

LONDON'S AIR QUALITY PROGRAMME



Elliot Treharne
Head of Air Quality

7 June 2018

MAYOR OF LONDON

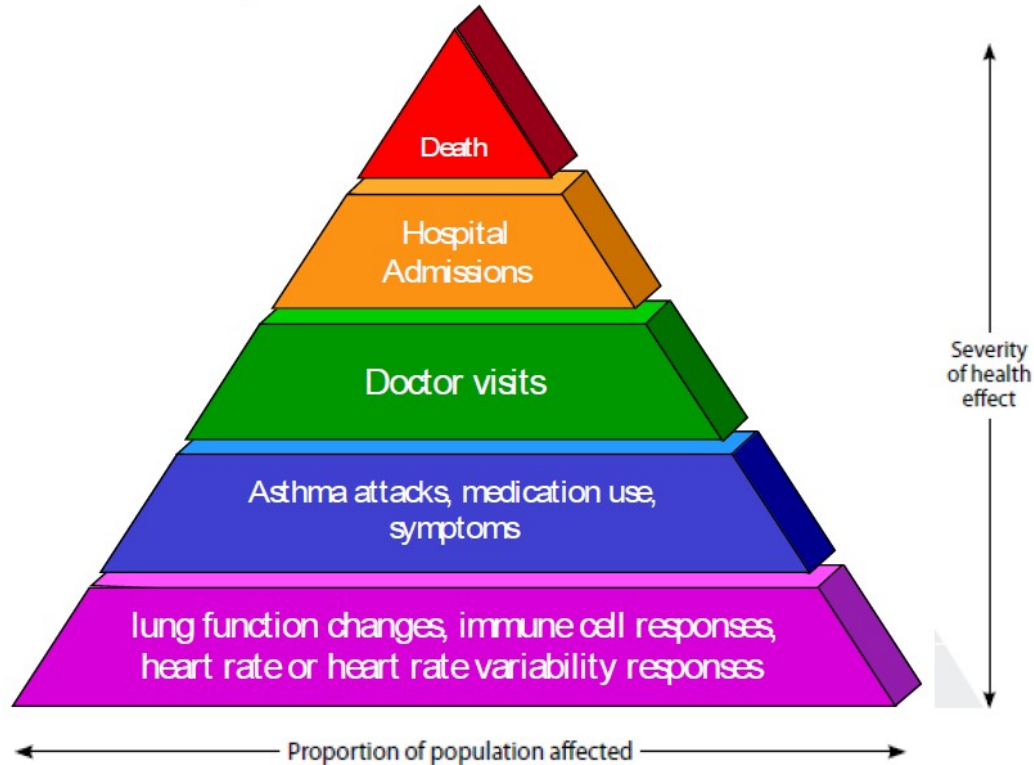


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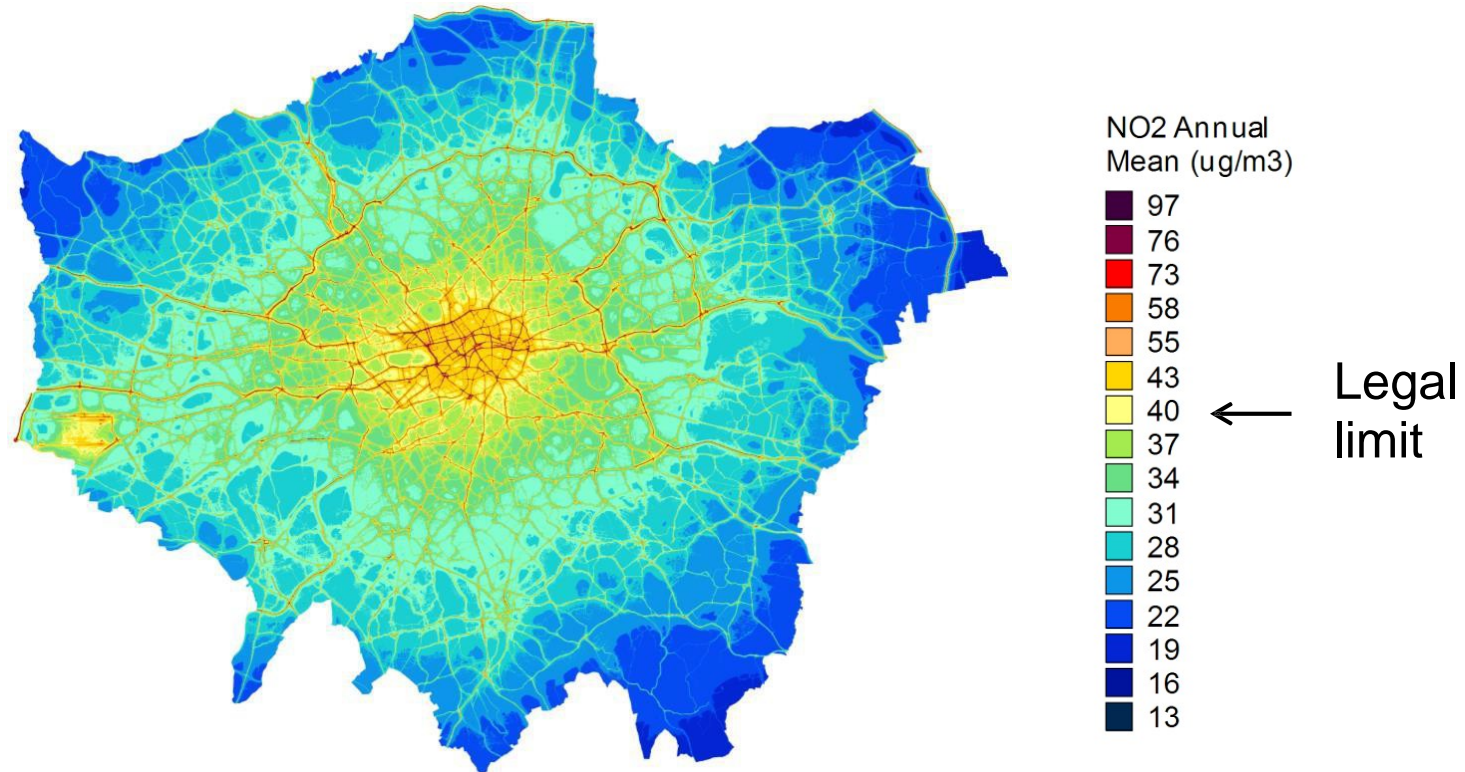


