



USED VEHICLES AND THE ENVIRONMENT

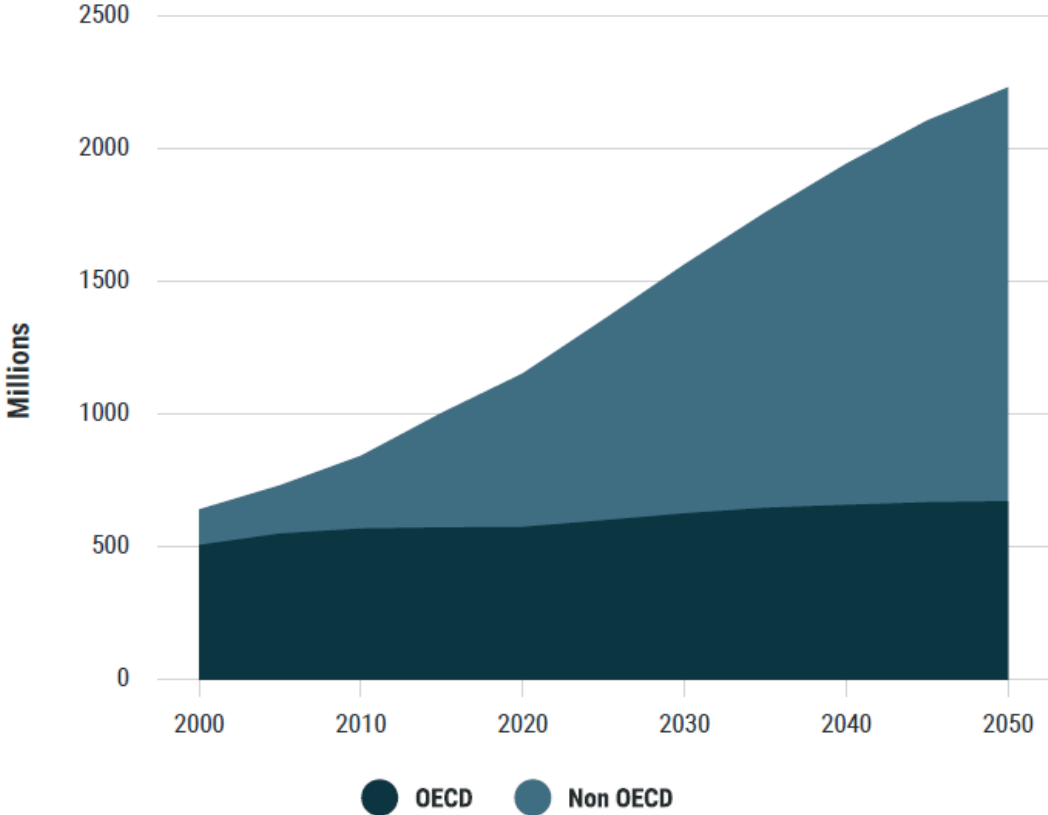
A Global Overview of Used Light Duty Vehicles:
Flow, Scale and Regulation

Rob de Jong

Head

Sustainable Mobility Unit

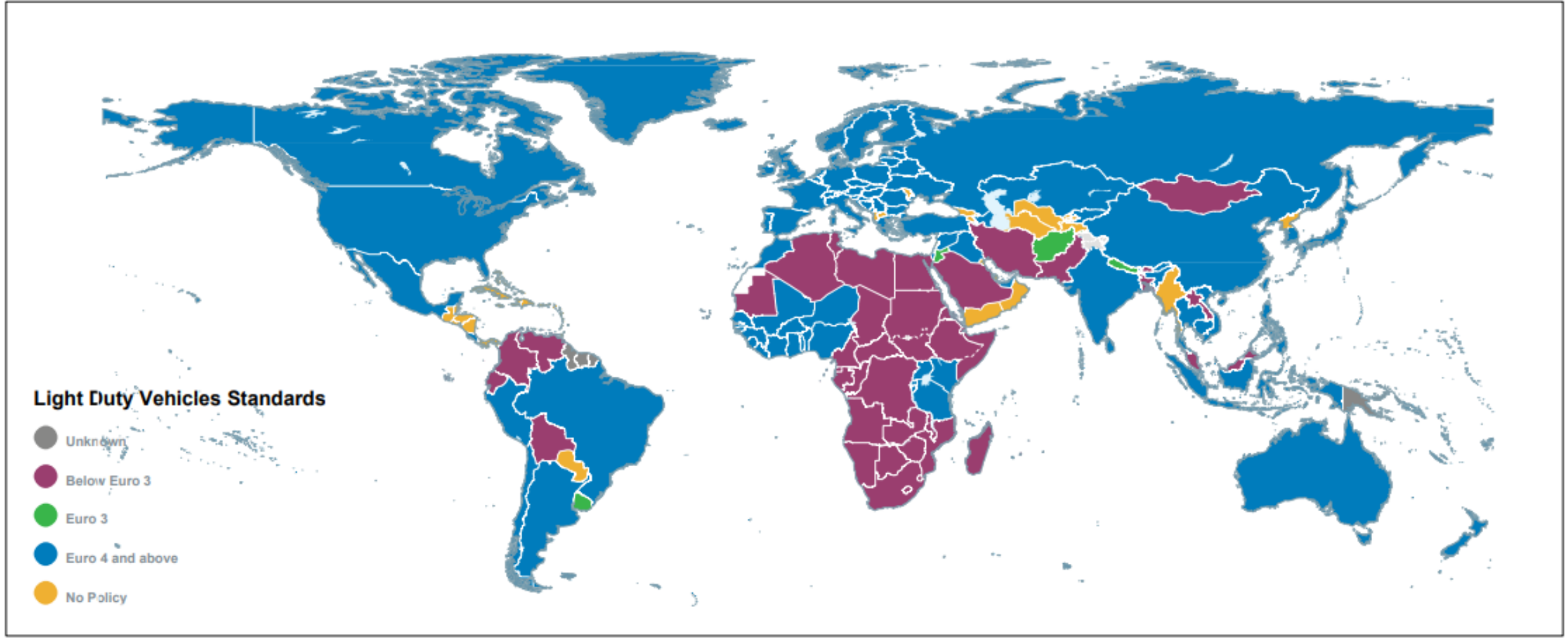
Growth of the Global Light Duty Vehicle Fleet 2000 to 2050 – OECD vs non-OECD (IEA 2017)



