



Experience of African Countries in Developing Fuel Economy Baselines and Trends:

EGYPT

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Center for Environment and Development for the Arab Region and Europe (CEDARE)

AFRICA CLEAN MOBILITY WEEK

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CEDARE's current activities in SUSTAINABLE TRANSPORT

GFEI



PCFV



PARTNERSHIP FOR CLEAN FUELS AND VEHICLES

Promoting Better Air Quality in Cities

PHAROS



Ministry of Communications and Information Technology

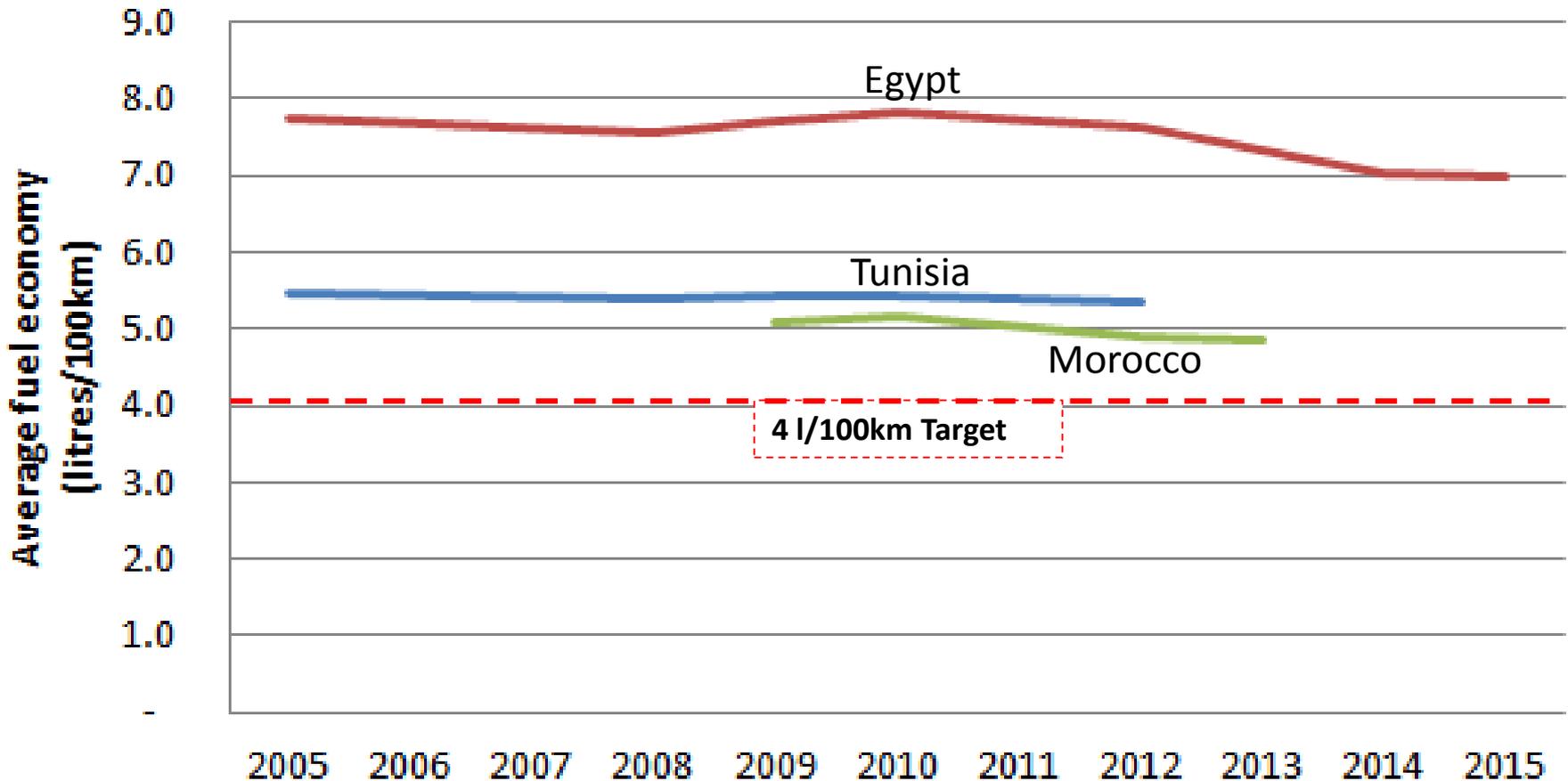


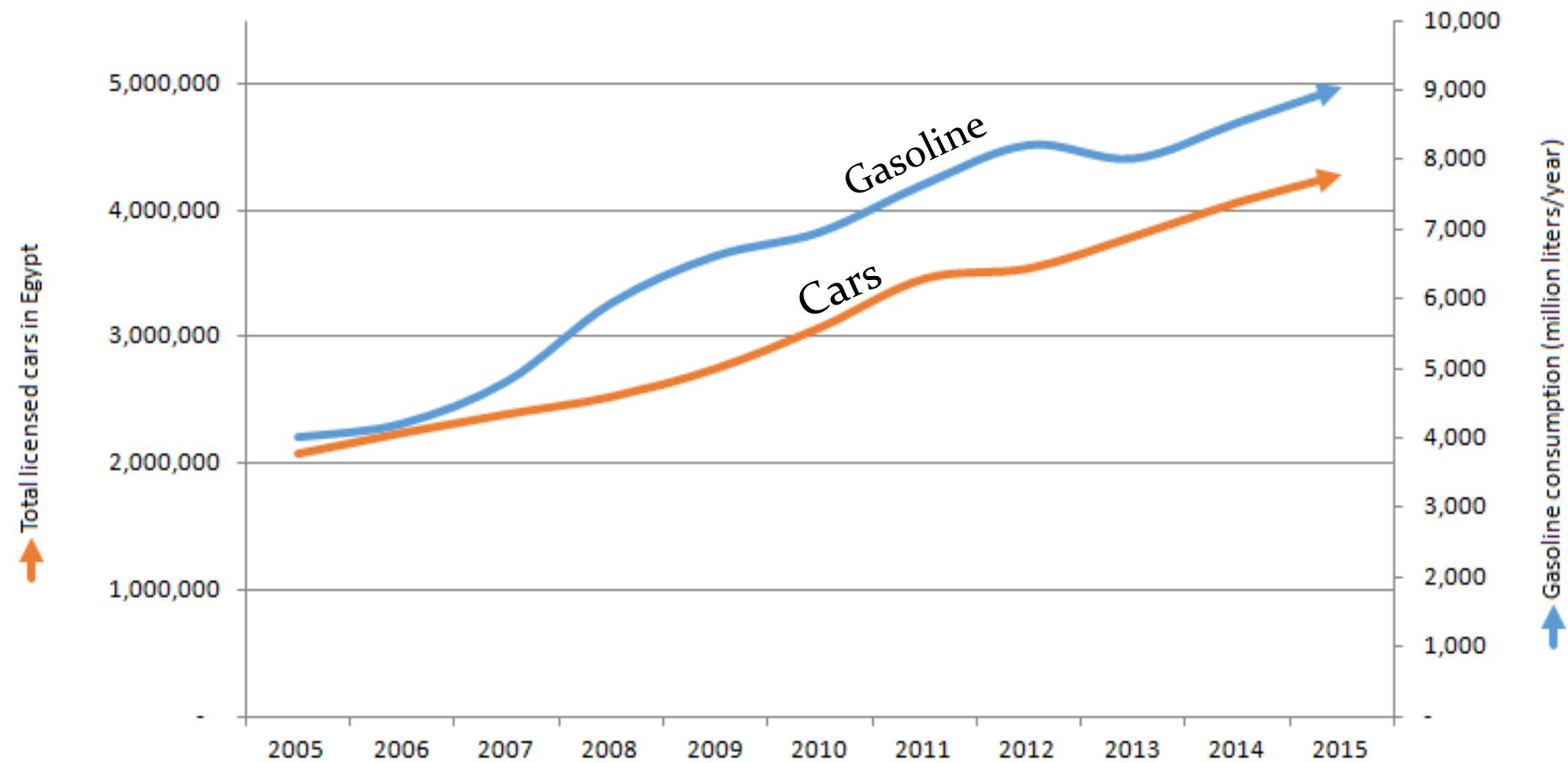
E-mobility



... *future prospects: e-mobility, replacement schemes, modal shift, capacity building & awareness, policy development ...*

