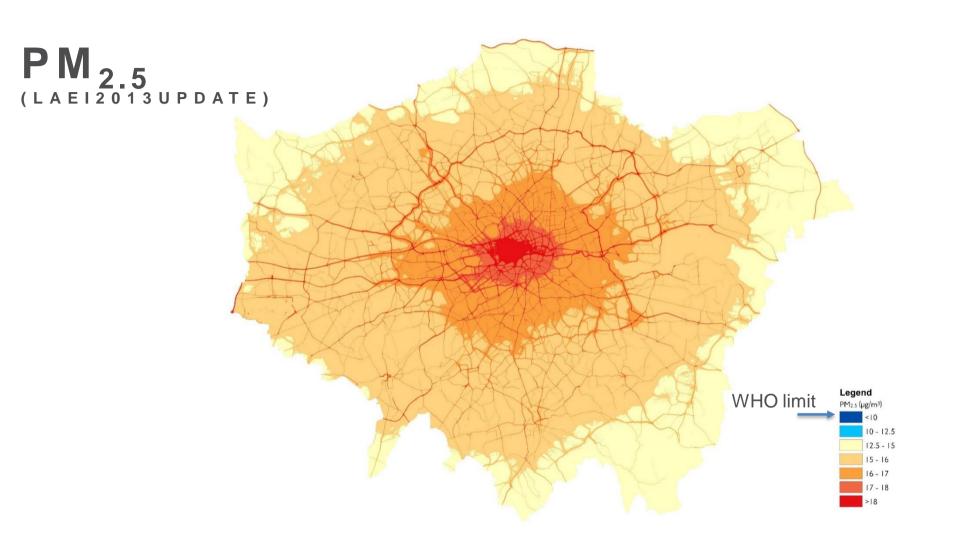


**MAYOR OF LONDON** 







# **NEW STRATEGIES**





MAYOR OF LONDON

#### THE LONDON PLAN

THE SPATIAL DEVELOPMENT
STRATEGY FOR GREATER LONDON
DRAFT FOR PUBLIC CONSULTATION

**DECEMBER 2017** 



# **NEW STRATEGIES**

#### MAYOR OF LONDON

#### London Environment Strategy:

- Focus on cross cutting policies
- Includes polices to ensure that reductions in climate change gas emissions, increased green space etc also benefit air quality



#### MAYOR OF LONDON

#### The London Plan:

THE

DRA

- Focus on the spatial policies needed to deliver London's ambitions.
- Key policies on "good growth" and design led solutions

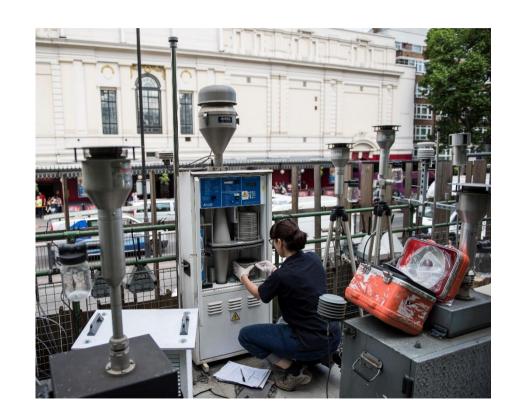


### OUR OBJECTIVES

- Reducing exposure of Londoners to harmful pollution across London – especially at priority locations like schools – and tackling health inequality;
- Achieving legal compliance with UK and EU limits as soon as possible, including by mobilising action from the London boroughs, government and other partners;
- Establishing and achieving new, tighter air quality targets for a cleaner London, meeting World Health Organisation (WHO) health-based guidelines by 2030 by transitioning to a zero emission London.

#### MONITORING AIR QUALITY

- London has one of the most comprehensive monitoring networks of any world city, funded primarily by local authorities.
- There are approximately 140 high-accuracy automatic monitoring sites across the city, monitoring NO<sub>2</sub> and/or PM<sub>10</sub>.



### MONITORING AIR QUALITY

- We will soon be trialling a new £750,000 sensor air quality monitoring system with C40 cities which will be used to analyse pollution in up to 1,000 hot spots across the city including near schools, hospitals, construction sites and busy roads.
- Around 100 sensors will be fitted to lampposts and buildings and sensitive locations, and two dedicated Google Street View cars will be driving across the city, mapping pollution in detail.



