#brumbreathes

Improving the air we breathe

A Clean Air Zone for Birmingham

Birmingham City Council





Background

- Poor air quality is a major public health burden
 - Up to 900 deaths per year in Birmingham are linked to man made air pollution
- Transport is the biggest source of pollution
 - Contributing on average to approximately 80% of nitrogen oxides (NOx)
- UK Government has obligations under EU and domestic legislation to set out a national strategy and plans to improve air quality to meet legal limits

Background

- In 2015 Client Earth took the Government to the Supreme Court over its inaction to address air quality.
 - As a result the Government were instructed to develop an air quality plan to achieve reductions of NO_2 in the shortest possible time in line with legislative requirements.
- National Air Quality Plan issued in December 2015
 - Identified five cities including Birmingham as being non-compliant beyond 2020.
- Ministerial Direction issued in December 2017
 - Required the council to submit a business case for a scheme in September 2018



The causes and types of air pollution





The effects of air pollution on Birmingham's citizens







The challenge for Birmingham

The composition of our vehicle fleet and the emissions created provide Birmingham with a significant challenge





The 'hotspots' where the problems are worst

Location	Level of NO ₂ expected in 2020 if we take no action
A4540 Lawley Middleway to Garrison Circus	46.9µg/m³
A4100 Digbeth	46.4µg/m³
A38 Lancaster Circus to Dartmouth Circus	46.6µg/m³
Suffolk Street Queensway near Beak Street	48.8µg/m³

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A CLEAN AIR ZONE FOR BIRMINGHAM



The purpose of a Clean Air Zone

- An area where targeted action is taken to improve air quality, by discouraging the most polluting vehicles from entering the zone
- A Clean Air Zone (CAZ) should achieve compliance with defined air quality standards by focusing on three specific outcomes





The types of Clean Air Zone (CAZ)

- The class determines which vehicles are affected by the CAZ
- Travel through a CAZ would incur a charge/fine for non-compliant vehicles
- CAZs can be designed differently to suit the local circumstance
- CAZ framework sets out minimum Euro Standards
- Any vehicle below the standard will be charged for entering a CAZ



There are different classes of CAZ





Developing a CAZ for Birmingham

- Local transport and air quality models developed to confirm what CAZ class would achieve compliance
- Supplemented by a number of additional workstreams:
 - Integrated Impact Assessments (to identify the economic, health and equality impacts of the scheme)
 - Additional Measures Study to identify potential measures which could be implemented alongside a CAZ in order to achieve compliance.
 - Freight and Logistics Operators study targeted at city centre businesses and freight and logistics operators to look at options to support them with changes in operational practices and the transition to cleaner fleets



Developing the CAZ

- Different potential solutions have been modelled including different CAZ classes
 - The goal was to see what type of CAZ would provide the optimum solution
- Local modelling shows the air quality issues broadly align with Government's national Pollution Climate Mapping (PCM) with regard to the locations of exceedance of the NO₂ annual mean limit value of 40 µg/m³
- CAZ D is required for Birmingham (which includes private cars)



What a CAZ D means for Birmingham

- To include all the roads within the Middleway Ring Road (A4540), but not the Middleway itself
- Charges to apply all day, everyday
- Introduce additional measures to achieve compliance
- Reduce levels of NO₂ below 40µg/m³
- To be implemented in January 2020





What a CAZ D means for Birmingham

- Improved air quality across the city
- Wider health benefits i.e. reduction in still births, deaths linked to man-made pollution
- Encourage individuals to use public transport
- Reduction in congestion and time spent sitting in traffic



VEHICLES INCLUDED

Buses, coaches, taxis, HGVs, LGVs and private cars (option to include motorbikes and mopeds)



What a CAZ D means for Birmingham

- Prices in these ranges would encourage enough people to change their travel habits or vehicle
- Payment to be made online before entering the CAZ area
- Specialist vehicles to be exempted i.e. ambulances, show vehicles
- Remember that a vehicle whose engine is clean enough will not have to pay anything

Vehicle type	Daily charge
Bus/Coach	£50 to £100
Lorries (HGVs)	£50 to £100
Taxi and private hire	£12.50
Van (LGVs)	£12.50
Private car	£6 to £12.50



Additional measures to support the CAZ

Туре	Summary
Fleet Upgrades	 Taxis –Support through CAF finance package for Hackney Cabs based on enabling smooth transition supported by strict age limit ; Targeted Hackney Carriage LPG retrofit programme; Support Private Hire Vehicles Upgrade to Electric. Subject to availability and realistic timeline.
	 LGV vans – support through CAF finance package to enable smooth transition. Subject to availability and realistic timeline.
	 Zero emission buses (new Hydrogen buses)
Parking	 Remove all free parking from on-street areas in the city centre.
Network Changes	 Closure of Moor Street Queensway between Masshouse and Park Street to general traffic, with only Public Transport, Hackneys and cycles allowed in the area.
	 Ban the route of traffic travelling northbound on Suffolk Street Queensway (A38) that exits onto Paradise Circus to then access Sandpits Parade.
	 Ban southbound traffic from Paradise accessing the A38.
	 Close Lister Street and Great Lister Street at the junction with Dartmouth Middleway except for public transport movements.
Public Transport	 Improvements to bus corridors based on work by TfWM (Transport for West Midlands)



Ways we are already tackling air pollution



grant funding secured to support this work

- Focused on:
 - Further bus priority measures across the city core to plug gaps in existing city centre bus priority – re-allocating roadspace in key locations to improve bus journey reliability.
 - New traffic signal control strategies at four key intersections within the City Core which are closely related to key air quality locations.
 - Signing and re-routing strategy and introduction of variable messaging



Funding the CAZ and the use of the income generated

- Funding from Government's Clean Air Zone Implementation Fund to introduce the CAZ
- Income from the CAZ charges and any Penalty Charge Notices issued to cover the costs of running the CAZ
- Surplus money will be spent on activity that will further improve Birmingham's air quality
 - Such as improvements to public transport, cycling and walking and support for businesses and individuals

How we will do it

- The CAZ will be clearly signposted with road signs
- Installations of ANPR cameras to capture vehicles driving into and within the zone
- Penalty Charge Notice (PCN) of up to £120 will be issued to the registered keeper of the vehicle to be paid in addition to the CAZ charge
- No charge if your vehicle is parked within the CAZ boundary and does not move all day (e.g. because you live in the CAZ)
- Continue to monitor air quality in the city after implementation



Is your vehicle compliant?

- The engine standards which will apply to Birmingham's CAZ (Euro 4 or better for petrol, Euro 6 or better for diesel) are the same as the London Ultra Low Emission Zone (ULEZ)
- Your vehicle registration document (also known as the V5C) will help identify your vehicle's Euro emission standard
- Check your vehicle is compliant using:

tfl.gov.uk/modes/driving/ultra-low-emission-zone

http://eurostandards.co.uk



Next steps

• Go to complete the online consultation:

birmingham.gov.uk/caz

- You can also attend one of the drop-in session take place around the city
 - Information about these sessions available online and in libraries around the city
- Consultation ends: 17 August