TODAY

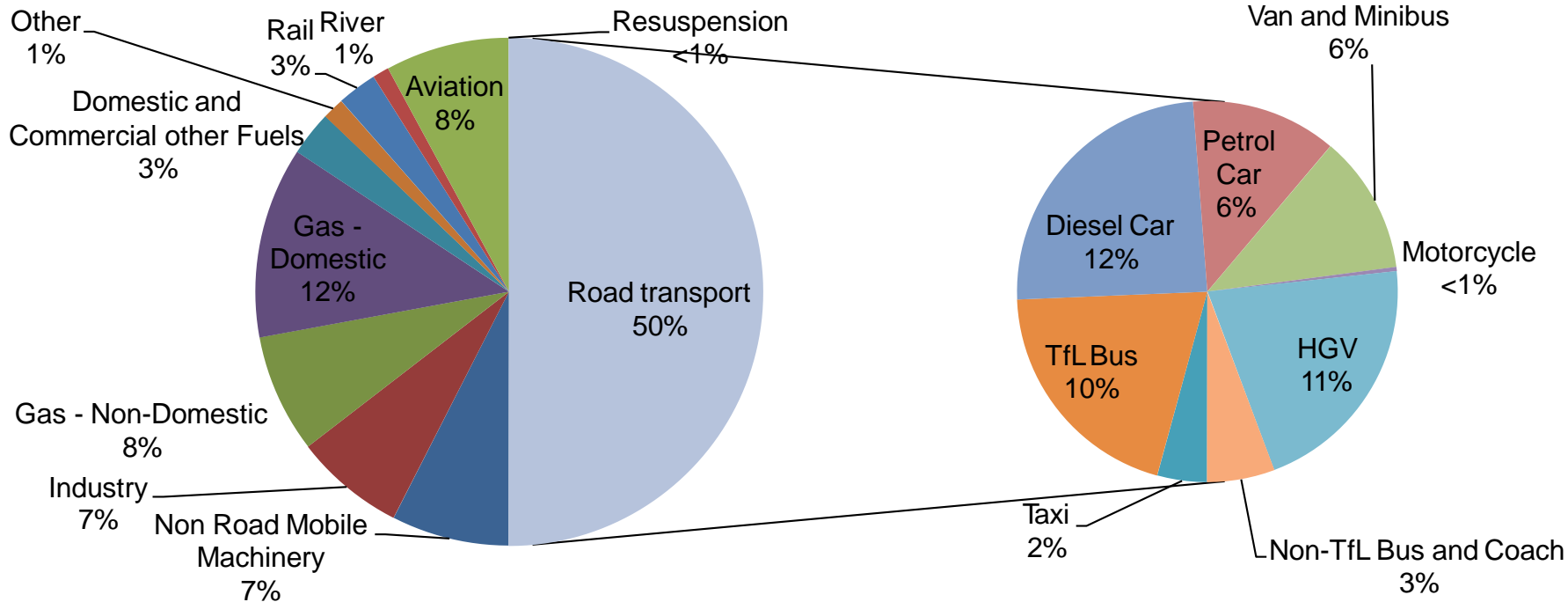
HEALTH AND EQUALITIES



NO₂ CHALLENGE (2013)



NO_x EMISSIONS (2013)