Baseline study results: Average fuel economy (l/100km) of new Light Duty Vehicles

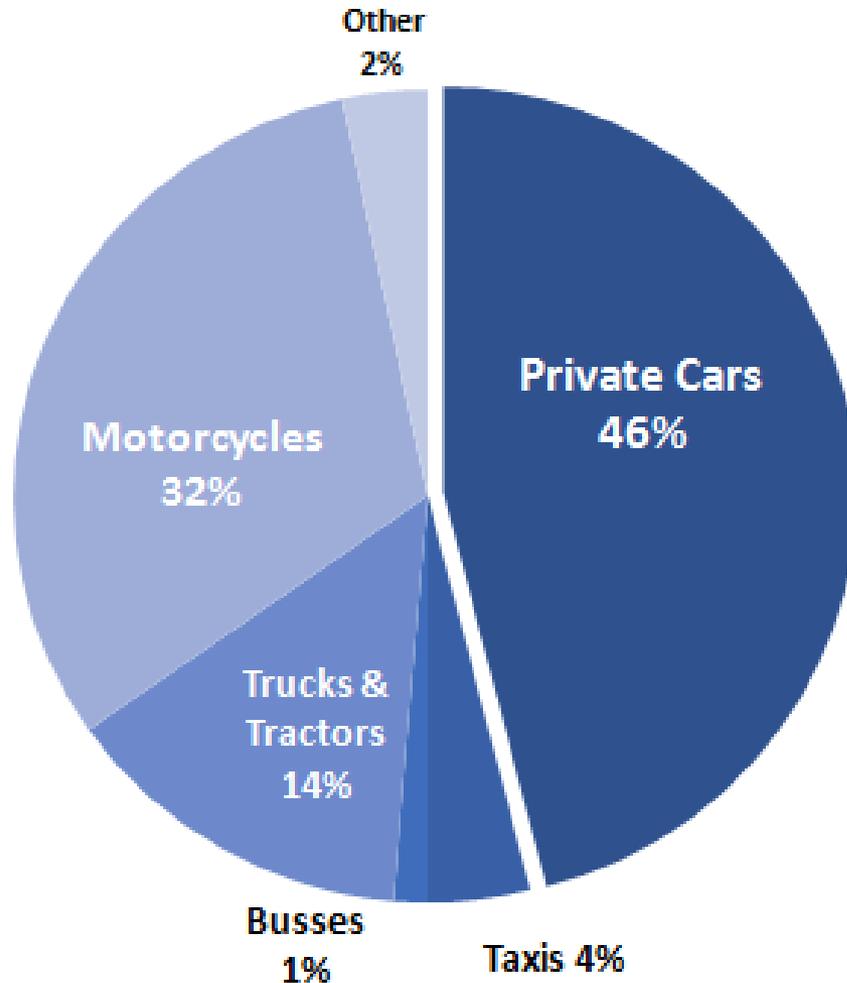






Where does this fall within
national priorities?

Licensed vehicles in Egypt in 2017



~9.3 Million vehicles

~45 cars/1000 inhab.

