



# Wider context of fuel economy: GFEI in the global and regional arena

IEA Energy Efficiency Training Week and  
GFEI Global Partners Meeting  
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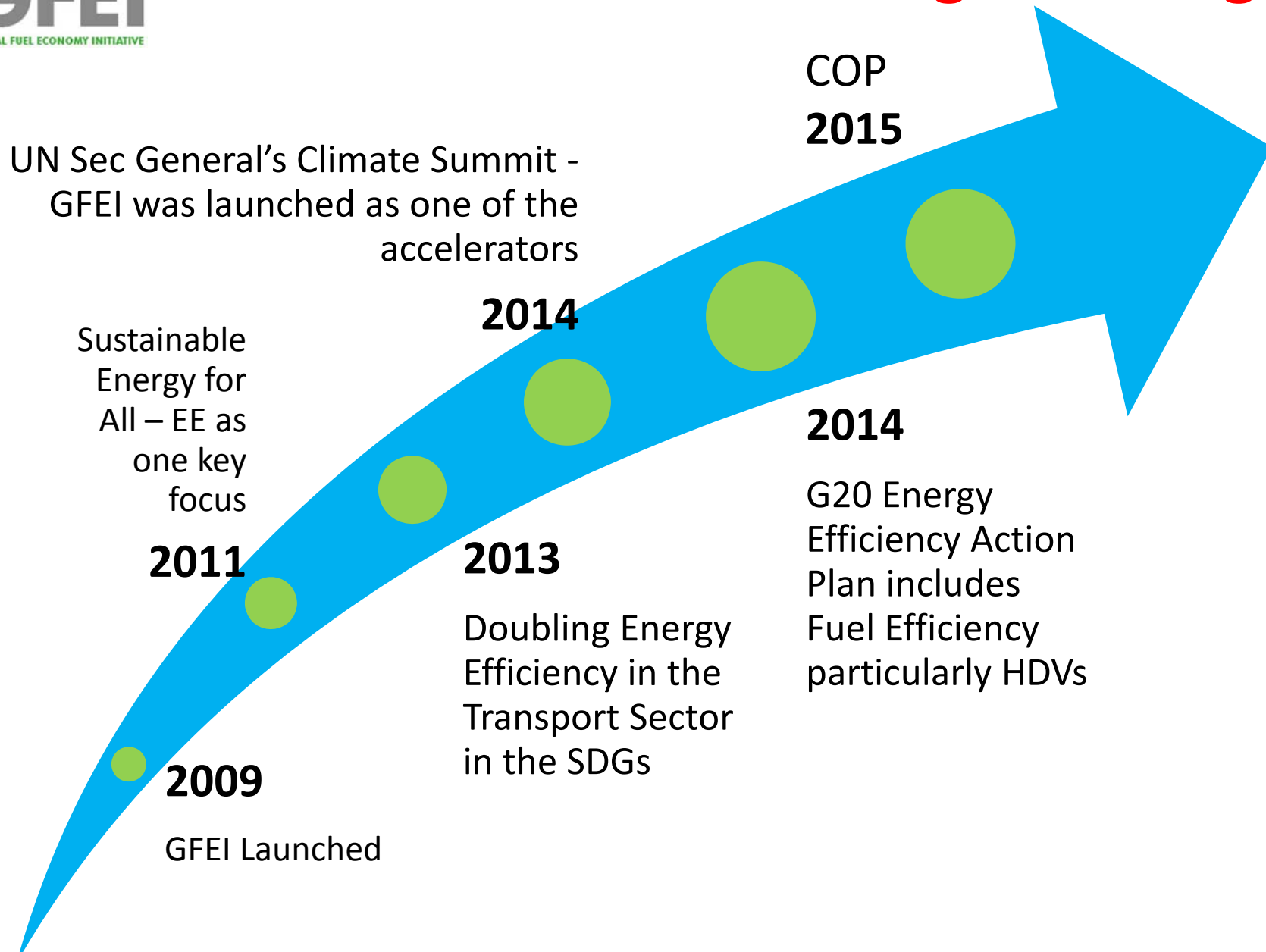
# UNEP and Transport

- Share the Road (StR) – promote and develop non-motorized transport policies
- Global Fuel Economy Initiative (GFEI) – double vehicle fuel efficiency by 2050
- Partnership for Clean Fuels and Vehicles (PCFV) – reduce emissions from light-duty vehicles
- Clean Ports – reduce emissions from port activities
- Reducing Emissions from Heavy-Duty Vehicles
- Africa Sustainable Transport Forum – develop and adopt action plan in Africa for sustainable and low emissions transport





