

# UNEP's Low and Zero Carbon Mobility Programs



*“Electric vehicles would need to displace fossil-fuel powered passenger vehicles by 2035 - 2050 to remain in line with 1.5C consistent pathway.”*

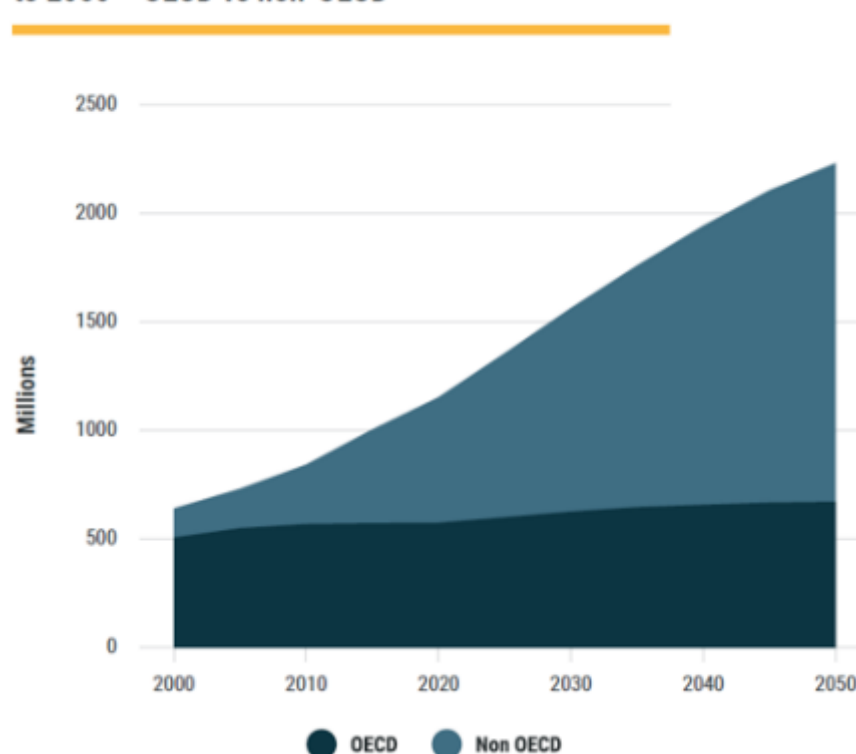
*(IPCC October 2018)*



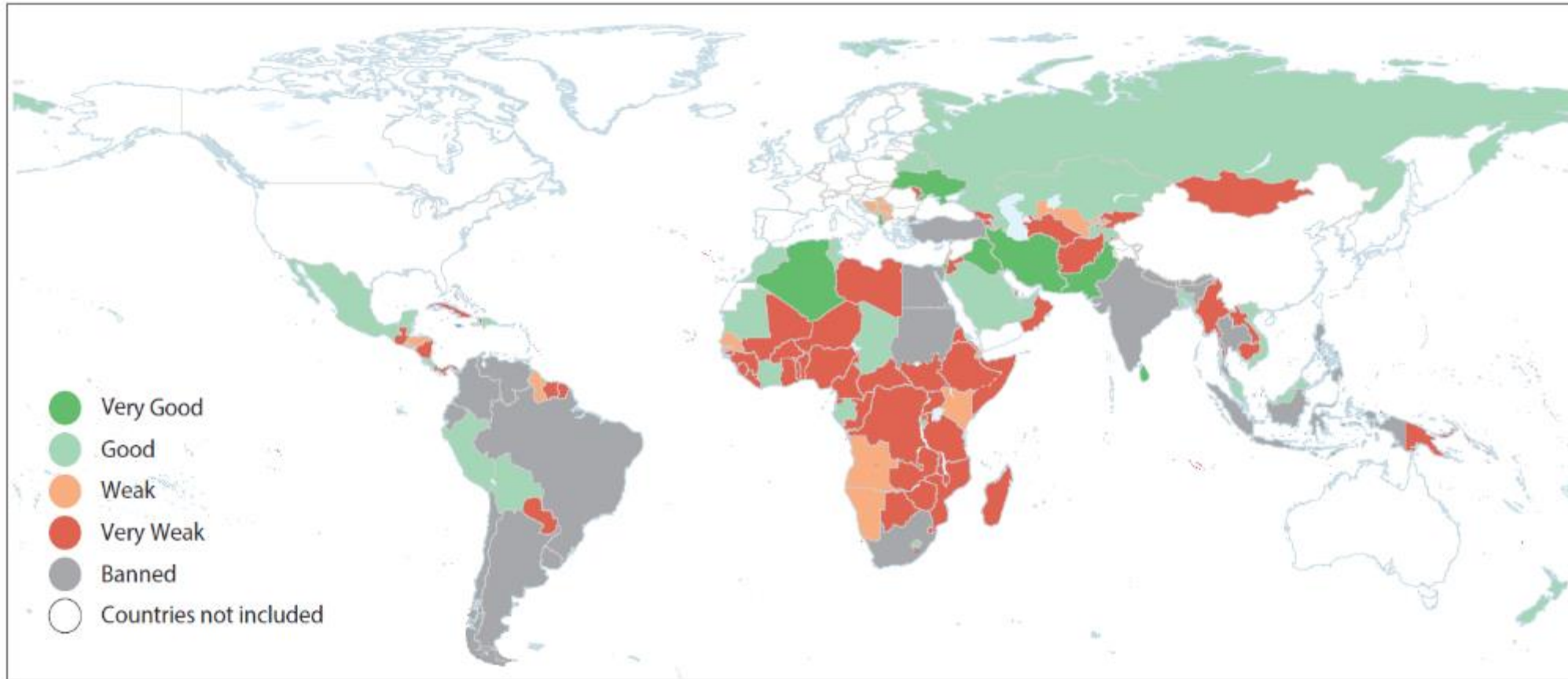
# Key trends

- The global vehicle fleet is set to double by 2050 adding 1+ billion vehicles in non-OECD countries (low- and middle-income countries – LMICs)