Growing local (partial) production

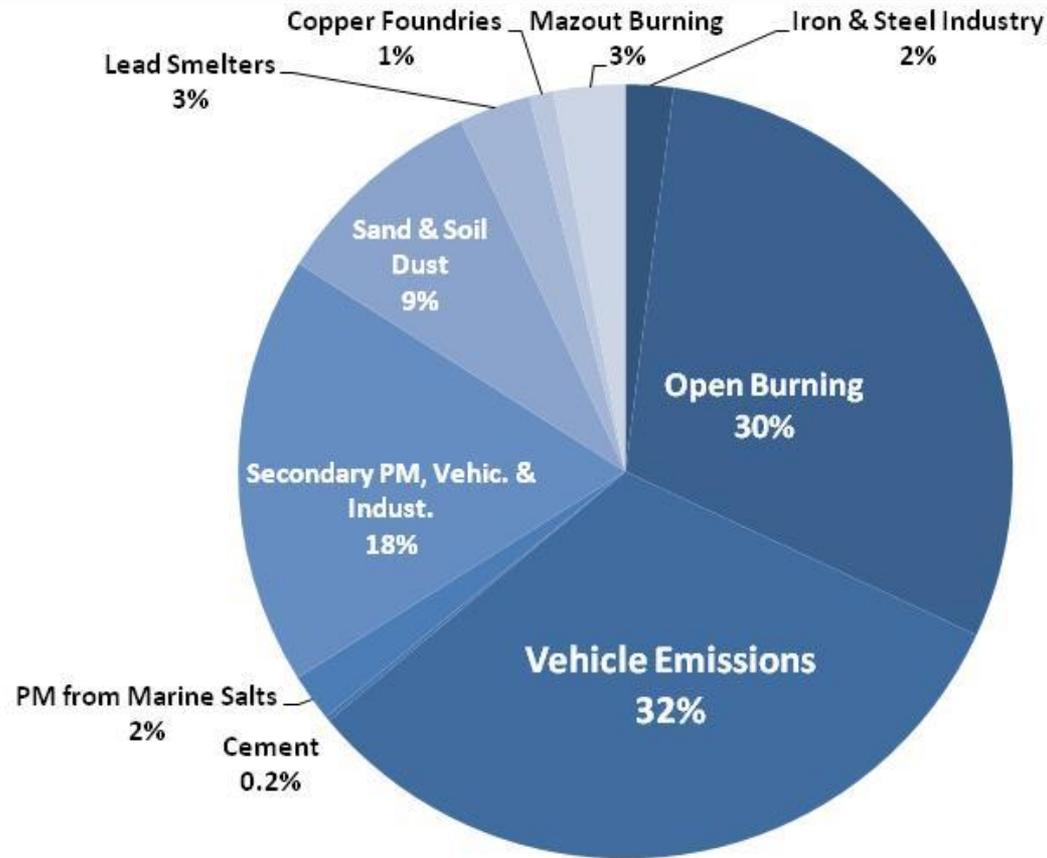
Aging stock / EXTENDED life

20-yr limit on public-trnsp. vehicles there, but difficult to really enforce!

New traffic law in the parliament = opportunity for technical assistance in the subsequent executive regulations.

Local Pollution:

Source-attribution of PM₁₀ air pollution in Cairo dominated by vehicle emissions

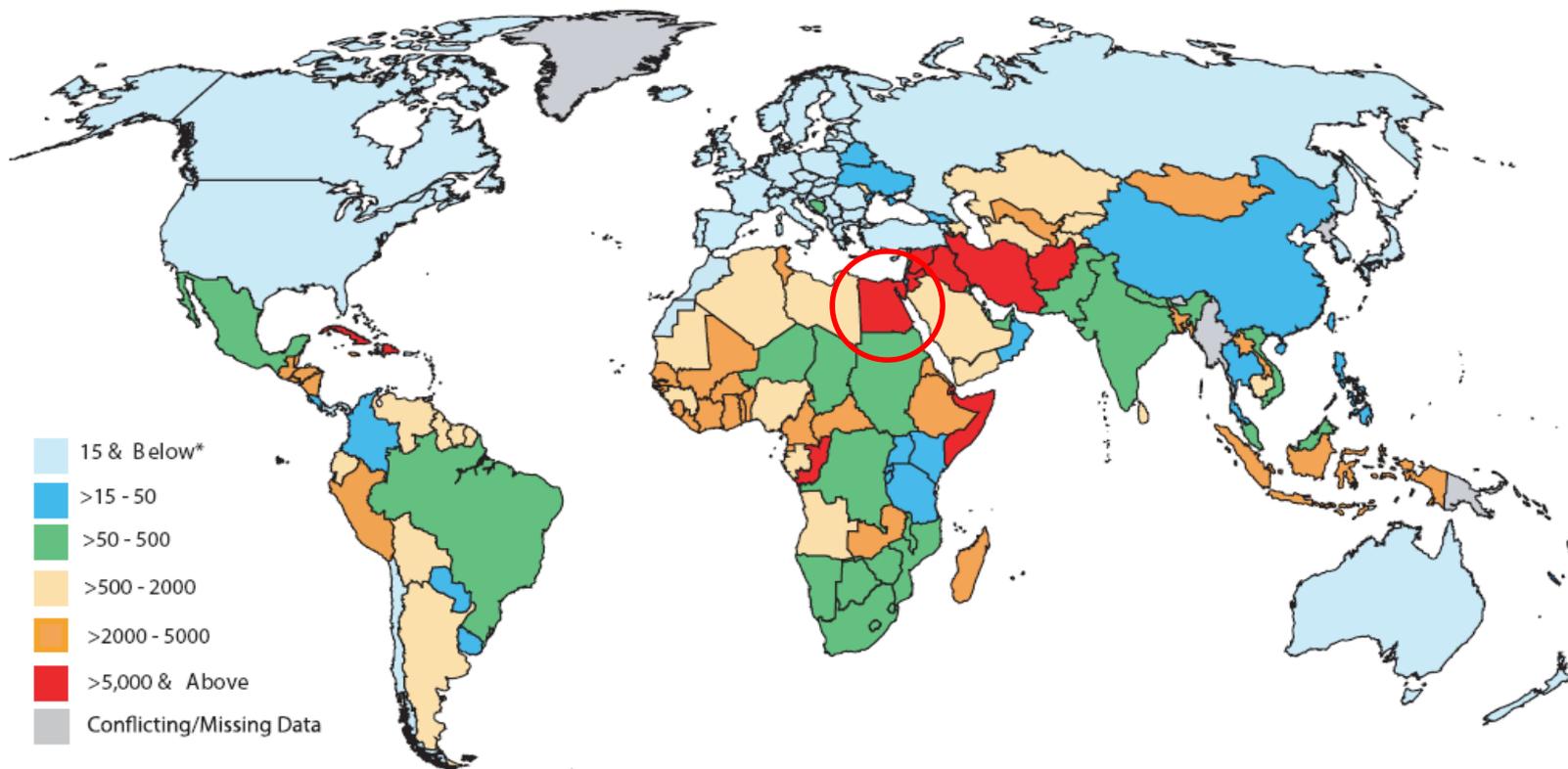


(CAIP, 2004, edited)