# GFEI at the global stage





## Sustainable Energy for All

- In September 2011, UN Secretary-General Ban Ki-moon launched the Sustainable Energy for All initiative and shared his vision for how governments, business and civil society, working in partnership, can make sustainable energy for all a reality by 2030
- In September 2014, at the UN Climate Summit, GFEI was launched as one of the Energy Efficiency Accelerators





# Energy Efficiency in the Sustainable Development Goals

Rural Access

Road Safety

Urban Access Target

Air Pollution and Human Health

National Access and Regional Connectivity

GHG Emissions

**Proposed goal 2.** End hunger, achieve food security and improved nutrition, and promote sustainable agriculture

**Proposed goal 3.** Ensure healthy lives and promote well-being for all at all ages

**Proposed goal 7.** Ensure access to affordable, reliable, sustainable and modern energy for all

**Proposed Goal 9:** Built resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

**Proposed goal 11.** Make cities and human settlements inclusive, safe, resilient and sustainable

**Proposed goal 12.** Ensure sustainable consumption and production patterns

**Proposed goal 13.** Take urgent action to combat climate change and its impacts



## Transport-Related Commitments @



### Transport Action Area



#### ***The UIC Low Carbon Sustainable Rail Transport Challenge***

Improved rail sector efficiency, decarbonization of rail sector energy consumption and modal shift to rail for passenger and freight transport



#### ***UITP Declaration on Climate Leadership***

UITP members to take action to support UITP's goal to double public transport's worldwide market share by 2025



#### ***Urban Electric Mobility Vehicles Initiative***

Increase the share of electrical vehicles to least 30% of new vehicles by 2030 to achieve a 30% reduction of CO<sub>2</sub> emissions in urban areas by 2050

### Energy Action Area



#### ***Global Fuel Economy Initiative***

Public-private partnership to double light duty vehicle efficiency

### Industry Action Area



#### ***Global Green Freight Action Plan***

Expand and harmonize green freight programs that will generate reductions in black carbon and CO<sub>2</sub> emissions



## G20 Energy Efficiency Action Plan

- “Improving energy efficiency is a cost-effective way to help address the rising demands of sustainable growth and development, as well as energy access and security. It reduces costs for businesses and households. We have agreed an Action Plan for Voluntary Collaboration on Energy Efficiency, including new work on the efficiency and emissions performance of vehicles, particularly heavy duty vehicles...”
- “consider strengthening support for and participation in the Global Fuel Economy Initiative (GFEI)....the G20 may also consider further GFEI’s overall aim of improving fuel efficiency by 50 per cent by 2050.”





# GFEI complements other work

## Air pollutants affecting human health

- NO<sub>x</sub>
- Non-methane hydrocarbons
- Particulate matter
- Carbon monoxide
- SO<sub>x</sub>
- Toxic emissions (e.g. benzene)
- Heavy metals

