eMob Electric Mobility

UN environment
United Nations Environment Programme





The Global Electric Mobility Program





I – Urgent need to move to Low and No Emissions Mobility

A need to move to Low and No Emissions Mobility….for better Air Quality











A need to move to Low and No Emissions Mobility….for Climate Change

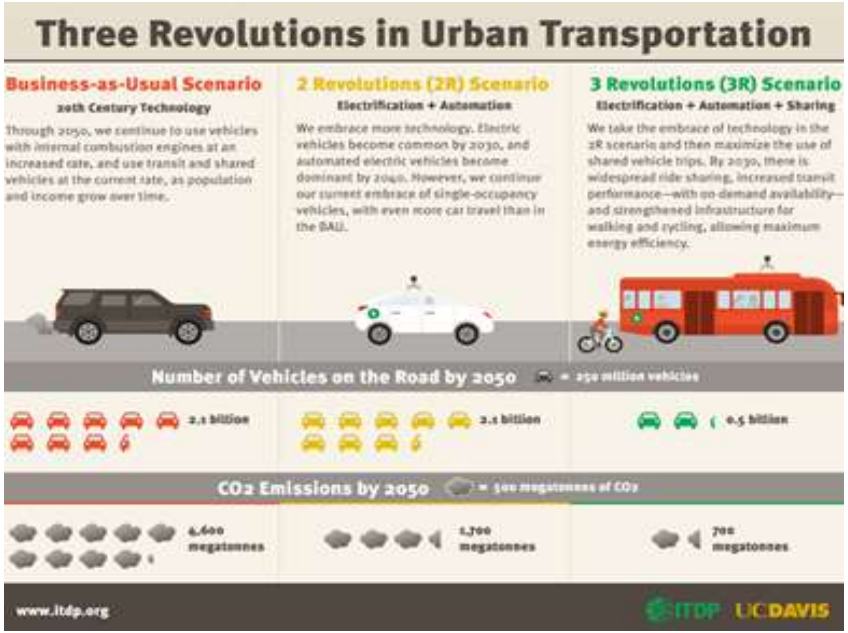
IPCC October 2018 on achieving a 1.5C Climate Scenario:

"High growth rates are now appearing in electric vehicles, electric bikes and electric transit, which would need to displace fossil-fuel powered passenger vehicles by 2035-2050 to remain in line with 1.5C consistent pathway."

A need to move to Low and No Emissions Mobility….Only One Part of the Solution

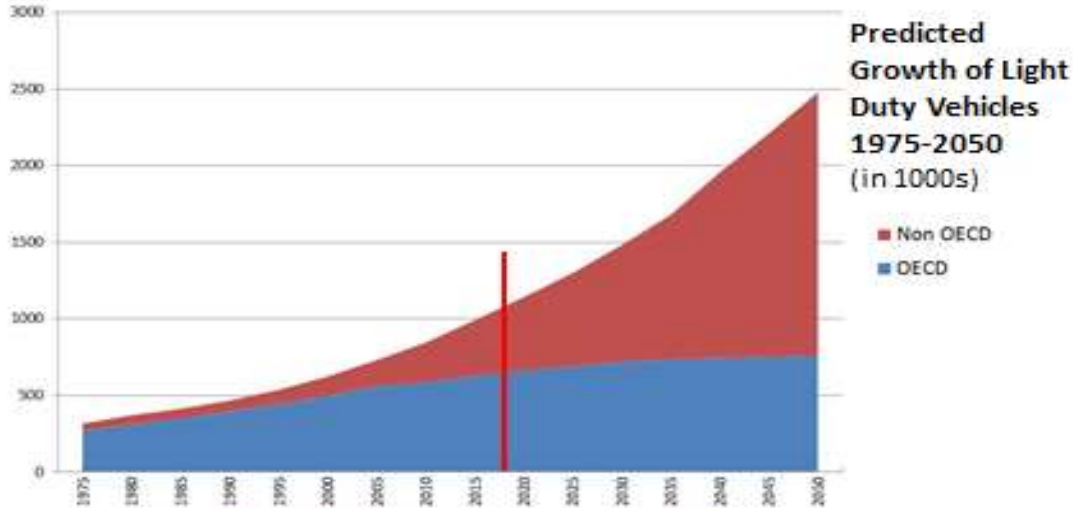
3 Revolutions:
(0. *Avoid*)
1. **Share**
2. **Electrify**
3. **Automate**

