



Contents

- Introduction the emissions problem
- Policies and strategy background
- London's Low Emission Zone
- London's Congestion Charge Scheme
- The proposed Ultra Low Emission Zone
- Action right now: Source London and future charging points



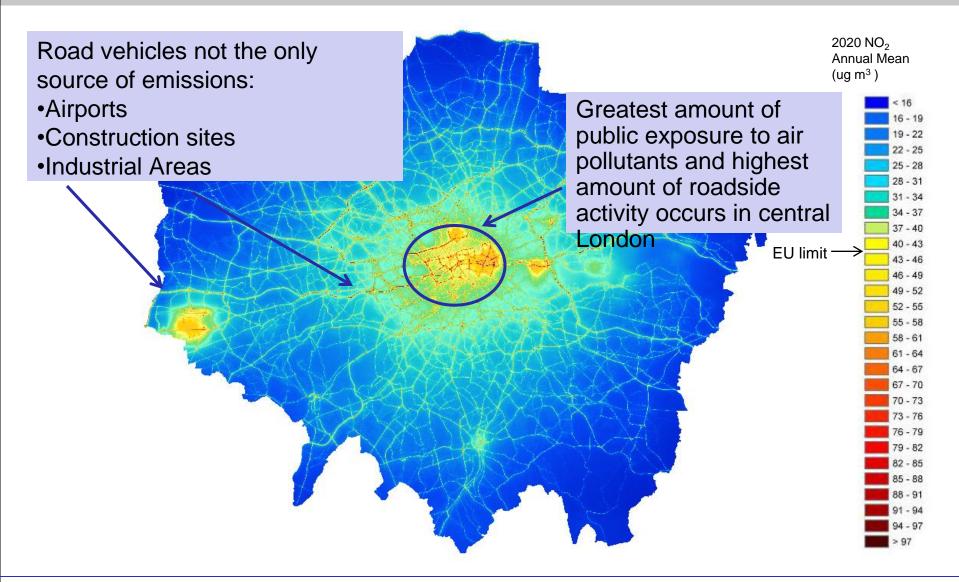
Introduction

The Emissions Problem

- London suffers from poor air quality and emits too much carbon dioxide
 - Causes and exacerbates health problems
 - Contributes to global warming
- There is strong policy drivers from Government and the London Mayor to encourage reduction in levels of carbon and air pollution created by vehicles
- We are being infracted by the European Union for missing targets on NO₂ (Nitrogen Dioxide).

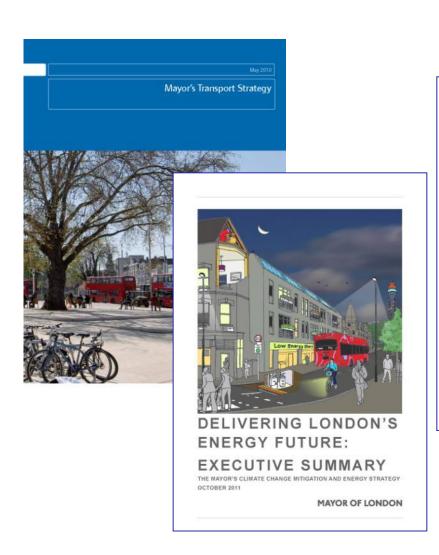


Air Quality Hotspots





TfL and GLA policy:







Mayor's Air Quality Strategy



Smarter choices and sustainable travel





Localised action and non vehicle solutions





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Mayor's Climate Change Mitigation and Energy Strategy

Minimising CO₂ emissions through a shift to more carbon efficient modes of transport



Minimising CO₂ emissions through more efficient operation of transport



emissions from transport in the GLA



Minimising CO₂ emissions from transport through the use of low carbon vehicles, technologies and fuels





Mode specific policies

- Public transport promote, encourage, cater for demand
- Pedestrians and cyclists promote, encourage, improve safety
- Taxis and Private Hire Vehicles new taxis from 2018 must be zero emissions capable
- Cars and powered two wheelers
- Buses
- Freight