**Fuel quality / tailpipe controls**

## Air pollutants affecting the climate

- CO<sub>2</sub>

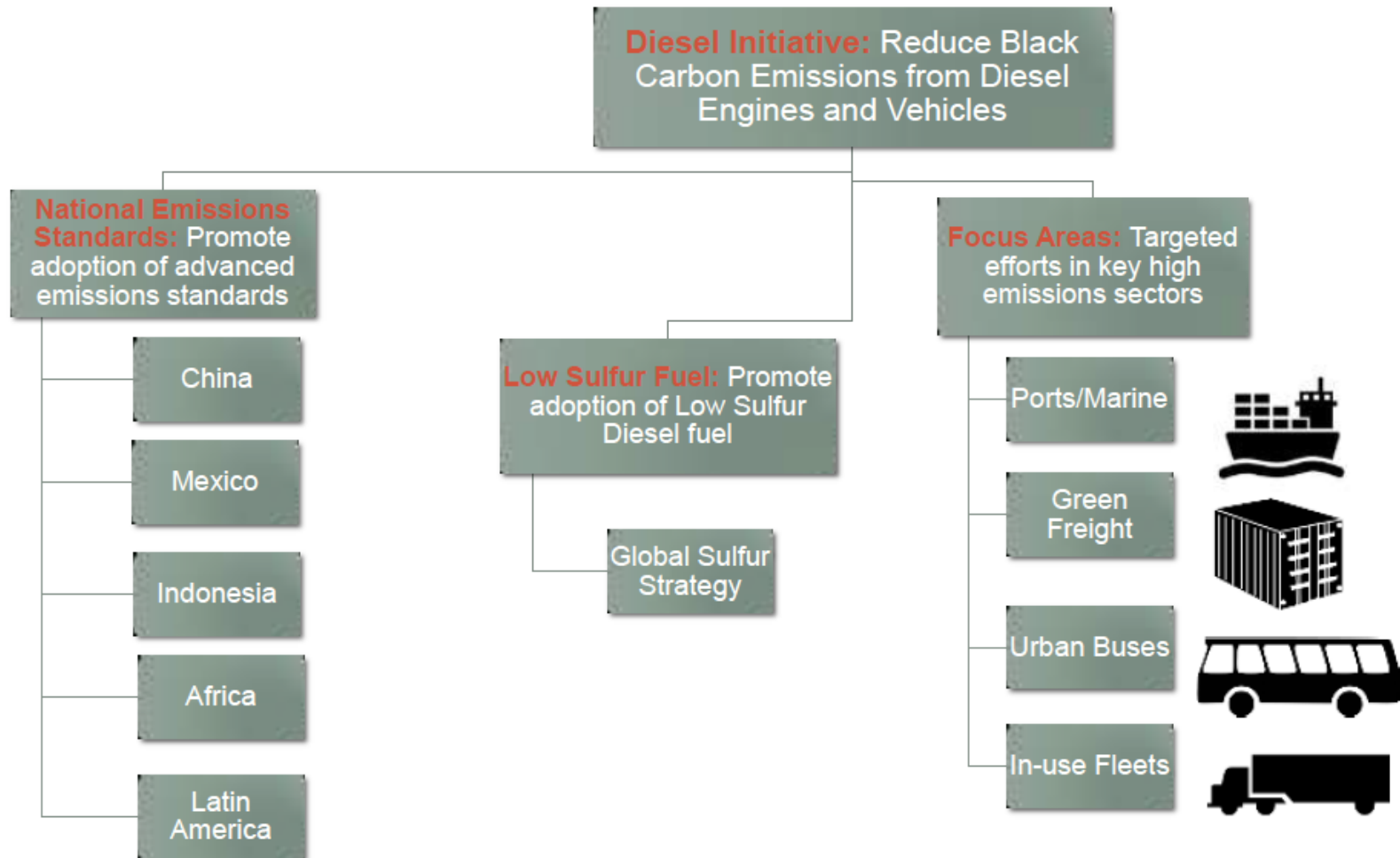
**Fuel economy improvement**





CLIMATE AND CLEAN AIR COALITION  
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS

# Diesel Initiative Projects





## Partnership for Clean Fuels and Vehicles

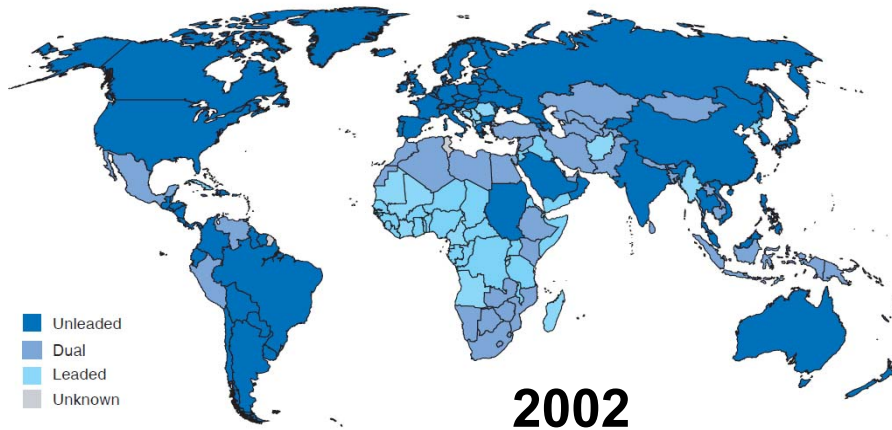
- Was set up at the WSSD in Johannesburg, Sept 2002 and re-launched in Oct 2012 in London
- Main objective is to address urban air quality in developing & transition countries by promoting clean fuels and vehicles standards/technologies
- Comprises over 73 partners from governments, oil and vehicle industry (including PIEA), international organizations and civil society
- Secretariat based in UNEP Headquarters in Nairobi, Kenya
- Current focus on introduction of low sulphur fuels and light duty vehicles emissions standards