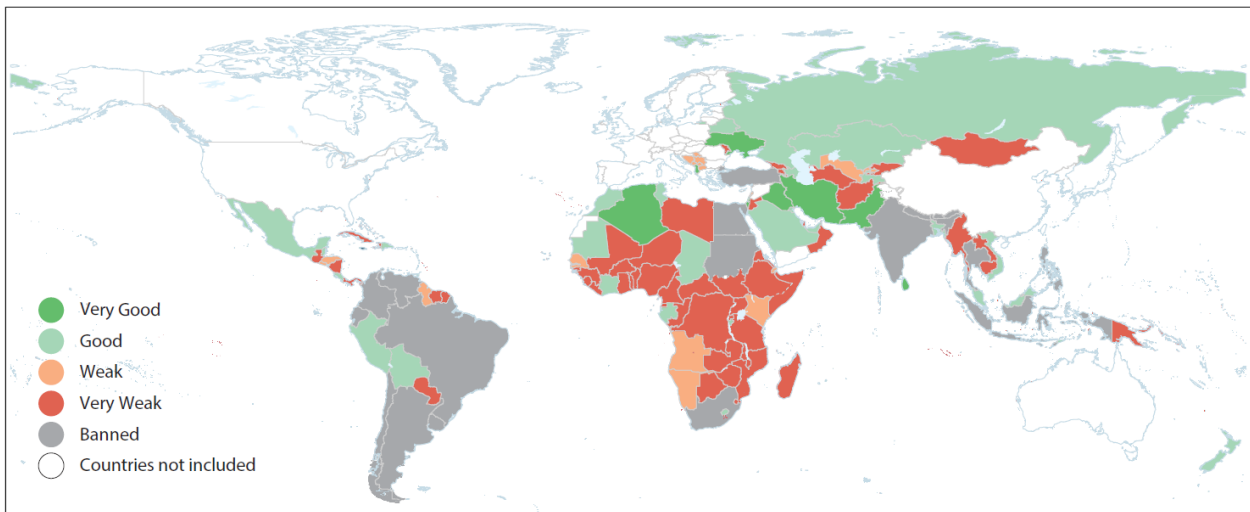
Source: International Energy Agency, 2017



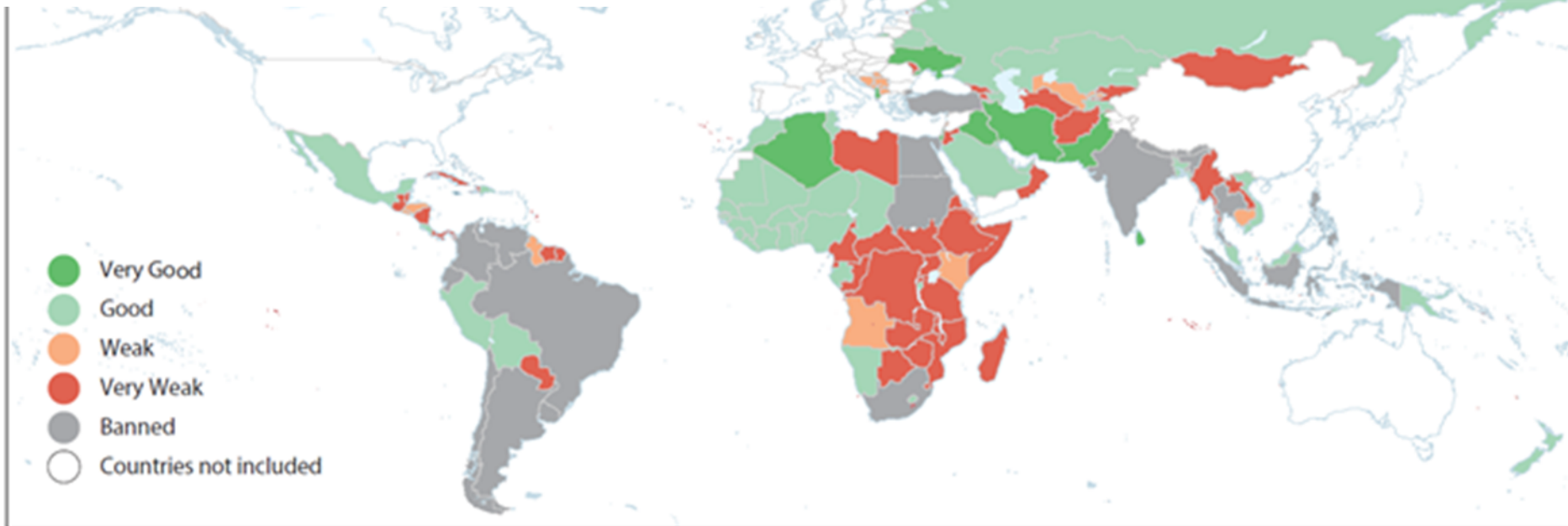
Global Light Duty Vehicle Emissions Standards (June 2022)



Regulatory Regimes for Used Vehicles – UNEP assessment



2020



2021
including
country
commitments

Source: Based on 146 countries studied up to August 2021 (UNEP data)