Emerging policy – Transport Emissions Action Plan

- Looks at how far the funded measures take us towards meeting targets and limit values
- Sets out more funded and unfunded schemes to help achieve targets and compliance to reduce both CO2 and air quality pollutants
- Includes what we can support or lobby for, for delivery by central government or EU

Initative name	Туре	Lead	Timescale	Benefit	Currently Funded	Cost	CO2 Impact	Air quality impact
Reducing demand for travel	•	•	•	!	•		•	•
Car lite and car free development	Policy / Strategy	Borough	Short	а	×	££	**	**
Travel Demand Management	Mixed	TfL	Short	a	✓	£	*	*
Revision to London Plan parking standards	Policy / Strategy	TfL	TI TI	a	×	£	*	*
Parking restriction	Infrastructure	Borough	100	a d	×	£	*	*
Continual review of Congestion charge levels and discounts	Policy / Strategy		Me um	ac	×	£	**	**
Provision of alternative modes				•	•		•	
Line Upgrade programme	Infrastru		Short	а	✓	£££	*	*
Crossrail (including enhanced stations)	Infrastruc. 9		Medium	а	✓	£££	*	*
New Public Transport infrastructure	Infrastructu	TfL	Long	а	×	£££	*	*
Pedestrian countdown programme	Infrastructur	TfL	Short	а	✓	£	*	*
Mayor's Better Streets programme	Infrastructure	TfL	Short	а	✓	£	*	*
Legible London rollout	Infrastructure	TfL	Short	а	✓	£	*	*
A "tube network" for the bike	Infrastructure	TfL	Short	а	✓	££	*	*
Cycling vision supporting measures	Information / Promotion	TfL	Short	а	√	£	*	*



Low Emission Vehicles Road Map

Research into alternative fuels, and measures to encourage uptake of cleaner vehicles

1 2 3 4 5

A whole life-cycle analysis (LCA) of the alternative fuel and infrastructure options available to each vehicle now and potential changes up to 2031 and beyond.

Details of the infrastructure required and the feasibility of delivering this infrastructure for each alternative fuel option.

Conditions required in order to encourage uptake of alternative fuels and technologies for each vehicle type.

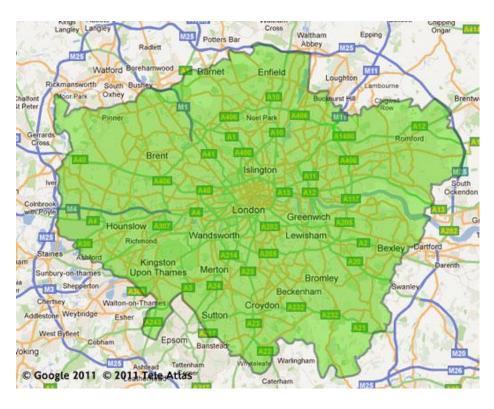
Agree the most realistic fuel and technology mix for each vehicle type for a high, medium and low scenario.

Develop a trajectory for low emission vehicles in London for each scenario agreed in iv.



Low Emission Zone (LEZ) - coverage

- The LEZ covers Greater London (1,580 square kilometres)
- Operates 24/7, 365 days a year
- Targets oldest and most polluting vehicles