A combined approach of electrification and shifting to NMT & public transport ***can result in 80% CO2 emissions reductions*** *– going from 4.600 megatons CO2/ yr to 700 megatons CO2 (2050)*



A need to move to Low and No Emissions Mobility….Need for Global Approach

Growth of Global LDV Fleet (IEA 2015)



II – Ongoing UNEP Efficient Vehicles Policies Country Projects

Promoting more Efficient Vehicle fleets (taxation reform & standards)

Global Fuel Economy Initiative – Doubling the Efficiency of the Global fleet

GLOBAL FUEL ECONOMY INITIATIVE
FOR ZERO CARBON VEHICLES BY 2050

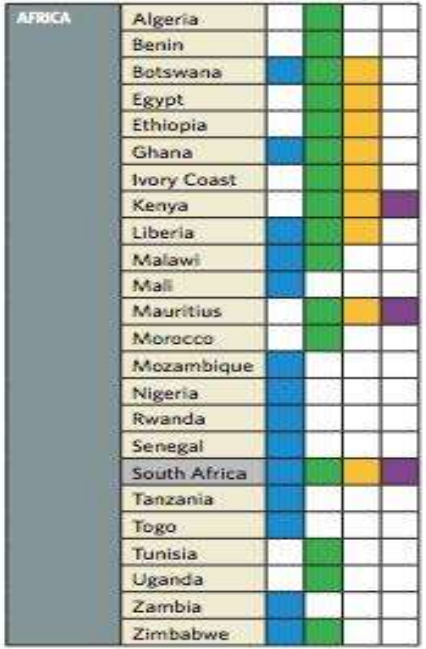
Progress – the topic of the efficiency of the global vehicle fleet is now part of global climate targets and programs. The GFEI is tracking global progress. Over 60 country projects are supported with the development of programs and policies to improve the efficiency of their vehicles fleets

Target is to support 60 countries complete national policies (mainly fiscal reforms)

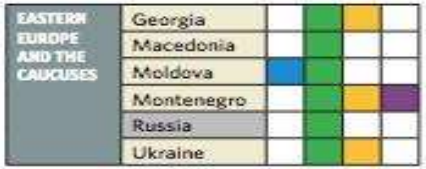
GFEI – Country Projects

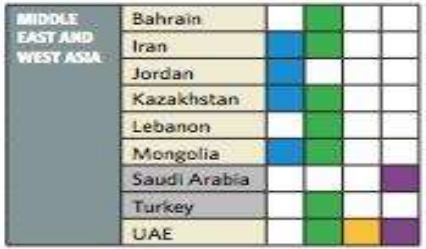
GLOBAL FUEL ECONOMY INITIATIVE
FOR ZERO CARBON VEHICLES BY 2050

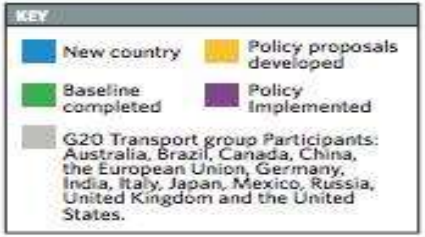
GFEI works with countries to develop a baseline analysis of vehicle trends and support policy proposals.