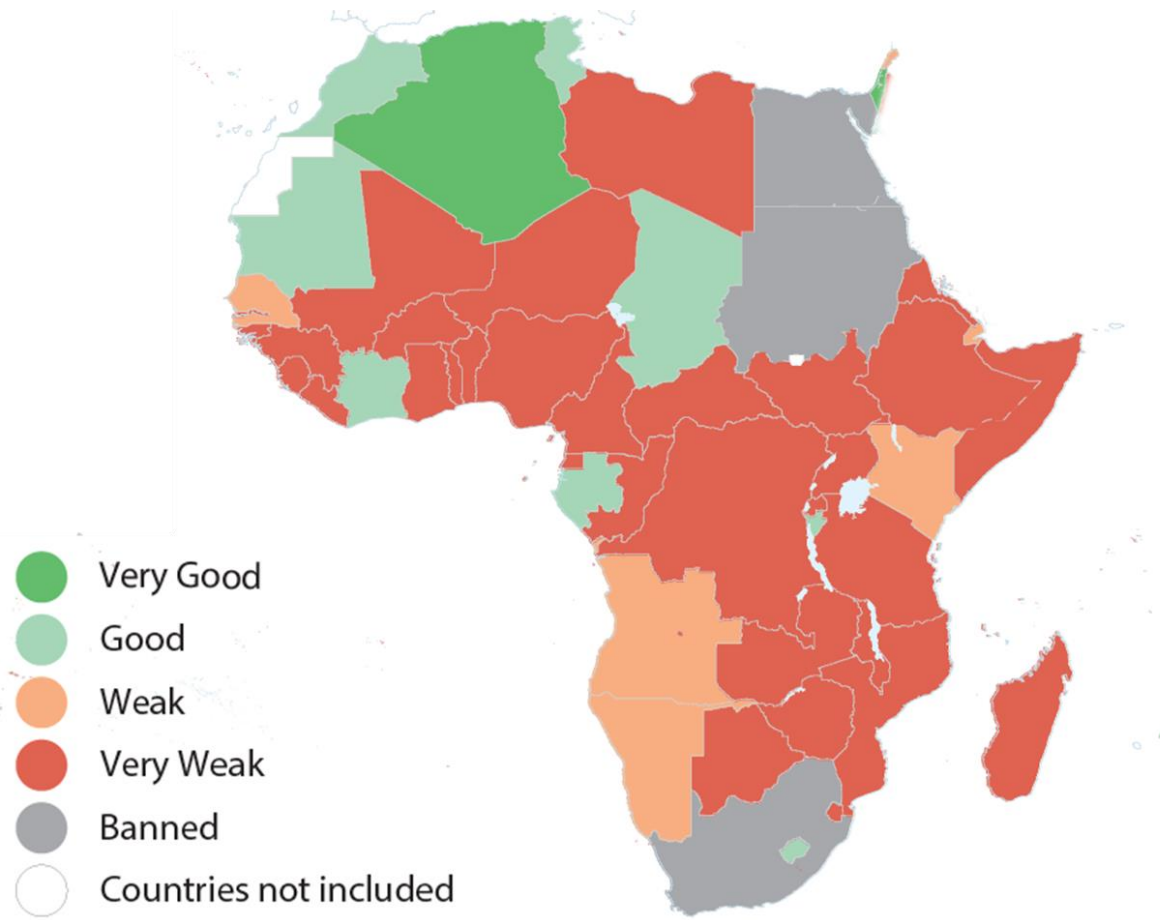


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Africa

Most countries have weak LDV regulatory framework



Regulatory Environment Ranking (UNEP)	Countries	Region
Very Good	Algeria, Mauritius	2
Good	Chad, Côte d'Ivoire, Gabon, Lesotho, Mauritania, Morocco, Rwanda, Tunisia	8
Weak	Angola, Djibouti, Kenya, Namibia, Senegal	5
Very Weak	Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Comoros, Congo, Democratic Republic of Congo, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gambia, Ghana, Guinea, Guinea Bissau, Liberia, Libya, Madagascar, Malawi, Mali, Mozambique, Niger, Nigeria, Sao Tome & Principe, Sierra Leone, South Sudan, Somalia, Tanzania, Togo, Uganda, Zambia, Zimbabwe	35
Banned	Egypt, South Africa, Seychelles, Sudan	4

Export of Used Vehicles to Africa

Country Name	2015					2016					2017					2018					
	LDV	HDV	Hybrid	Electric	LDV All	LDV	HDV	Hybrid	Electric	LDV All	LDV	HDV	Hybrid	Electric	LDV All	LDV	HDV	Hybrid	Electric	LDV All	
AFGHANISTAN	708	274			708	486	234			486	590	264	2	0	592	1026	270		0	0	1026
ALBANIA	16960	412			16960	25634	660			25634	28096	580	58	12	28166	35342	724	26	10	35378	
ALGERIA	884	6			884	2346	26			2346	23896	36	114	2	24012	31242	28	0	0	31242	
ANGOLA	774	4			774	154	0			154	452	2	0	0	452	372	4	0	2	374	
ANTIGUA AND BARBUDA	14	0			14	32	0			32	72	0	0	0	72	66	0	0	0	66	
ARGENTINA	590	4			590	510	8			510	426	0	2	8	436	266	2	2	0	268	
ARMENIA	1808	34			1808	868	24			868	1508	56	0	0	1508	3326	60	0	0	3326	
ARUBA	322	0			322	314	0			314	340	0	0	2	342	244	0	2	4	250	
AUSTRIA	56942	316			56942	68790	484			68790	86476	516	518	992	87986	85955	572	644	316	86915	
AZERBAIJAN	2956	22			2956	696	2			696	2046	8	26	2	2074	12286	6	6	2	12294	

	Africa			
	2015	2016	2017	2018
Japan	223736	181466	230109	270114
EU	996476	869408	852106	1046046
USA	102005	66071	82261	140634
				1458812