## AIR QUALITY ALERTS



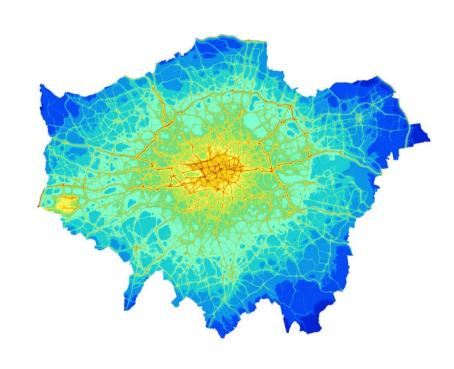
- During and on the day before high and very high air pollution days, air quality alerts will be displayed at:
  - 2,500 bus countdown signs and river pier signs.
  - 140 road signs, with instructions to switch engines off when stationary to reduce emissions.
  - The entrance of all 270 London Underground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





#### MODELLING AIR QUALITY

- Update to the London
   Atmospheric Emissions
   Inventory (LAEI), a full
   inventory of emissions, by
   source and by location
- Presented as excel spreadsheets, tables / maps.
- Strategic emissions and concentration modelling to inform policy, plans and proposals.



#### SCHOOL AUDITS

- We have identified that 360 primary schools located in areas exceeding legal pollution limits.
- The Mayor has completed 'air quality' audits at 50 schools that will identify new measures to protect pupils from toxic air.
- Grants are being made available to schools so they can take action.



#### **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





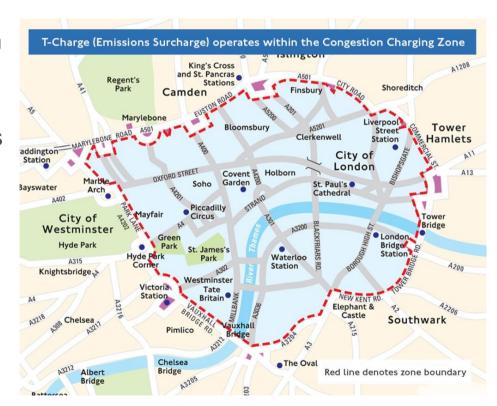
### LOW EMISSION ZONE

- Started in 2008 to target oldest and most polluting HGVs, buses and coaches
- Covers the whole of Greater London (1,580 km²) operates 24/7, 365 days pa.
- Daily charge £100 £200
- Compliance with current standards high at around 96 per cent for lorries, buses and coaches, and 98 per cent for vans and minibuses.
- Helped reduce PM emissions.



#### T-CHARGE

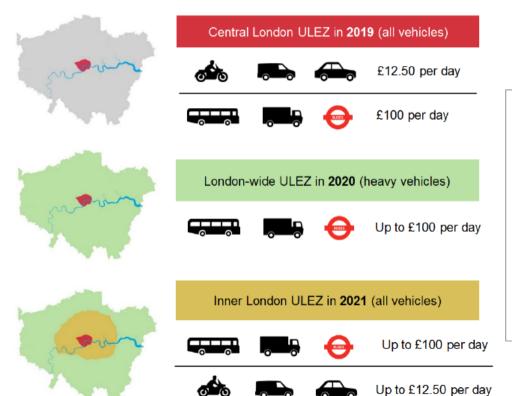
- A new T-charge started on 23 October 2017.
  - £10 charge during
     Congestion Charge hours
     for older polluting
     vehicles
  - On top of existing £11.50
     Congestion Charge
  - For pre-Euro 4/VI toughest standard of any world city.



#### LOW EMISSION BUS ZONES

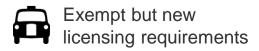


#### ULTRA LOW EMISSION ZONE



#### ULEZ standards

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



# IMPACT OF EXPANDING THE ULEZ

- Expanding the ULEZ will lead to approximately 100,000 people no longer living in areas exceeding legal limits.
- In outer London there will be a 28 per cent reduction in NO<sub>x</sub> road transport emissions, and in inner London there will be around a 31 per cent reduction in NO<sub>x</sub> road transport emissions in 2021.
- Over 3,000 primary school children in polluted areas of London and Luton will have their lung health monitored over a four-year period in a new international study led by Queen Mary University of London.