Diesel in heavy duty vehicles

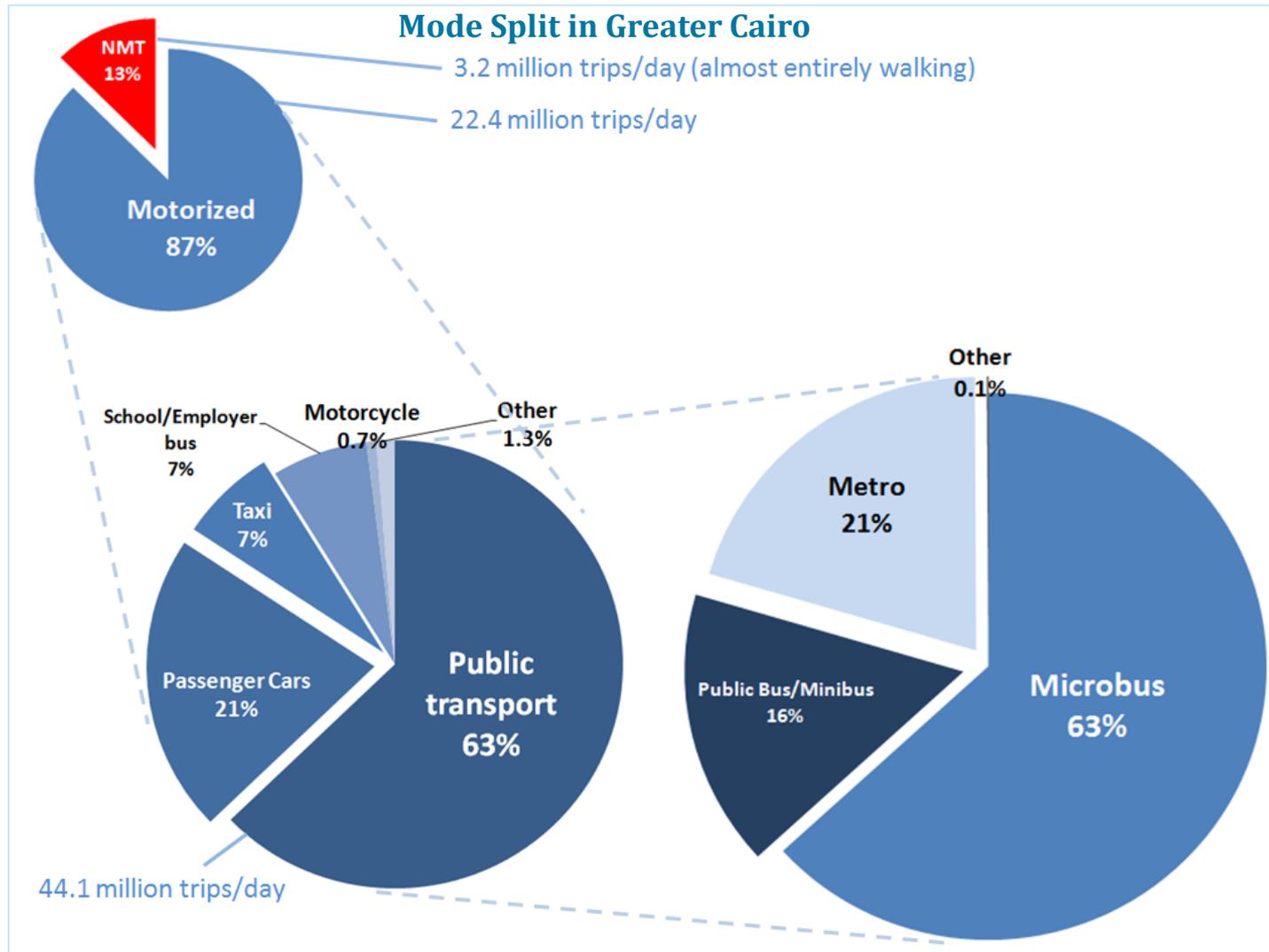


Diesel Fuel Sulphur Levels: Global Status
December 2016



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

Social impact



Cultural heritage, sensitive ecosystems, tourism, and other concerns...



Air pollution among the drivers of the historical 2006 relocation of Ramses II

Growing interest in E-mobility

Case study of Alexandria Passenger Transport Authority

Planning

- Since 2016 APTA had been planning sustainable mobility plans; highlights included the upgrade of existing tramline system, rehabilitating the rolling stock that was burnt down during the 2011 revolution (with local capacity and resources), and introducing full-electric buses.
- A plan and proposal was submitted to the Ministry of Planning for discussion and approval.

Tendering

- For the electric buses, a local tender was first conducted to prioritize potential local suppliers (as per national regulations), and it was confirmed that local supply is not available.
- An international tender was then conducted throughout 2017, for which 7 companies applied out of 17 companies invited.

Launching

- The tender was successfully awarded; an agreement was signed on January 2018 with BYD for 15 low-cost 12-meter K9 pure electric buses and 18 charging poles.
- The first (trial) bus is scheduled to come into operation in June 2018 for evaluation and approval before subsequent supply of the rest of the fleet later in 2018. The fleet shall be the first of its kind in Egypt.

Prospects

- Evaluation of experience with electric buses and expansion of fleets and infrastructure, including exploration of possibility of retrofitting old buses and/or enhancing partial local production.
- Exploration of possibilities for integrating solar power (including feed-in), improving local capacity for upgrading the tram system and rolling stock, developing an integrated ticketing system for formal public transport. For the latter, an MoU is already signed for international development assistance and private sector partnership to study and help develop intermodal integration .



Thank you...