NO₂ – A EUROPE WIDE CHALLENGE

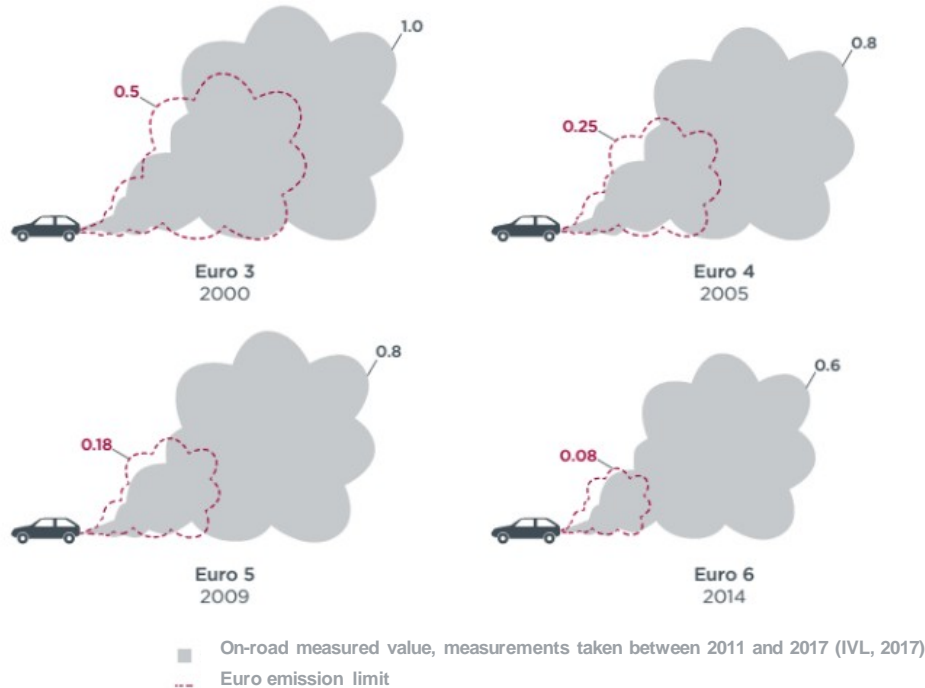
Nitrogen Dioxide (NO₂) in Europe

European Environment Agency



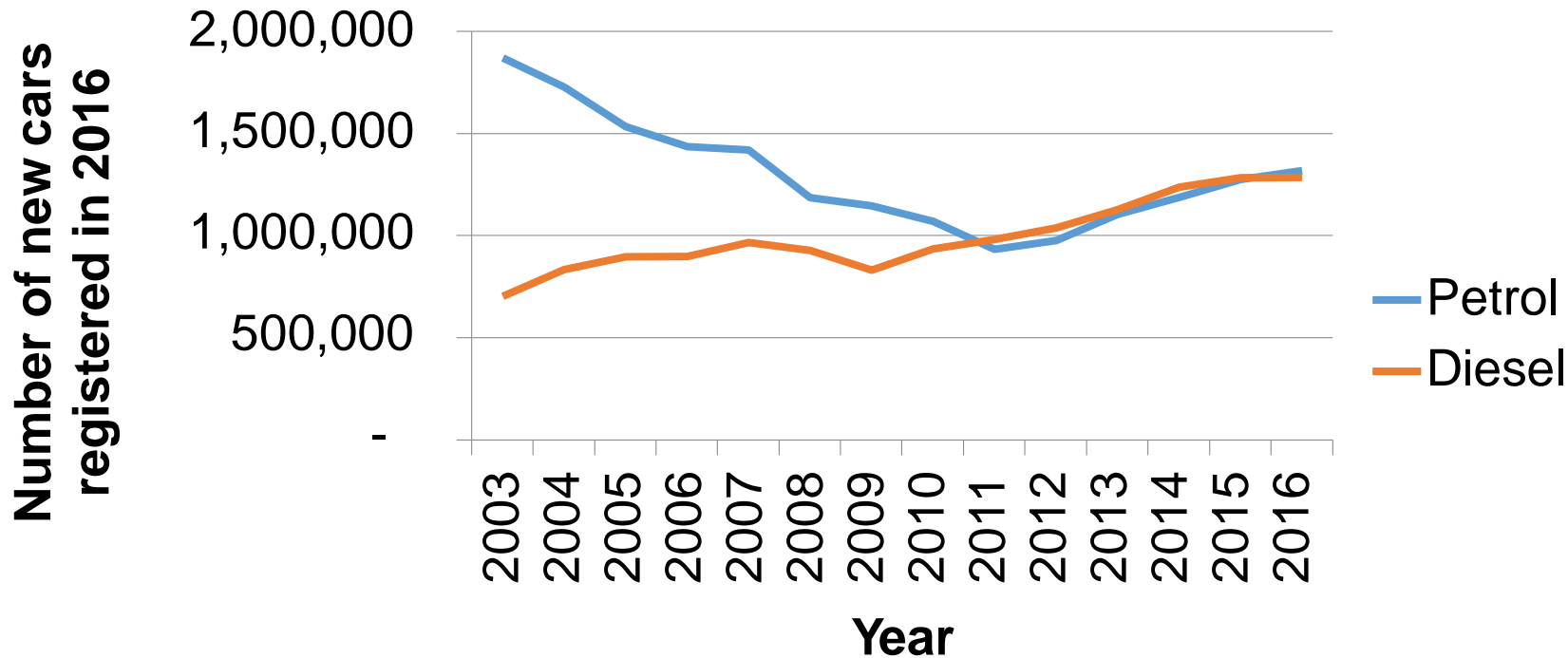
DIESEL PERFORMANCE

Diesel cars: Nitrogen oxides (NO_x) emissions (in g/km)