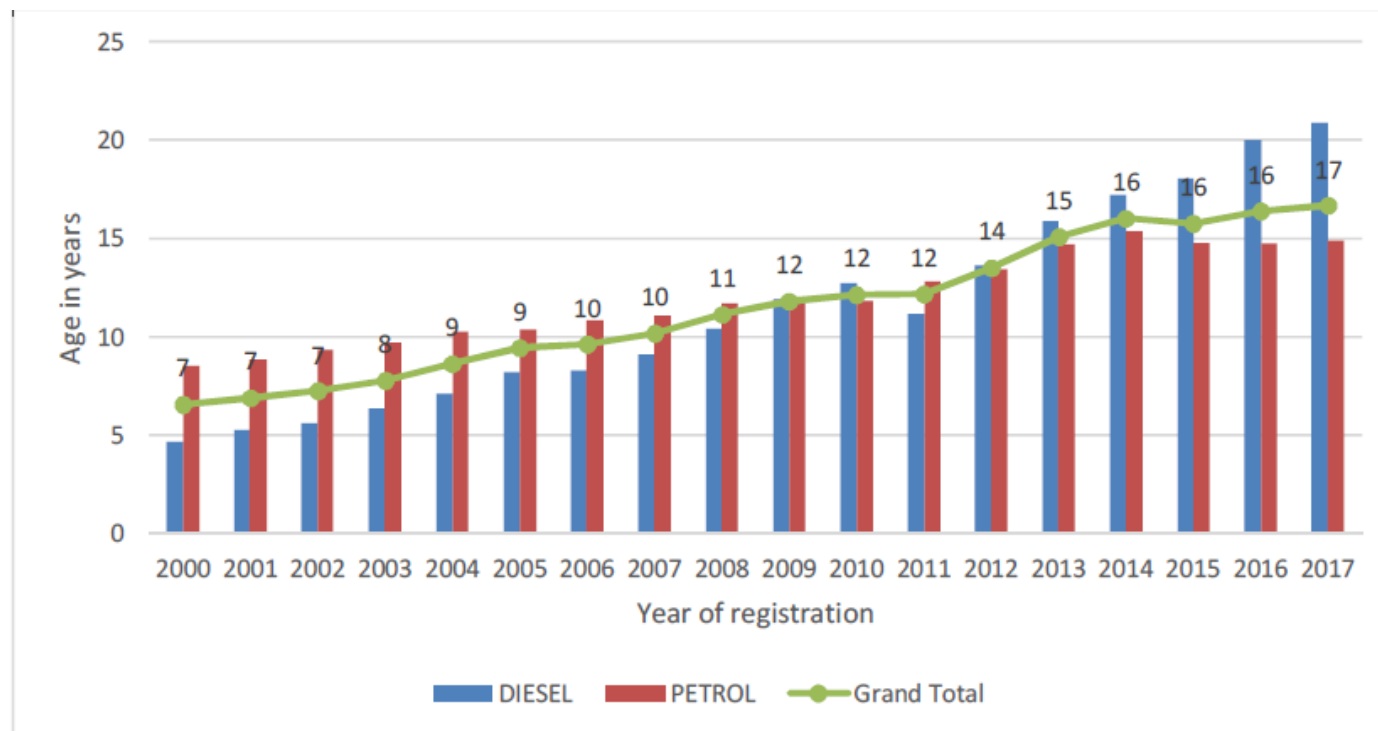
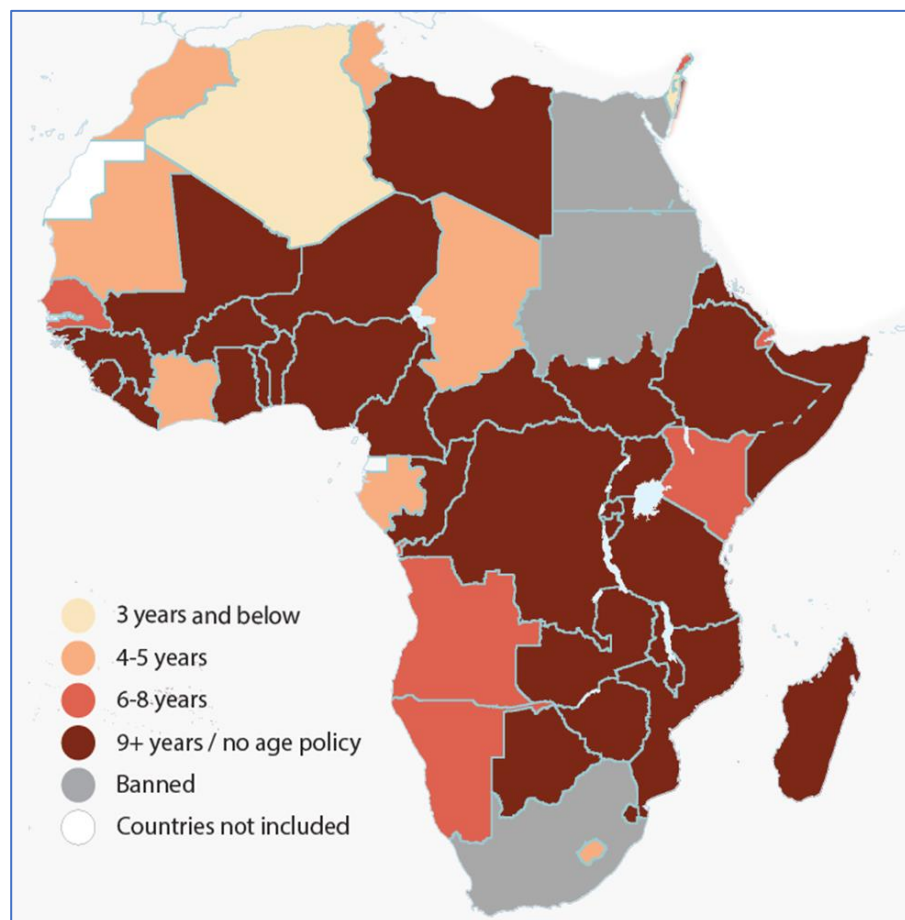
Example Nigeria

- 2013-2017 – 94% = used vehicles (6% new)

2018 imports used LDVs:

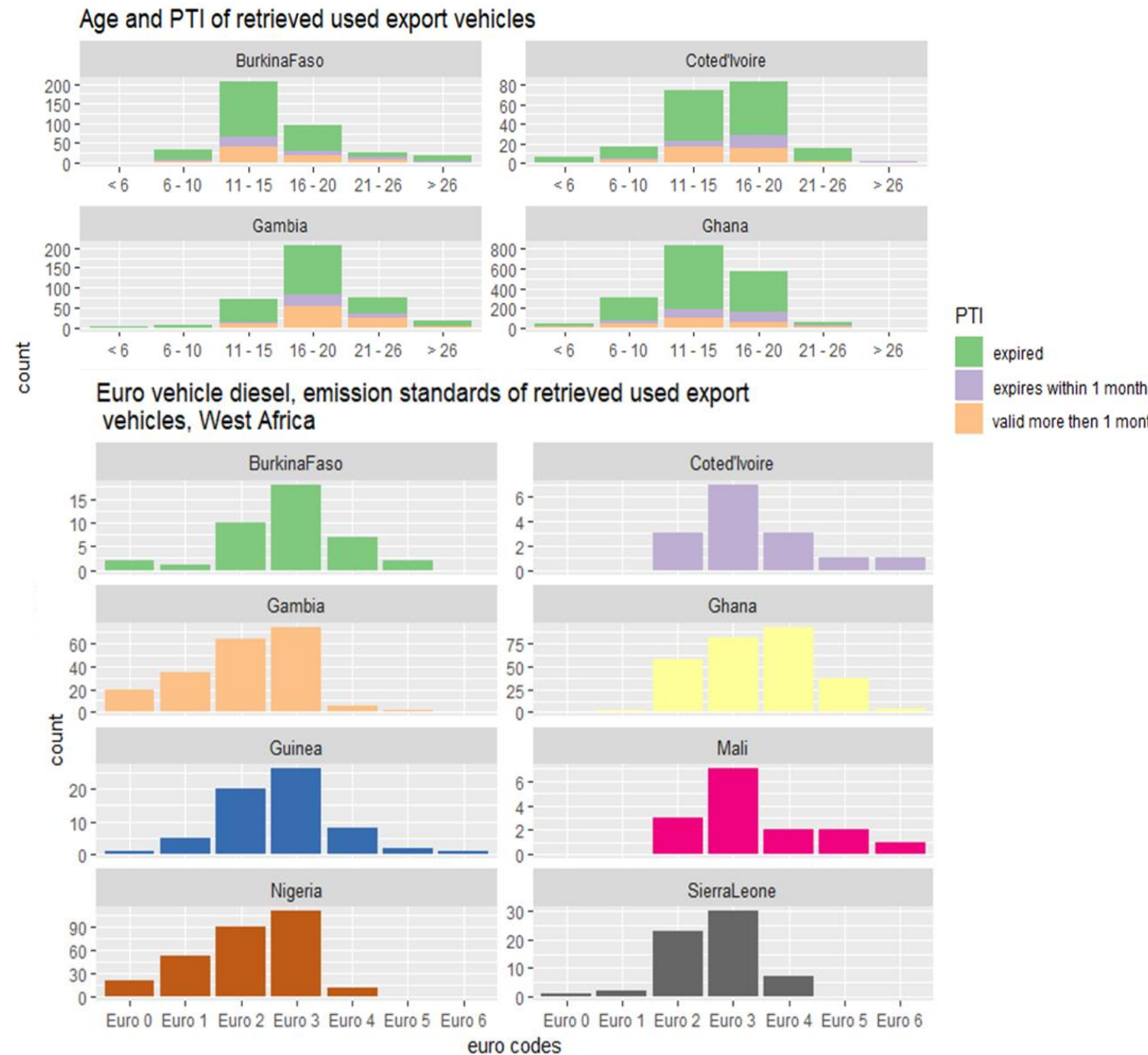
- Total: 238,061
- EU imports: 154,212
- US imports: 82,180