Low Emission Zone (LEZ) - effectiveness

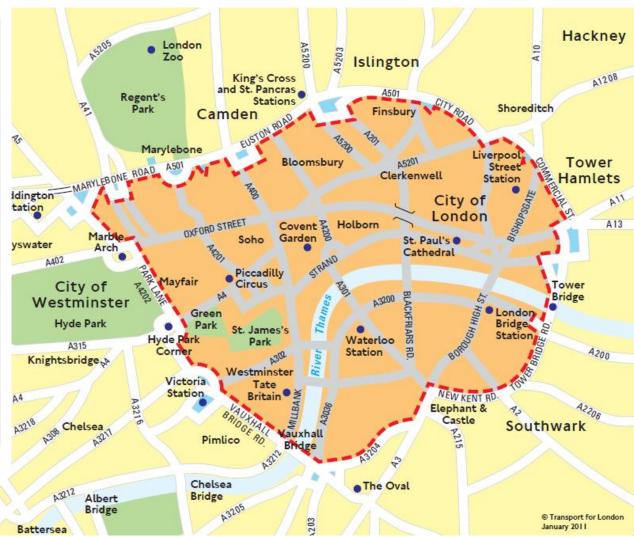
- Compliance with current (January 2012) standards high at 92 per cent for lorries, buses and coaches, and 98 per cent for vans and minibuses.
- Very effective in reducing emissions.
 Phases 1 and 2 of the LEZ reduced emissions of PM₁₀ by 28 tonnes in 2008
- LEZ Phase 5 will be introduced in 2015, which will require all TfL buses to meet a Euro IV standard requirement for PM₁₀ and NO_x





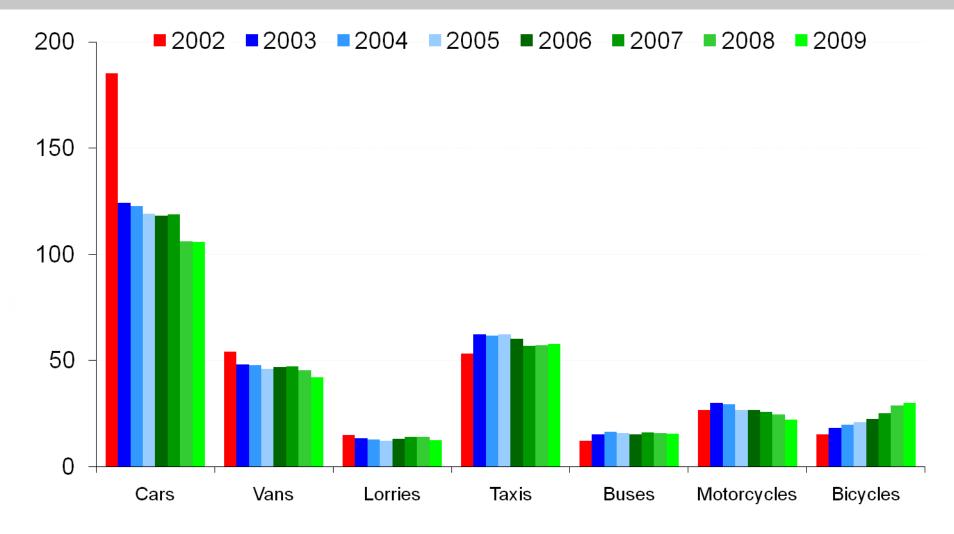
Central London Congestion Charging Zone







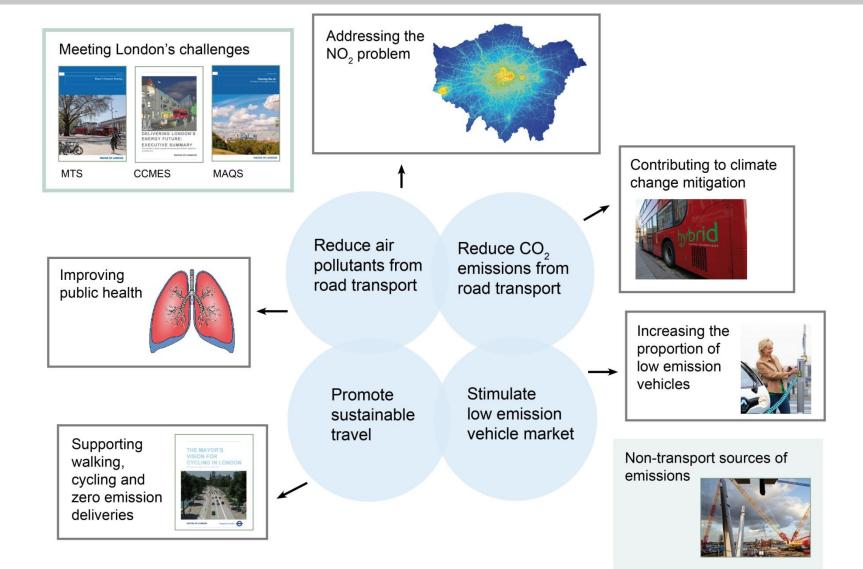
Average daily traffic entering Congestion Charging zone*