- In 2050, two out of three vehicles will be found in LMICs
- Many **conventional vehicles** are still going to be added, with a time-lag in **fleet turnover of 20 years**
- Transport sector emissions are growing faster than any other sector

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

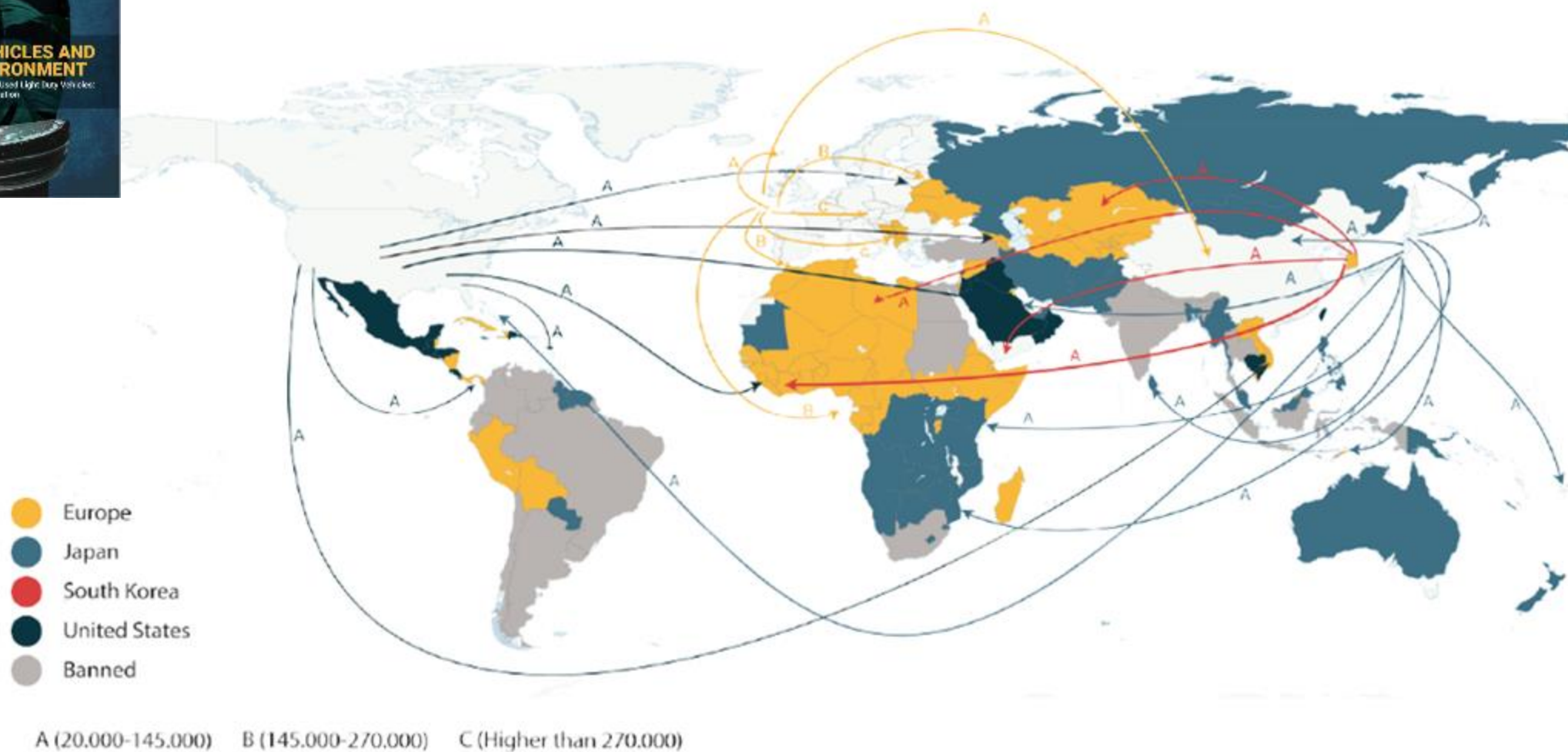
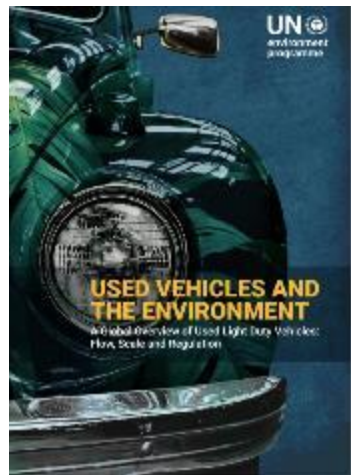