Average age of newly imported vehicles: Example of Uganda



Case Study Netherlands

- Age 15-20 yrs (18 average)
- Almost all pre EURO4
- Far majority no PTI



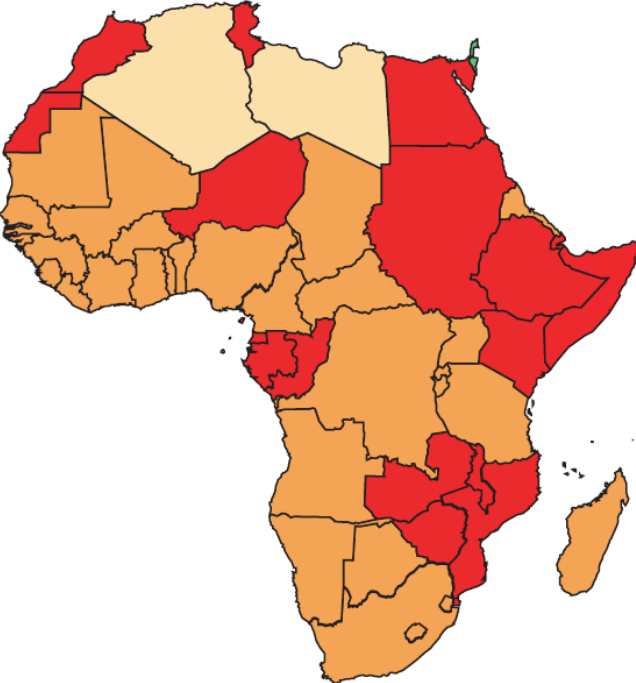


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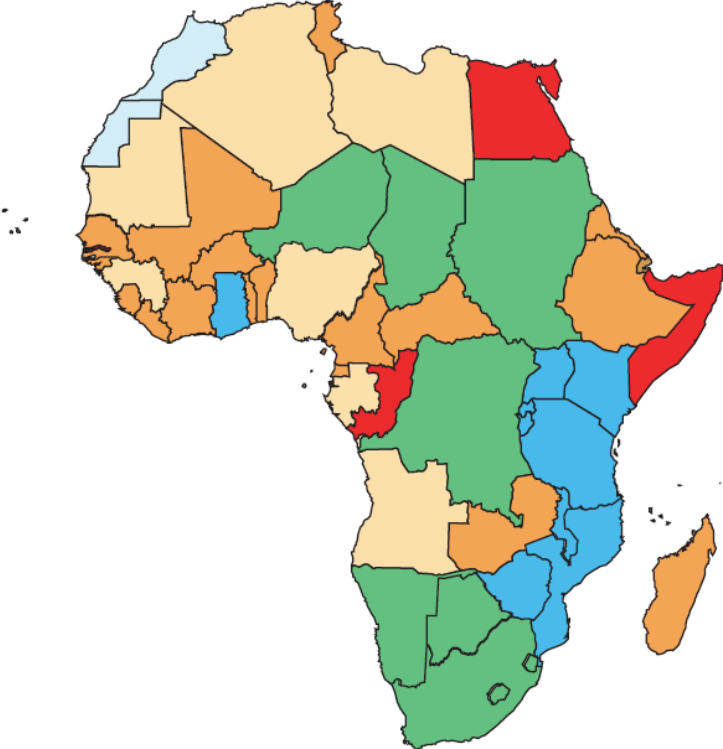
Regulations