#### ZERO EMISSION VEHICLES

- New requirements for GLA fleets such as the Fire Brigade and Police force
- 'ULEV only' streets being brought in this year
- Zero Emission Zones to be introduced in town centres from 2020 and in central London from 2025





## **EV INFRASTRUCTURE**

On-street residential charging



Top-up
/destination
charging



Rapid charging



Most important for commercial vehicles such as PHVs and taxis – target is 150 by end 2018

# LONDON NON-ROAD MOBILE MACHINERY LOW EMISSION ZONE FOR CONSTRUCTION SITES

Covers NRMM on construction sites between 37 and 560 kW

**Now:** Stage IIIB in the Central Activity Zone (CAZ) plus Canary Wharf area (yellow zones), Stage IIIA everywhere else

**2020:** Stage IV in CAZ plus Opportunity Areas (where we a planning the most construction), Stage IIIB everywhere else.

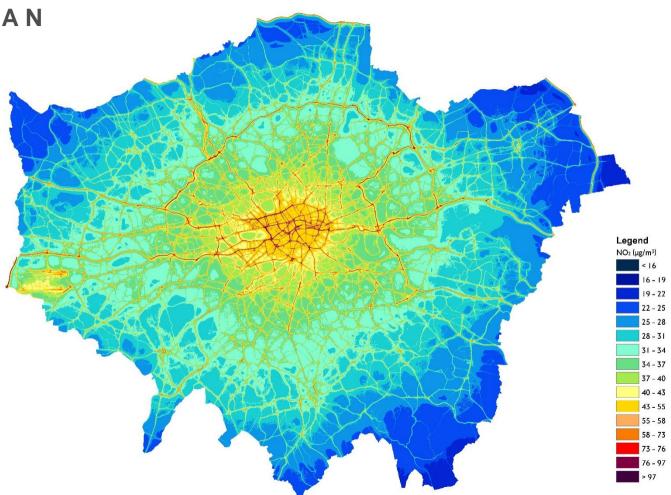
2025: Stage IV throughout London2030: Stage V throughout London

2040: zero emissions throughout London

We are also working with industry as they develop hybrid and zero emission technology as well as retrofit solution for existing machinery.

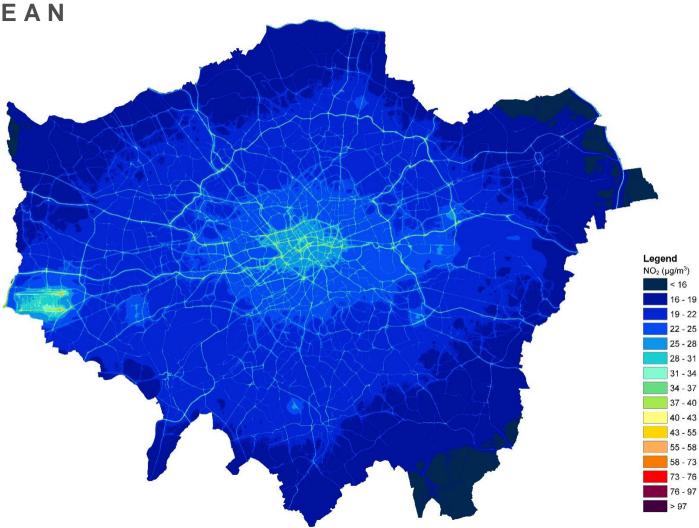


LAEI 2013 UPDATE (2017)

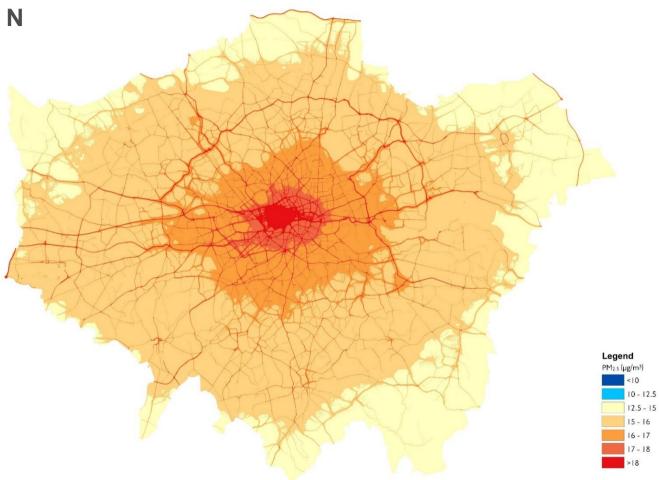


ANNUAL MEAN NO<sub>2</sub>, 2025

LONDON ENVIRONMENT STRATEGY (2018)



LAEI 2013 UPDATE (2017)



A N N U A L M E A N P M <sub>2.5</sub>, 2030

LONDON ENVIRONMENT STRATEGY (2018)