# Regulatory Regimes for Used Vehicles – UNEP assessment





# The Global Trade in Used Vehicles - Quantities



Source: UNEP, based on data from four exporting countries to 208 countries globally from 2020

# Way forward?

## *Integrated low carbon/phased EV approach*

- Export restrictions in OECD countries (circularity)
- Import restrictions of used fleet in non-OECD countries - policy frameworks restrict the imports of low quality vehicles- vehicles meet minimum criteria (Euro 4, age limit, filter inspection/certificates)
- Focus on public transport - resilient and green eBRTs, with NMT feeder lines and accessible fares
- Promote NMT investment along side any new road development (Share the Road)
- Phased approach to vehicle electrification, starting with 2/3 wheelers and private fleets; and e-buses
- Address high-up front costs through innovative and solutions oriented financing mechanisms



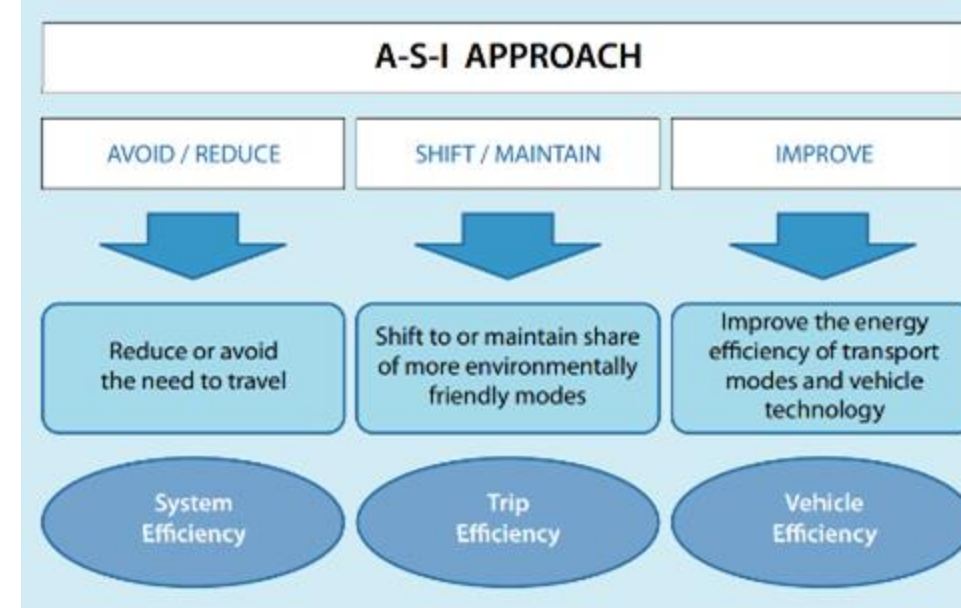
# UNEP innovative programs



## Clean Fuels for Clean Vehicles

A Strategy for the Global Switch to 50ppm sulphur Fuels to Reduce Emissions

Summary, 18 May 2022





# Walking and Cycling (Shift)

*Up to 78% of people walk for transport everyday to reach essential services*



*On average, up to one billion people spend 56 minutes walking or cycling for transport every day.*

31.7% of the population in Africa are within 500-1000m walking access to public transport - the lowest in the world.\*



Africa has only 3% of the world's registered vehicles, but 20% of global road traffic deaths. Estimates indicate that more than 260 000 people were killed on African roads in 2019. Of these 36% were pedestrians and 3% were cyclists.







































# About UNEP's Global Electric Mobility Programme






- Supports more than 50 low and middle-income countries with more than USD 70 million in grants and over USD 250 million in loans
- Funded by the GEF, the German Climate Initiative, the EU, foundations and bilateral development aid
- Jointly implemented with partners such as ADB, EBRD, IEA, Centro Mario Molina Chile, UNDP, UNIDO and the EC solutions plus project
- Comprises a global support programme for e-mobility advocacy, the creation of regional communities of practice & e-mobility market-places – regional support & investment hubs (ADB, EBRD, CMM & UNEP)
- Linked with other global and regional initiatives – TUMI Volt, ZEBRA, ZEV Alliance etc.


