2002

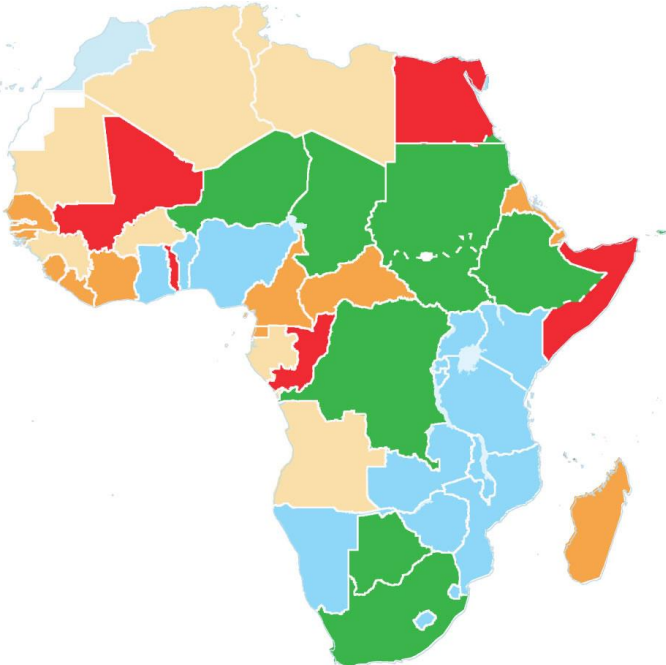


Introduction of low Sulphur Diesel fuels in Africa

2018

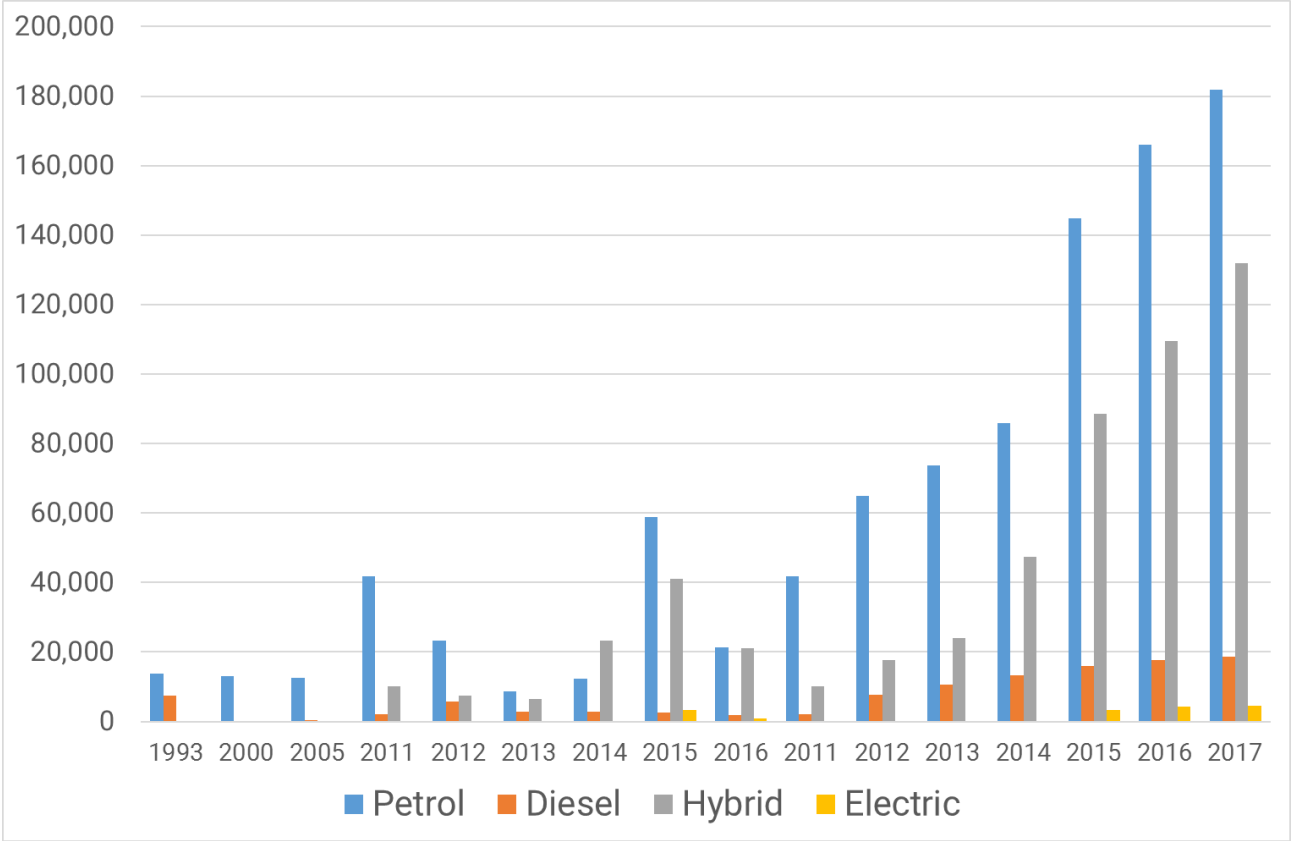


2022

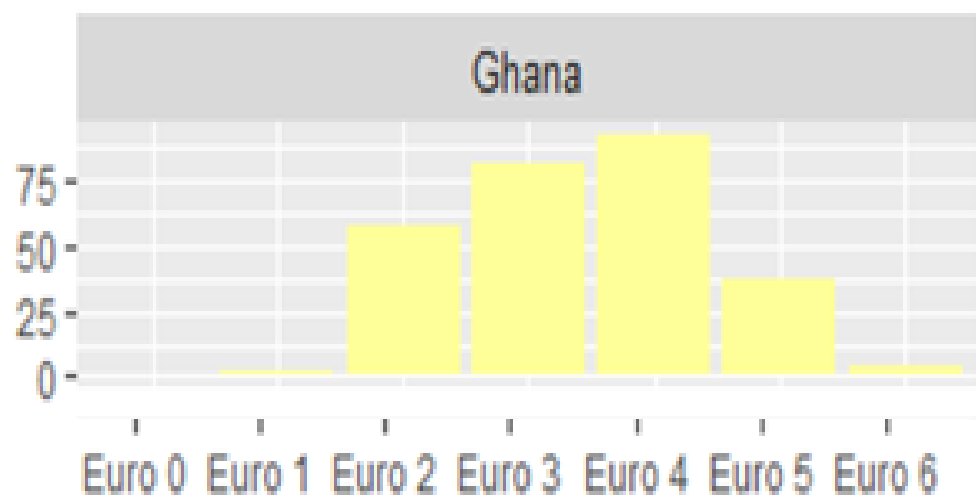
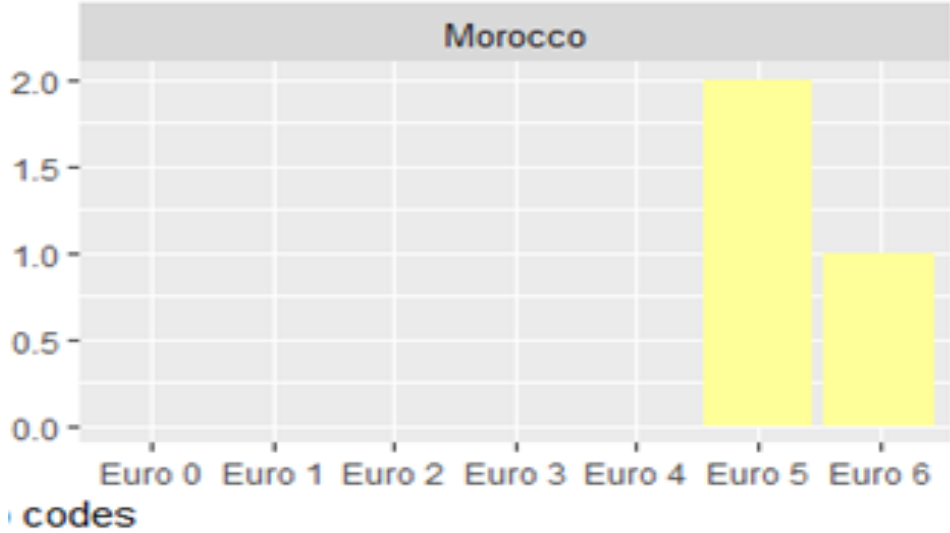


- 15 & Below*
- >15 - 50
- >50 - 500
- >500 - 2000
- >2000 - 5000
- >5,000 & Above
- Conflicting/Missing Data