Source: ICCT

DIESELISATION



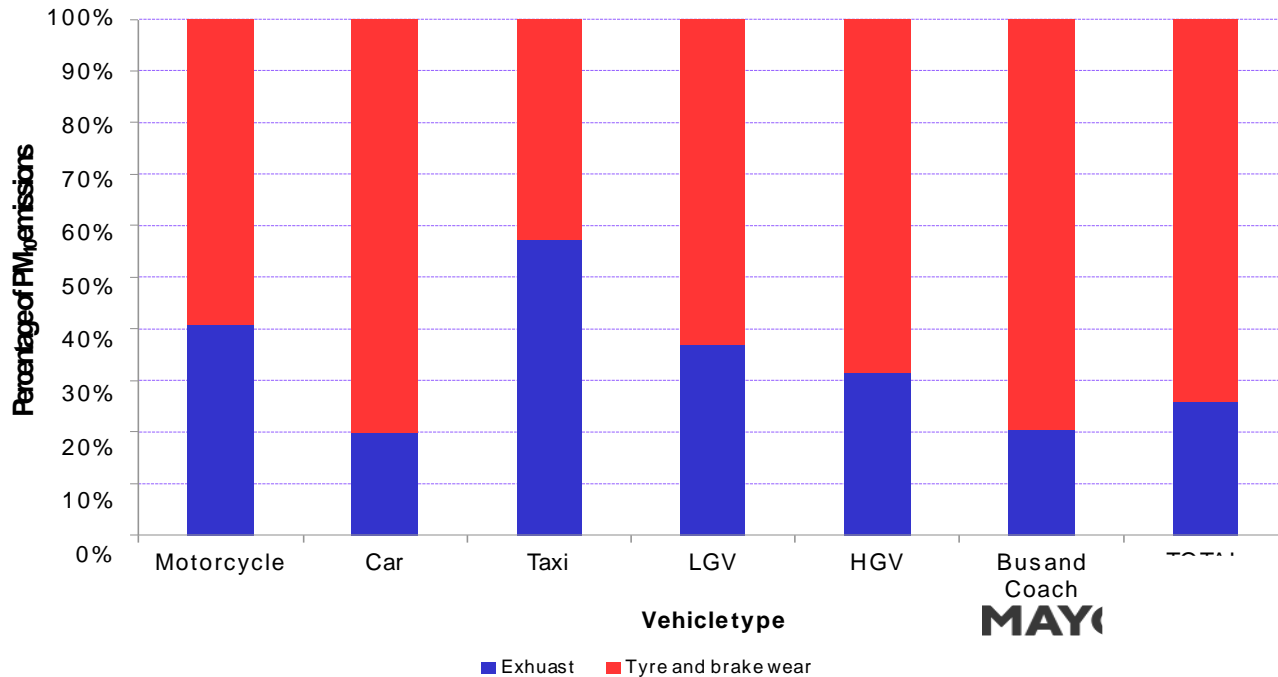
Source: SMMT

PARTICULATE MATTER

- London had a 'very high' pollution episode in January, which meant PM_{10} concentrations were roughly more than double the hourly legal EU limit.
- Whole of London is exposed to particulate matter ($PM_{2.5}$) levels that exceed safe limits set by the World Health Organisation.



PARTICULATE MATTER – NON-EXHAUST EMISSIONS



MAYORAL PRIORITY

- The Mayor held a consultation on a number of air quality measures within weeks of coming into office.

“One of the biggest tasks we have when formulating these new measures is looking at how we can deal with the problem of diesel vehicles...”



AIR QUALITY ALERTS

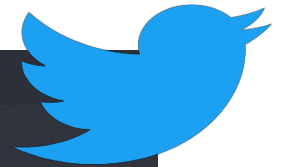


- During and on the day before high and very high air pollution days, air quality alerts will be displayed at:
 - **2, 500 bus countdown signs** and river pier signs.
 - **140 road signs**, with instructions to switch engines off when stationary to reduce emissions.
 - The entrance of **all 270 London Underground stations**.



Variable Message Sign
A13

AIR POLLUTION
HIGH 27/08 TURN
OFF YOUR ENGINE
IF STATIONARY.

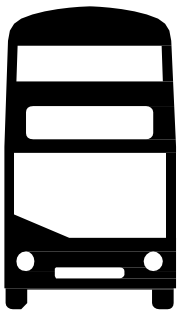


HEALTHY STREETS

- Car dependency has contributed to an increase in poor public health across our city.
- By 2041, the Mayor aims for:
 - 80 per cent of Londoners' trips to be on foot, by cycle or by using public transport (from 64%);
 - London's total traffic to have reduced by 10 -15%;
 - All deaths and serious injuries from road collisions to be eliminated.

10 Healthy Streets Indicators





New double decks have been hybrid, hydrogen or electric from this year; new single decks will be zero exhaust emission from 2020

Target: Zero emission bus fleet by 2037 *at the latest*

LOW EMISSION BUS ZONES

- Deploying the greenest buses on the capital's most polluted routes
- 12 zones by 2020
- Part of an improvement programme to 3,000 buses outside central London.
- Expected to reduce bus NOx emissions by around 84 per cent