^{*} During charging hours (07.00-18.00)

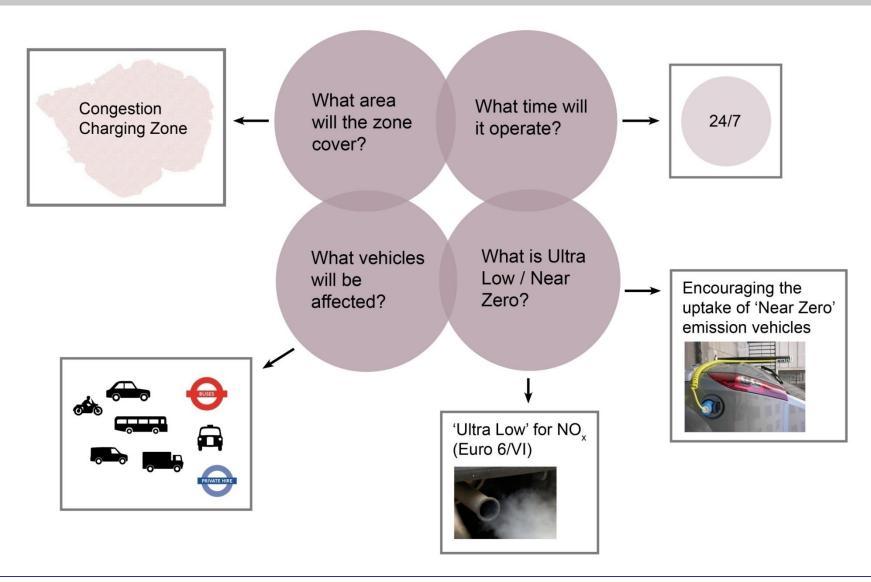


Ultra Low Emission Zone... why?



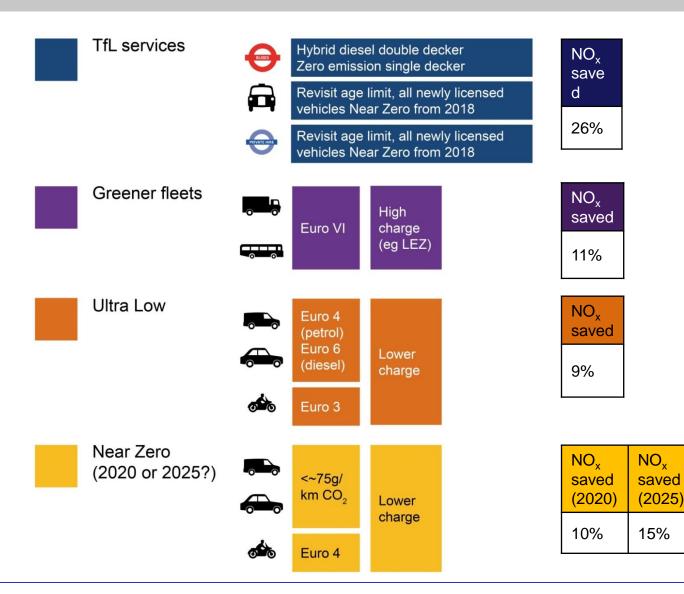


Key questions





Packages for consideration





Source London – 1,400 public charge points

- Launched May 2011
- 1400 charge points are currently available across London









Future expansion of charging points in London

- Bolloré Group selected to take over Source London scheme from this summer.
- 6,000 charge points by 2018
- Potential electric car sharing scheme launching 2015, based on the French Autolib' model
- Rapid charging
 - How many and where?
 - Implications on the electricity grid?
- Wireless inductive charging
 - Trials being undertaken



Questions?

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