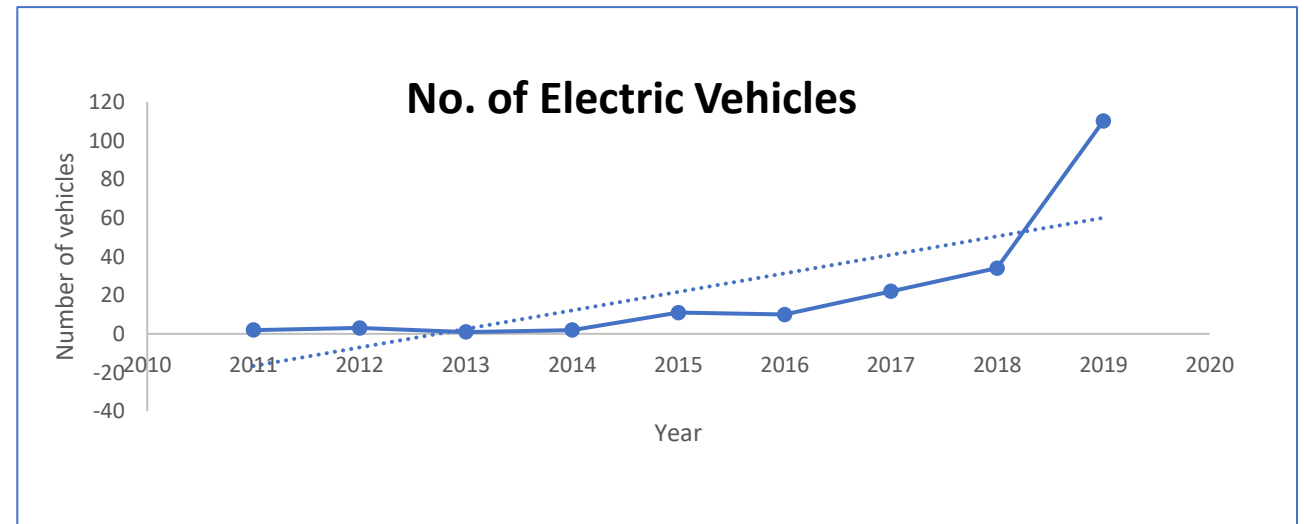
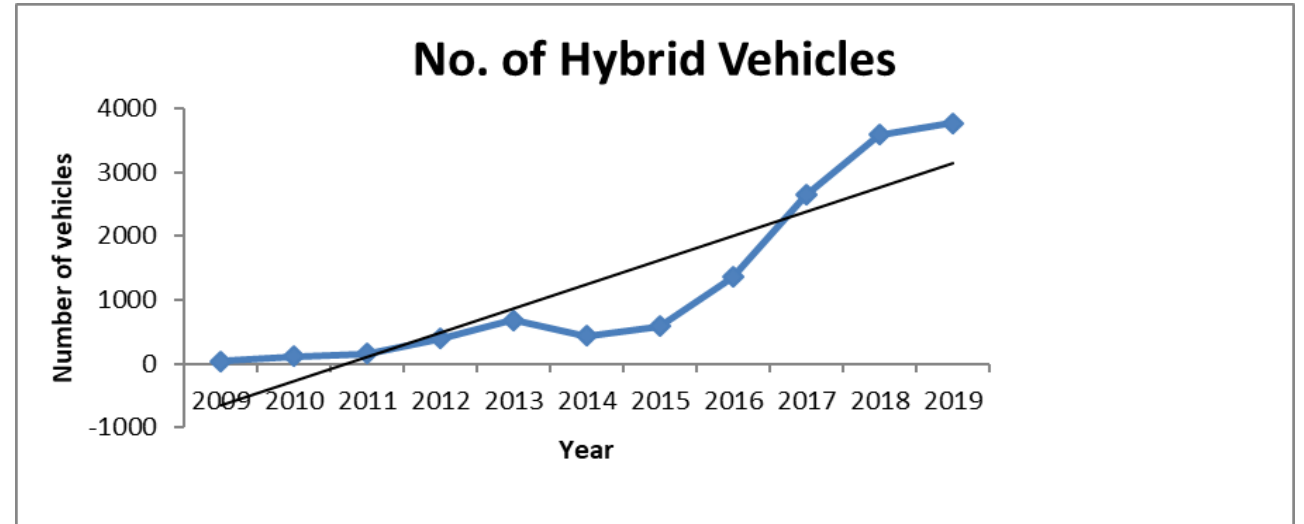
Regulations work – example Sri Lanka



Regulations work – examples Morocco and Ghana



Regulations work – Example of Mauritius



Leap Frogging Opportunities



2011/3 NISSAN LEAF G

Price: **\$4,293**

Total Price: **\$ 5,613**

★ Add to Favorite

Location: JAPAN OSAKA

Mileage		Engine		Trans	
40,000		80kw (EM61)		AT	
ZAA-ZE0	ELECTRIC	RHD	2WD	5 Seats	5 Doors

Stock Id: VK8292

Power Steering | Air Conditioner | Rear Spoiler | Navigation | Air Bag | Anti-Lock Brake System | Fog Lights | Power Windows



STOCK 2014 Nissan Leaf

GSDTVBLE

AZE0-110***

IAA Co.,LTD: ★★★★★ ?

Year	Engine Capacity	Mileage	FOB Price	Estimated Total Price ?
2014	70cc	52,000km	US\$9,845	> Select your Country & Nearest Port

AT No Accident



STOCK 2015 Nissan Leaf

4★ G★ Pure Navi Cruise control TV Bcam ETC LED

AZE0-117***

BT-Cars: ★★★★★ ?

