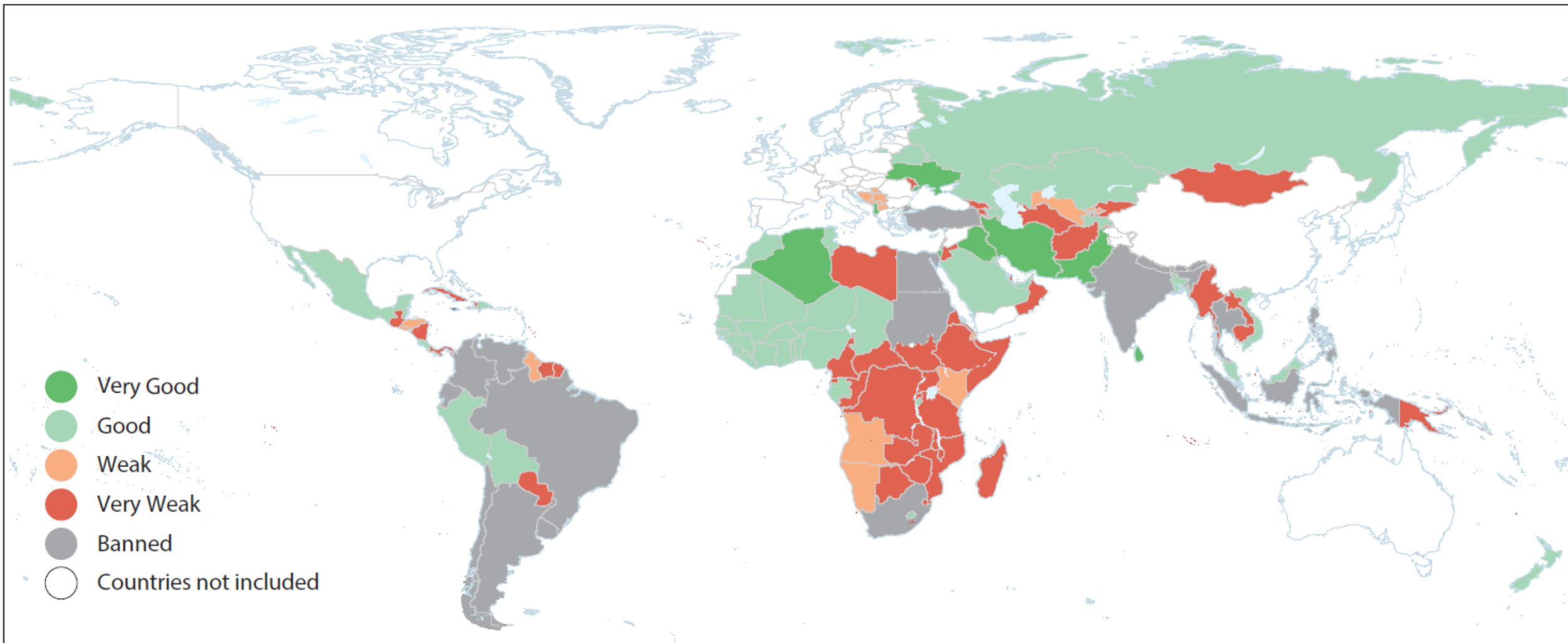
# Global Light Duty Vehicle Emissions Standards (June 2022)



## Light Duty Vehicles Standards

- Unknown
- Below Euro 3
- Euro 3
- Euro 4 and above
- No Policy

# Regulatory Regimes for Used Vehicles – UNEP assessment





# Opportunities

- In use vehicle Inspection and maintenance enforcement
- Leveraging on already available fuels (10ppm ) to progressively tighten standards
- Combining vehicle emissions standards with age limits
- Soot free public transport- Cities looking to operationalize BRT systems in Africa
- Consider city wide measures
- Low emission zones
- Move to zero emission vehicles
- Integrated approach to low carbon mobility – walking, cycling, public transport



# UNEP's Sustainable Mobility Programs



**Share the Road (StR):** Promoting walking and cycling infrastructure



**Global Fuel Economy Initiative (GFEI):** Supporting fuel efficient vehicle policies



**Electric Mobility:** Leapfrogging to electric motorcycles, cars and buses



**Partnership for Clean Fuels and Vehicles (PCFV):** Reducing vehicle emissions through cleaner fuels and vehicles



**Climate and Clean Air Coalition (CCAC):** Reducing short-lived climate pollutants in transport



Thank you

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