Africa		
Burundi		UNEP
Cote d'Ivoire	 	UNEP
Ethiopia		UNEP
Ghana		UNEP
Kenya		UNEP
Madagascar		UNEP
Mauritius		UNDP
Mozambique		UNEP
Rwanda		UNEP / SOL+
Senegal		UNEP
Seychelles		UNEP
Sierra Leone		UNEP
South Africa		DBSA
Tanzania	 	UNEP / SOL+
Togo		UNEP
Tunisia		UNIDO
Uganda		UNEP
Zambia		UNEP

Asia		
Bangladesh		UNDP
India		UNEP / ADB
Indonesia		UNDP
Maldives	 	UNEP
Nepal	 	SOL+
Philippines		UNEP / SOL+
Sri Lanka	 	UNEP
Thailand		UNEP
Viet Nam		UNEP / SOL+

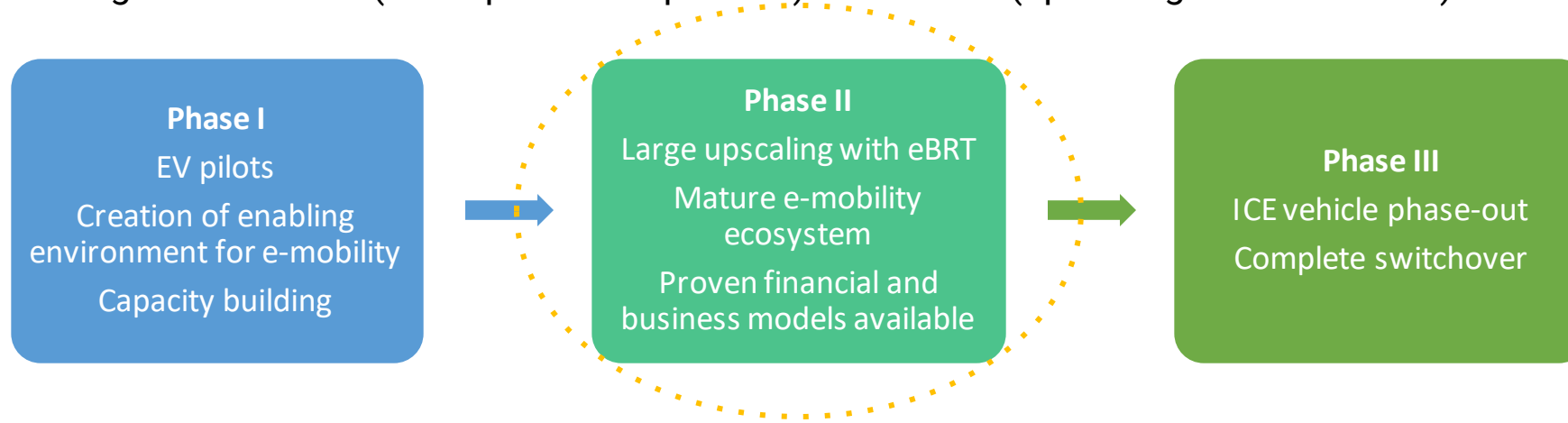
Central & Eastern Europe, West Asia, Middle East		
Uzbekistan		UNDP
Albania		UNIDO
Ukraine		UNEP / EBRD
Belarus		UNDP
Armenia		UNEP
Jordan		UNIDO

Latin America & the Caribbean		
Antigua & Barbuda	 	UNEP
Argentina		UNEP
Belize		UNEP
Colombia		UNEP
Costa Rica		UNEP
Chile		UNEP
Dominican Republic		UNEP
Ecuador		UNEP / SOL+
El Salvador		UNEP
Grenada		UNEP
Guatemala		UNEP
Honduras		UNEP
Jamaica		UNDP
Nicaragua		UNEP
Panama		UNEP
Paraguay		UNEP
Peru	 	UNDP
St. Lucia		UNEP
Uruguay		SOL+



# Phased EV transition

- UNEP – many country projects on decarbonization of transport
- Going from Phase I (initial pilots and policies) to Phase II (upscaling & wide roll out)



- Phase II needs sizeable financing and technical support
- Building on UNEP country projects and wide experience in working in Africa
- Teaming up with MDBs – MDBs to lead finance & UNEP to lead technical assistance
- World Bank – launching two new electric mobility funds at COP27, one global and one for Africa, that could be used for co-financing and blending





# Thank you!