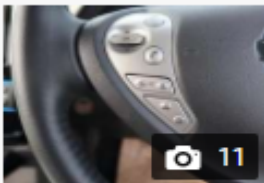
Year	Engine Capacity	Mileage	FOB Price	Estimated Total Price ?
2015	1,000cc	20,125km	US\$11,970	> Select your Country & Nearest Port

2015 Nissan Reef G Pure Navi TV B Camera ETC Sheet Heater Aluminum *

RHD Electric CVT 2WD No Accident

★ Add to Favorite

Send



Auction Grade 4.5 B

NEW
NISSAN LEAF
(AZE0)
Ref: CFJ1868519

Favorite

Compare

2016/-

1,500 cc

11,000 km

-

-

Japan

US\$15,602

Select final country & port

Free Quote

Benefits of Quality Used Vehicles for Africa

Going from: current situation mainly Euro 2&3; average age 18 yrs; no PTI

To: minimum Euro 4; age ~8 yrs; valid PTI

	Key Issue	Benefits
Road safety	Key safety equipment missing or removed – ABS, ESC, airbags; crumple zones	Crash avoidance (ABS); impacts improvements (ESC); reduced fatalities (Airbags); crumple zones (reduced fatalities) – together major reduction of crash impacts (~50%)
Environment	Exhaust filters faulty, missing or removed; reduced fuel economy	Common pollutants reduced by ~80-90%; increased efficiency/ reduced CO2 emissions – ~5-10%



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UNEP Project

UNRSF Quality Used Vehicles for Africa

- To support the introduction of harmonized regulations for used vehicles in Africa
- With safety and environment benefits
- Lead by UNEP; UNECE; CITA, FIA
- Partners: UNECA; AU;
- Focus on importers (EU; Japan; US) and exporters
- Sub regional approach; phase I: East (EAC) and West Africa (ECOWAS)

Progress to Date

- Proposals
 - EURO4 minimum harmonized standard
 - Meeting roadworthiness PTI at export
 - Age limit
 - Special role low and no emissions vehicles
- Progress
 - ECOWAS adopted
 - EAC adopted
 - EU has started consultations (new and-of-life vehicles directive)
 - UNEA6 – adopted text on used vehicles
 - Next: other importers (other sub regions - SADC) and exporters US & Japan
 - Phase II project


West Africa - ECOWAS clean fuels and vehicles directives

- September 2020 ECOWAS Council of Ministers adopted regionally harmonised fuel and vehicle standards
- New set of fuel quality standards
- EURO4 minimum vehicles emissions standards new & used vehicles
- Used vehicles age restrictions – 5yrs for LDV, 10yrs for HDV – 10 yrs to implement
- Adopted fuel economy roadmap



COMUNIDADE ECONOMICA DOS
ESTADOS DA AFRICA OCIDENTAL

ECONOMIC COMMUNITY OF
WEST AFRICAN STATES



COMMUNAUTE ECONOMIQUE
DES ETATS DE L'AFRIQUE DE
L'OUEST

Original: French

FIFTY-SEVENTH ORDINARY SESSION OF THE ECOWAS
AUTHORITY OF HEADS OF STATE AND GOVERNMENT

7 September 2020, Niamey, Republic of Niger

FINAL COMMUNIQUE

1. The Fifty-seventh Ordinary Session of the Authority of Heads of State and Government of the Economic Community of West African States (ECOWAS) was held on 7 September 2020 in Niamey, Republic of Niger, under the chairmanship of **H.E. Issoufou Mahamadou**, President of the Republic of Niger and Chair of the Authority.

2. Present at the Summit were the under-listed ECOWAS Heads of State or their duly mandated representatives:

H.E Roch Marc Christian Kabore, President of Burkina Faso
H.E Alassane Ouattara, President of the Republic of Cote d'Ivoire;
H.E. Adama Barrow, President of the Republic of The Gambia;
H.E Nana Addo Dankwa Akufo-Addo, President of the Republic of Ghana;
H.E. Umaro Sissoco Embaló, President of Guinea Bissau;
H.E Issoufou Mahamadou, President of the Republic of Niger;
H.E Muhammadu Buhari, President of the Federal Republic of Nigeria;
H.E Macky Sall, President of the Republic of Senegal;

Page | 1

East Africa

- May 2022 East Africa Community Council of Ministers adopted regionally harmonised Euro 4/IV standards, and in-use vehicle emission limits
- After the EAC standard was gazetted early July, countries have 6 months to adopt standard as national law.
- UNEP support to Kenya and Rwanda
- 2019 Euro 4/IV standards were adopted by both countries
- Rwanda implementation ongoing (COVID delay)
- Kenya implementation date 1 July 2022 for imported used LDVs/MDVs
- import of used buses and trucks is to be banned to grow the local industry
- Court case halted implementation
- The EAC standard followed closely the Rwanda adopted standard as it included comments from WTO etc as it went through international process.
- In the meantime EAC harmonised standard May 2022. Kenya is aligning the national standard with the regional one and they plan to have this finalized and implemented end of the year.



Kenya Bureau of Standards
Standards for Quality life
Tel: 020 9948000 | Toll Free: 1545 | Email: pvoc@kebs.org | www.kebs.org

PUBLIC NOTICE ON IMPLEMENTATION OF KS 1515:2019

Kenya Bureau of Standards (KEBS) is a statutory body established under the Standards Act, CAP 498, of the Laws of Kenya. KEBS is mandated to offer quality inspection of imports based on Kenya Standards or approved specifications among other services.

Following the declaration of **KS 1515: 2019 - Road Vehicles — Inspection of Road Vehicles — Code of Practice** as a mandatory Kenya Standard by the Cabinet Secretary for Industrialization, Trade and Enterprise Development, KEBS wishes to inform all stakeholders and the general public that effective 1st July 2022:

- All USED passenger Minibuses, Midibuses, Large buses, Single articulated and Bi-articulated buses and Double-decker buses shall not be allowed for importation into the country. However, used passenger Microbus (up to 7 m overall length) shall continue to be imported into the country provided they are NOT older than Eight (8) years from the year of first registration.
- All USED rigid Trucks with Gross Vehicle mass (GVM) equal to or greater than 3.5 tons and up to and including 30 tons shall not be allowed for importation into the country.
- Only tractor heads and Prime movers not older than three (3) years from the year of first registration shall be allowed for importation. This shall apply up to 30th June 2023 after which NO used tractor heads and prime movers shall be allowed for importation into the country.
- All other USED Road vehicles not mentioned above shall continue to be imported into the country provided that they are NOT older than eight (8) years from the year of first registration.
- All imported new diesel-powered, and petrol (gasoline) powered vehicles shall be type-approved to meet the requirements of EURO IV/4 before importation into the country.

Importers and members of the public are encouraged to buy the standard from the KEBS library or KEBS webstore - <https://webstore.kebs.org> to familiarize with the requirements of the standard.

For further clarification, please contact KEBS on Telephone **+254 20 6948423 / 456 / 439 / 000** or E-mail: pvoc@kebs.org or info@kebs.org

MANAGING DIRECTOR

KEBS implements an Anti-Arbitrary Management Policy accessible through KEBS Website www.kebs.org

www.kebs.org 

Ongoing & Challenges

- Implementation West Africa (implementation)
- Implementation East Africa (court cases)
- Exporters (progress, objections)
- Rest of Africa
- Global agreement?

ECONOMY

UK protests Kenya ban on second-hand buses, trucks

WEDNESDAY AUGUST 24 2022



Thank you

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