# Progress towards cleaner fuels



Leaded Petrol Phase-Out: Global Status

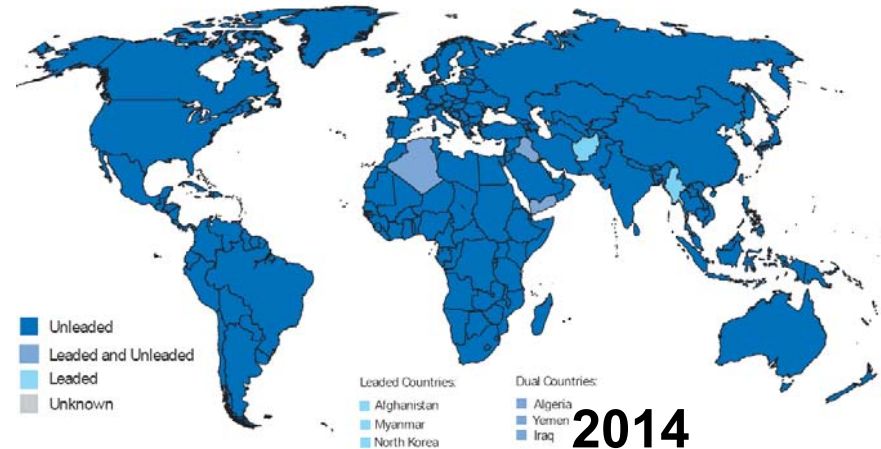


Status as of End 2002

2002



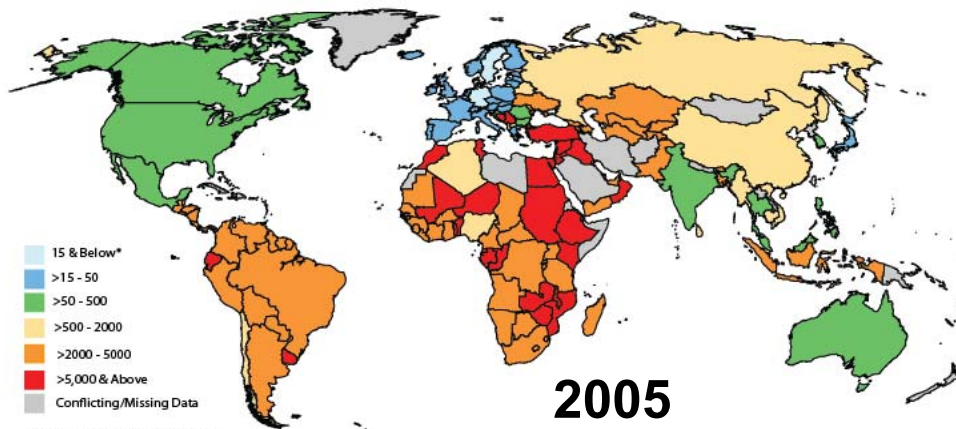
Leaded Petrol Phase-out: Global Status April 2014



2014



Diesel Fuel Sulphur Levels: Global Status 2005

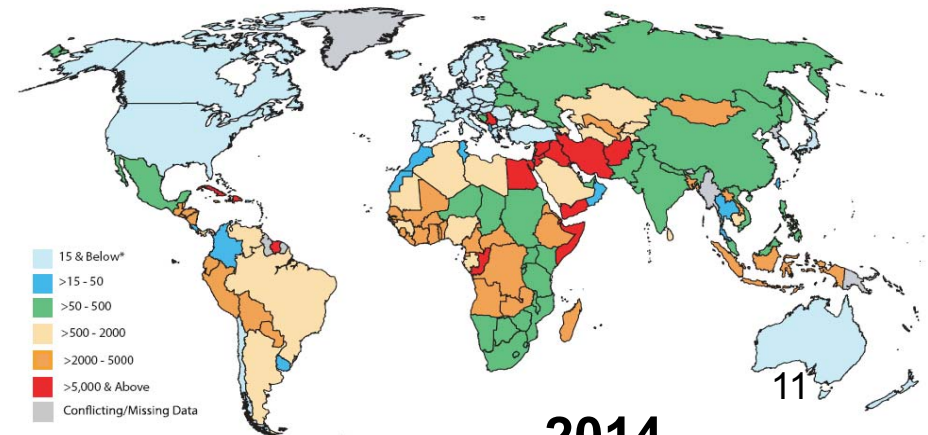


\* Information in parts per million (ppm)

