The Real Urban Emissions Initiative (TRUE)

PCFV – Paris, March 5-6th 2019

Sheila Watson,
Deputy-Director, FIA Foundation
Dieselgate

In May 2014, the ICCT exposed that two VW U.S. diesel cars tested in real world conditions exceeded Nox standards by 5x - 35x.

Culminated in civil and criminal penalties of more than $20 billion.

FIA Foundation hosted seminar of leading experts in 2016 – concluded ‘independent checks and data’ were essential
Problems throughout the global diesel fleet
Diesel emission reductions never delivered

Source: http://eupocketbook.theicct.org
Air pollution is single greatest environmental health risk, accounting for one in eight deaths globally

New study quantifies the global health impacts of vehicle exhaust linking ambient PM$_{2.5}$ and ozone specifically caused by vehicle exhaust emissions to $\sim$361,000 premature deaths worldwide in 2010 and $\sim$385,000 in 2015.

On-road diesel vehicles were responsible for nearly half of the health impacts of air pollution from vehicles worldwide in 2015, and two-thirds of impacts in India, France, Germany, and Italy.
Air pollution from transportation sector is a leading cause of premature mortality in European cities.

- The top 10 in order for 2015 were Guangzhou, Tokyo, Shanghai, Mexico City, Cairo, New Delhi, Moscow, Beijing, London, and Los Angeles.

- By contrast, when normalized by population, the urban areas with the highest number of transportation-attributable air pollution deaths per 100,000 people were mainly in Europe.

- When considered from this perspective, the top 10 in order for 2015 were Milan, Turin, Stuttgart, Kiev, Cologne, Haarlem, Berlin, Rotterdam, London, and Leeds.
Ella Kissi-Debrah – died aged 9 from asthma

Science & Environment

Illegal levels of air pollution linked to child's death

By Claire Marshall
BBC Environment Correspondent

3 July 2018
The Real Urban Emissions Initiative (TRUE)

TRUE seeks to supply cities with data regarding the real-world emissions of their vehicle fleets and equip them with technical information that can be used for strategic decision making.
TRUE Objectives:

• To promote real world testing equipment and techniques
• To build and maintain the global database for real world emissions
• To regularly publish the results of real world emissions information and support data transparency
• To work with cities to support actions to lower emissions from vehicles and to accelerate the transition to zero emission vehicles
• To support good consumer choices
• To promote corporate responsibility, and good government practices around vehicle emissions and policies.
March 2017 – Paris & London launch partnership with TRUE

Paris and London mayors announce scheme to gauge car emissions

London Mayor Sadiq Khan (L) and Paris Mayor Anne Hidalgo attend a meeting on air pollution in Paris, France, March 29, 2017. REUTERS/Gonzalo Fuentes

Sources: Reuters, Kodjak
Remote sensing allows measuring the real-world emissions of thousands of vehicles

TRUE testing in London & Paris – 2018
• Three-colour system

• Green – good - lowest available in-use emissions

• Red – poor - emissions are 3 times or more than the latest emission limits.

• Informative for consumers, policymakers and manufacturers

• First results launched June 6th 2018.
NOx emissions are systematically much higher for diesel cars, even for the newest Euro 6 models.

All Euro 6 diesel models exceeded the Euro 6 diesel NOx emissions type-approval limits.

Four manufacturers’ Euro 6 diesel vehicles emitted more than 12 times the diesel type – approval limit for NOx, on average.

The highest emitting vehicle family has emissions 18 times above the Euro 6 type-approval limit.
London Case Study: NOx emissions from diesel-fueled London taxis compared with other London diesel passenger cars

- London diesel black taxis produce higher NOx emissions than diesel passenger cars covered by the same emissions standard.
- Euro 5 taxis were the highest emitters.
- Remote sensing results are consistent with laboratory testing conducted by Transport for London.
London case study: real policy impact

Mayor Sadiq Khan has announced new plans based on the study

“We know that dirty vehicles are responsible for half of our NOx air pollution – and this new data from TRUE and ICCT reveals the stark health impact of polluting diesel taxis on our streets.”

New measures proposed by the Mayor and TfL:

- An enhanced delicensing fund, providing up to £10,000 for drivers who trade in their older, dirtier vehicles early
- A £2.5M fund to help drivers of newer Euro 5 taxis to convert to much cleaner LPG fuel
- A consultation early next year on a phased reduction in maximum taxi age limits for the dirtiest vehicles from 15 years to 12 years by 2022
NOx emissions from London buses have improved

- NOx emissions from London buses have decreased by 65% in the past 5 years.
- Euro VI diesel buses show significant improvement over buses certified to previous emission standards.
- Emissions performance in Euro VI buses varied somewhat by manufacturer.
All new diesel cars fail EU emissions standards, says study

Even worst-rated petrol vehicles fare better in real-world conditions, campaigners find

"Impossible-to-cheat" emissions tests show almost all new diesels still dirty

Other new research shows diesel vehicles cause 89% of the UK's annual damage to people's health from car and van exhaust in the UK

EU failed to clear diesel cars, report says

Death of Diesel - All new diesel cars fail emissions test, claims shocking study

A SHOCKING new study has revealed that the newest cleanest diesel vehicles fail to meet emissions standards for real-world driving conditions.

By Luke John Smith
09:32, Wed, Jun 6, 2018 | UPDATED 10:52, Wed, Jun 6, 2018
Pollution au NOx : même les diesels Euro 6 seraient très nocifs

Las pruebas que demuestran que los diésel Euro VI emiten cinco veces más óxidos de nitrógeno de lo permitido

Ultimul cui în coșciugul diesel? Studiul aproape toate motoarele diesel Euro depășesc limitele legale pentru emisii

Hâu hết xe dong co diesel duu o nhiem ket qua ngày tien cuu 374,000 xao my anh o chau Au debe vung trong canh kep, thuong cai hang khong con nghiem

Paris : un appareil révolutionnaire va traquer la pollution des voitures
2019 plans

• Signing up new cities NYC, Mexico City, Seoul, Brussels, Madrid, Warsaw…?
• TRUE Seminars eg with city of Brussels and POLIS – Feb
• GLA – Clean Car Checker
• TRUE City Network
• Outreach eg TRUE event a WHA
• Research outputs, eg Seminar report on Low Emission Zones, 2-wheelers...
• Paris data
• Resources from C40, FIA Foundation, Bloomberg and CA
THANK-YOU

www.trueinitiative.org