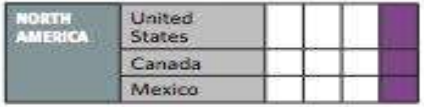


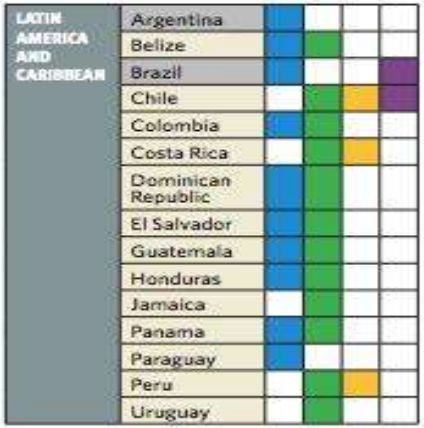






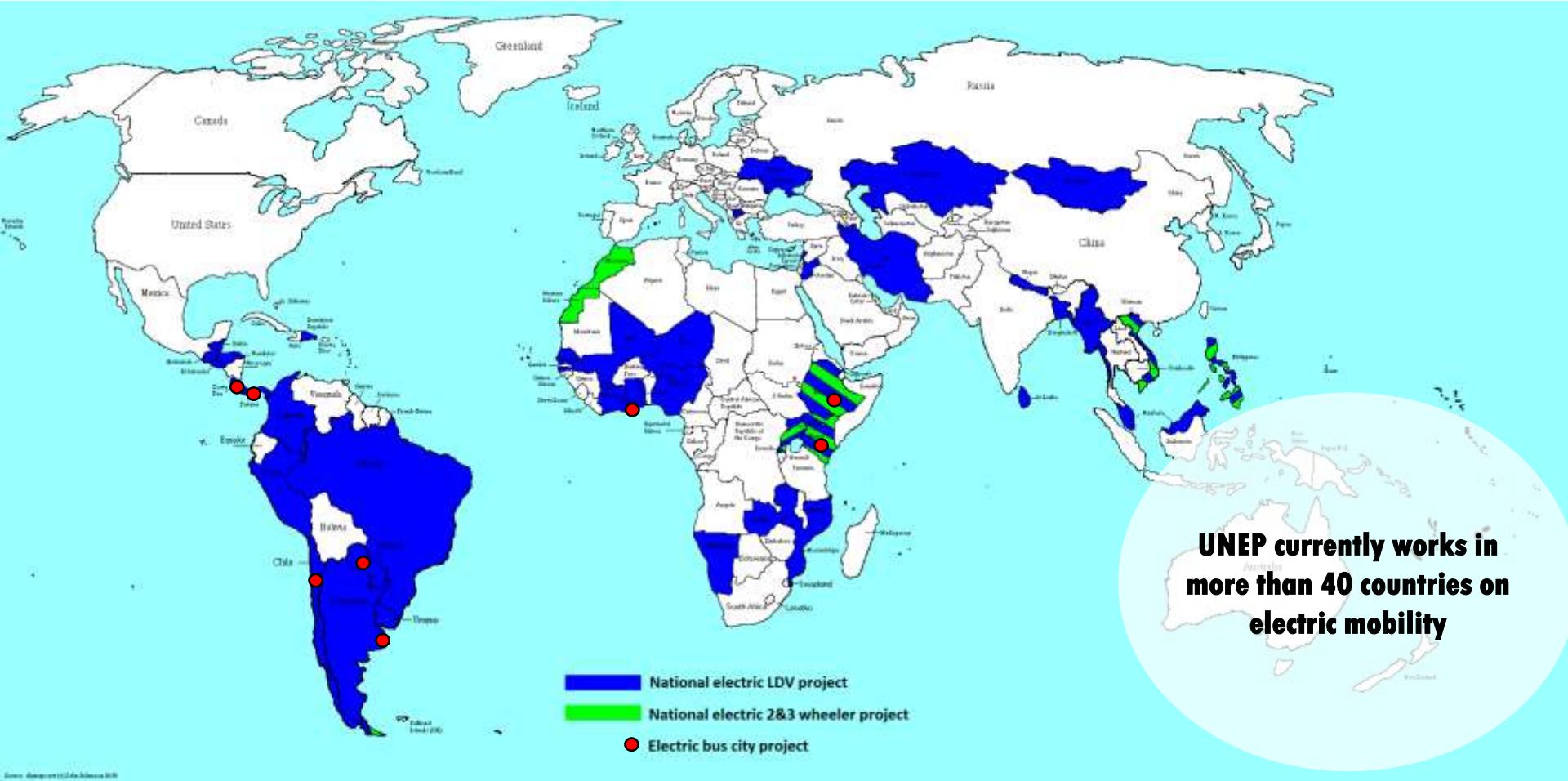






III – Ongoing Electric Mobility Projects

Current UN Environment E-Mobility Projects



Ongoing Projects

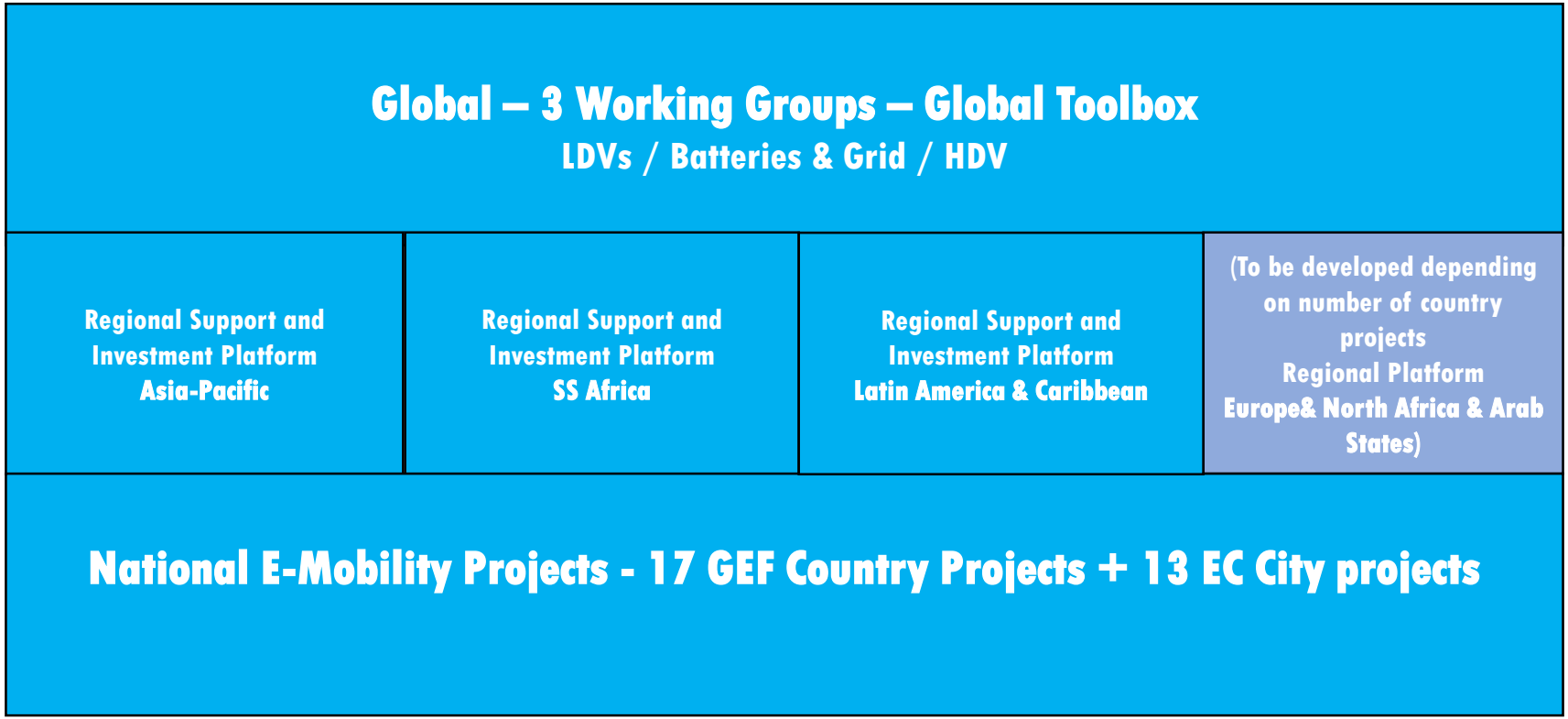
Electric two and three wheelers	Electric light duty vehicles	Electric buses
• Economically viable • Technically mature • No dedicated charging infrastructure required • High growth rates of two wheeler market in Asia and Africa	• Close to break-even with conventional cars • Technically mature • Highest mitigation potential of global transport energy use and emissions	• Close to break-even on high capacity lines • High potential to improve local air quality • Manageable recharging infrastructure requirements