2005



Diesel Fuel Sulphur Levels: Global Status April 2014

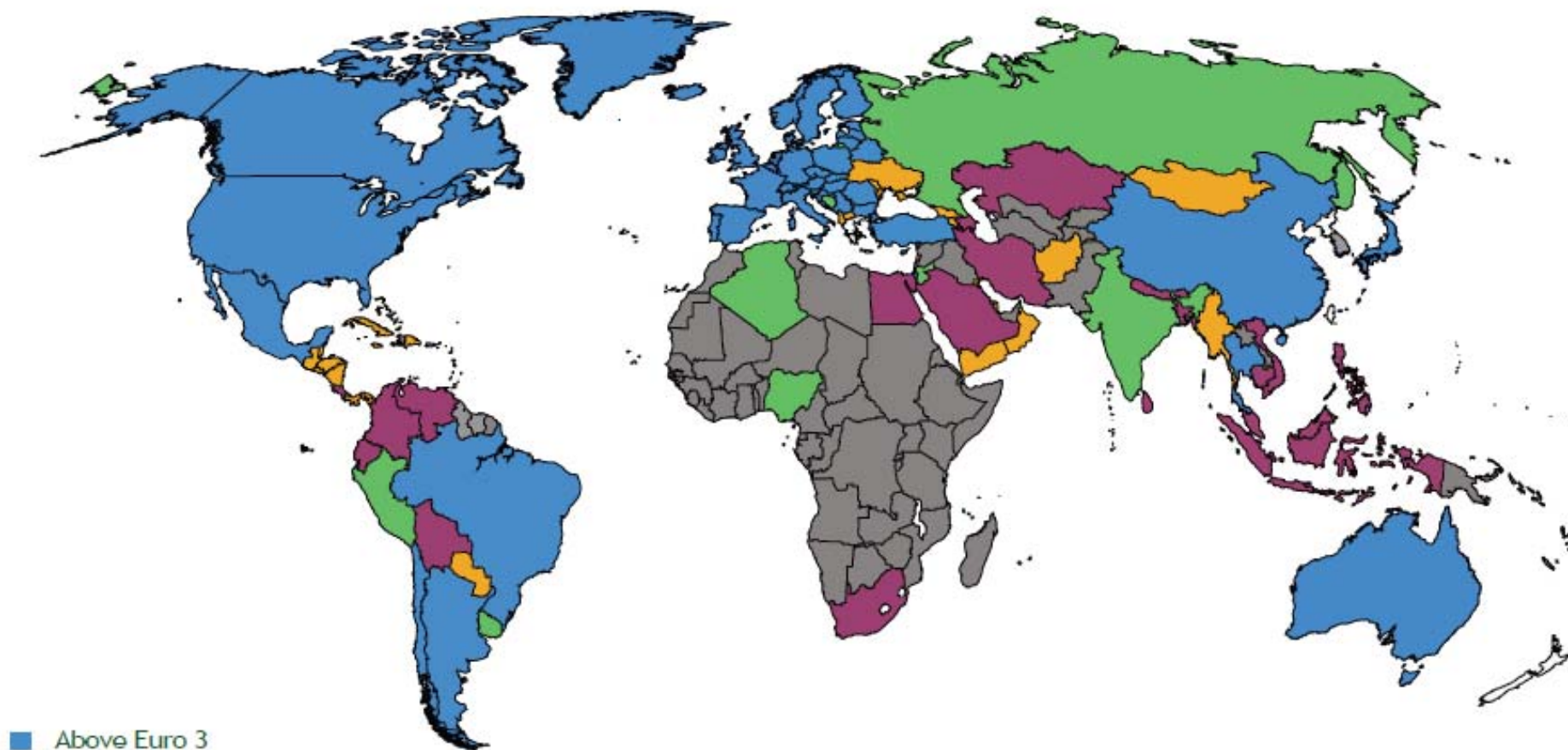


\* Information in parts per million (ppm)  
For additional details and comments per country, visit [www.unep.org/transport/pcf/](http://www.unep.org/transport/pcf/)

2014



# Vehicle Emissions Standards - January 2015



- Above Euro 3
- Euro 3
- Below Euro 3
- No Policy
- Unknown



## GFEI in Regional Initiatives

- Development of Fuel Economy Policy Pathways for the ASEAN Region as part of the ASEAN Energy Efficiency and Conservation Working Group, in cooperation with GIZ and Clean Air Asia
- Fuel Economy Labeling in the Asia-Pacific – led by the Asia-Pacific Economic Conference



**Thank you!!!**  
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