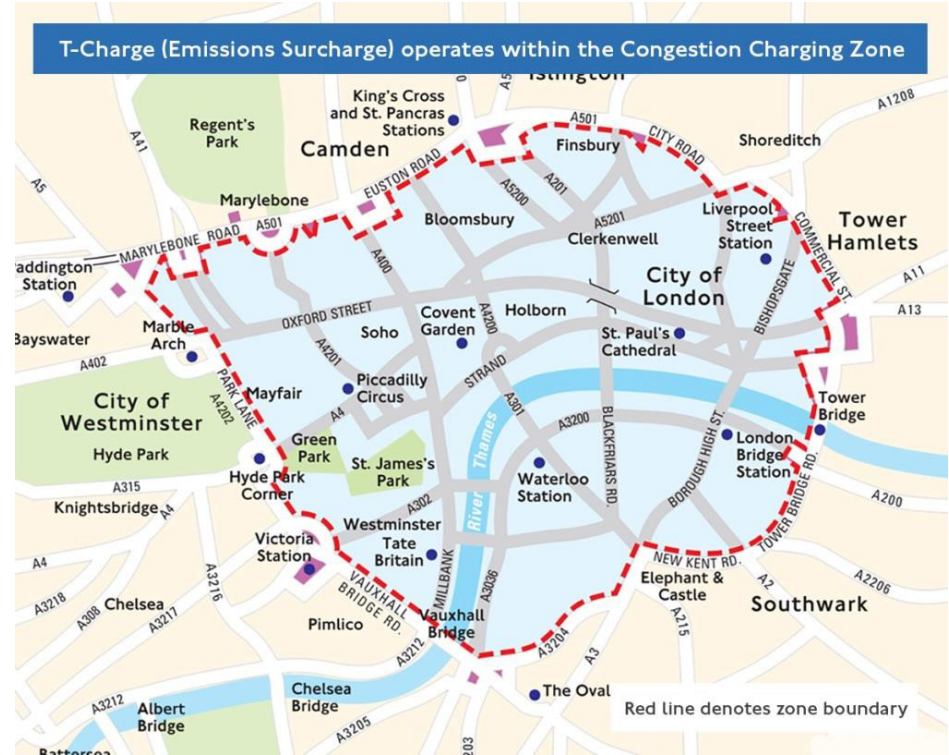


No more diesel taxis from 2018 and new taxis will need to be zero emission capable

Target: Zero emission capable taxi fleet by 2033 *at the latest*

EMISSIONS SURCHARGE

- An Emissions Surcharge started on 23 October 2017
 - £10 charge during Congestion Charge hours for older polluting vehicles
 - On top of existing £11. 50 congestion charge
 - For pre-Euro 4/VI – toughest standard of any world city.



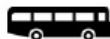
ULTRA LOW EMISSION ZONE



Central London ULEZ in 2019 (all vehicles)



£12.50 per day



£100 per day



London-wide ULEZ in 2020 (heavy vehicles)



Up to £100 per day



Inner London ULEZ in 2021 (all vehicles)



Up to £100 per day



Up to £12.50 per day

ULEZ standards

- Petrol: Euro 4
- Diesel: Euro 6
- Motorcycle and L-Cat: Euro 3

CLEANER VEHICLE CHECKER

- The scheme provides motorists with independent real -world NOx information

Tools	Newer Vehicle Checker (Euro 6) Cleaner Fleet Checker	Used Vehicle Checker (pre-Euro 6)
Data Source	EQUA Index – developed by Emissions Analytics	TRUE Rating - developed by TRUE Initiative

Testing Method	PEMS (Portable Emissions Measurement System)	Remote Sensing/ Roadside Emissions Measurements
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USED VEHICLE CHECKER

- GLA is working in partnership with the TRUE Initiative to develop a 'Used Vehicle Checker ' using the TRUE Rating.
- A remote sensing project in London completed in spring and the resulting data will be incorporated into the TRUE Rating later this year.
- The CVC currently provides real world emissions information on the latest Euro 6 models, but this will be expanded to inform those wishing to learn more about real-world emissions of older, pre-Euro 6 vehicles.



NEW TRANSPORT STRATEGY

- London's proposals will remove the dirtiest diesel vehicles before 2025.
- However, the Mayor wants a holistic approach and has set out an ambitious strategy to make London's transport network zero carbon by 2050.
 - Zero emission zones in town centres and central London from 2025;
 - All new cars and vans in London zero emission by 2030 at the latest.



A NEW STRATEGY FOR LONDON



MWS



CCMES



CCAS



MAQS



MANS



MBS



MWMS



MBWS

new Environment Strategy



A scenic view of London featuring the Tower Bridge, the London City Hall, and a public square with water fountains. The image is overlaid with a semi-transparent white rectangle containing text.

Thank you
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