IV - The GEF7 and EC Global Electric Mobility Programme

GEF7 + EC Solutions+ projects:

- **Additional Electric Mobility projects – Countries and Cities** (30)
- **Creation Regional Investment and Support Platforms** (3)
- **Creation Global Working Groups** (3)

Structure of the Programme



GEF7 & EC Electric Mobility Programme

- **Objective:** Support low and middle income countries & cities with the shift to electric mobility to reduce transport GHG emissions
- **Size:** 17 (GEF) and 13 Country/ cities (EC) countries
- **Budget:** USD 35 million GEF - loan component 400 mln+ - EURO 18 mln EC funds
- **Time frame:** 2020 to 2024
- **Project coordinator:** UNEP & IEA (GEF); Wuppertal Institute (EC)
- **Linked** with other global and regional initiatives and large set of partners
- **Major co-benefits** for air quality/health
- **Second Phase:** additional projects to join in 2020

The Country & City Projects are Key!

Countries will benefit from:

- Support for the development of **e-mobility strategies**
- On the ground e-mobility experience through project funded **e-mobility demonstrations**
- Support with establishment of **standards and policy framework including fiscal, regulatory and local policies**
- Support for the development of **financial schemes and business models**
- **Lower procurement cost of EVs** (creation of a critical mass and transparent market information)

GEF7 and EC Solutions+ countries/ cities projects

Africa

Madagascar	GEF
Burundi	GEF
Sierra Leone	GEF
Seychelles	GEF
Cote d'Ivoire	GEF
Togo	GEF
Kigali, Rwanda	EC
Casablanca, Morocco	EC
Dar es Salaam, Tanzania	EC

Asia & Pacific

India	GEF
Maldives	GEF
Hanoi, Vietnam	EC
Pasig, Philippines	EC
Kathmandu, Nepal	EC
Zhuzhou, China	EC
Thimpu, Bhutan	EC
Kochi, India	EC

CEE

Ukraine	GEF
Armenia	GEF
Uzbekistan	GEF

Latin America & Caribbean

Antigua & Barbuda	GEF
Chile	GEF
Costa Rica	GEF
Peru	GEF
Jamaica	GEF
St Lucia	GEF
Quito, Ecuador	EC
Santiago, Chile	EC
Montevideo, Uruguay	EC
Belo Horizonte, Brazil	EC

Western Europe

Madrid, Spain	EC

(+ More projects under development)

IV – Developing a new UNEP Global Electric Mobility Programme

Developing a new UNEP Global Electric Mobility Programme

- **Country & city support projects – 40 (UNEP) + 17 (GEF7) +13 (EC) + More**
- **Regional Platforms – UNEP to lead Africa, support LAC (CMMCh), Asia - ADB**
- **Global Working Groups – IEA to lead LDV & Infrastructure, UNEP to lead HDV**
- **Public – Private Partnership – EC partners + more**
- **Global Normative work – Global network and targets**
- **Aviation and Marine work**

Thank You

Rob de Jong, UN Environment
rob.jong@un.org

UN environment