

A Clean Air Zone in Bradford

IAPSC Birmingham

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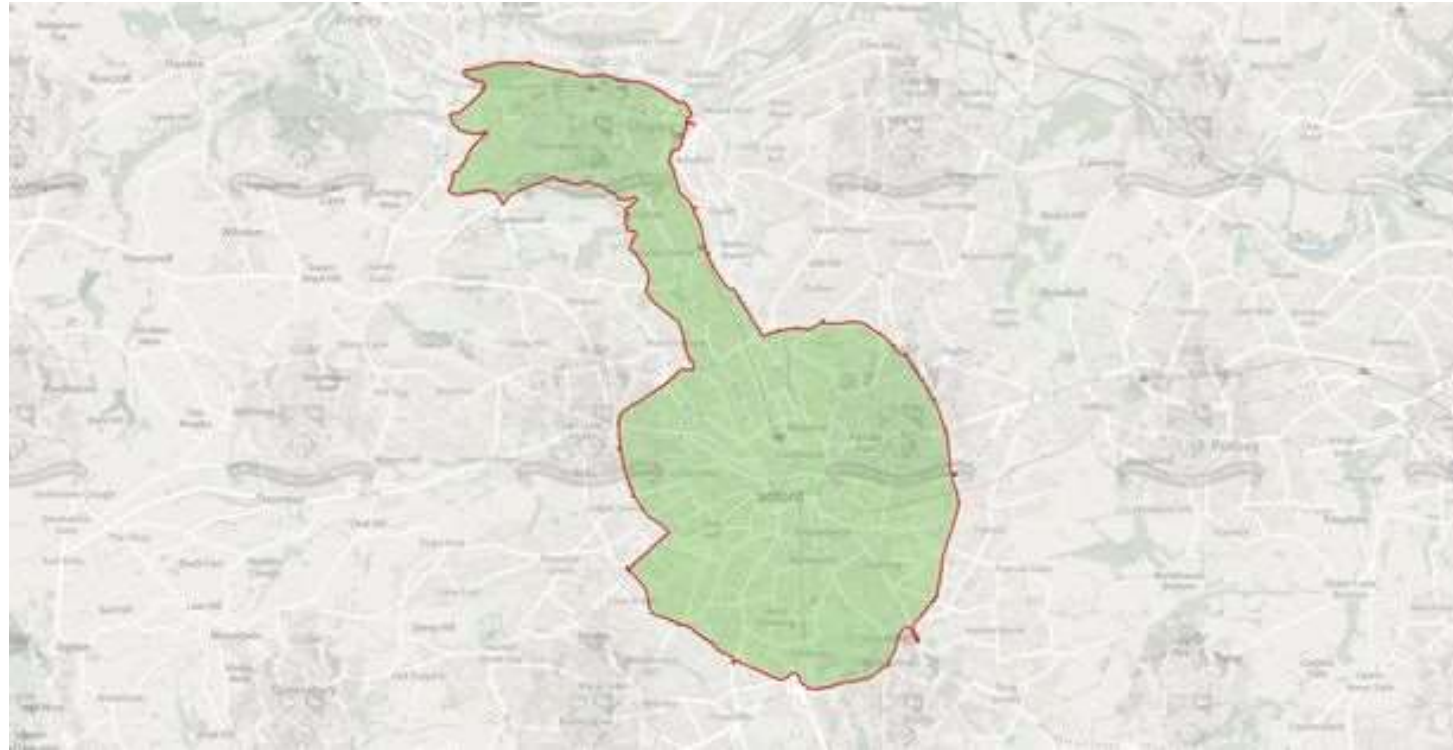
- Where is the Clean Air Zone ?
- Which vehicles are affected and how does it work?
- Why do we need a Clean Air Zone ?
- Where can I find information ?
- What help is available ? What has been done to make this less difficult for Bradford residents and Businesses
- CAZ, positive outcomes so far
- Publicising the Clean Air Zone



Bradford Clean Air Zone (CAZ) Area

330 ANPR
cameras

Euro 5/6 petrol
hybrid PHV



9.3 miles

CAZ C
Commercial
vehicles only

Live from 26th September 2022

Detailed map at

<https://cbmdc.maps.arcgis.com/apps/webappviewer/index.html?id=33eae7bd47d7494cab11f210129b15c3>

How does it work?

- Provision in Transport Act 2000
 - 330 automatic number plate recognition cameras along the boundary and inside the zone
 - Data sent to Central Service (DVLA)
- Non-compliant, older ~2015/16 commercial vehicles Identified (~3.5% of traffic)
- National & Local white list
 - Charges collected centrally by DVLA
 - Unpaid journeys processed by Local Authority
 - The most effective Clean Air Zone does not take any charges
 - Charges are legally ringfenced for sustainable transport

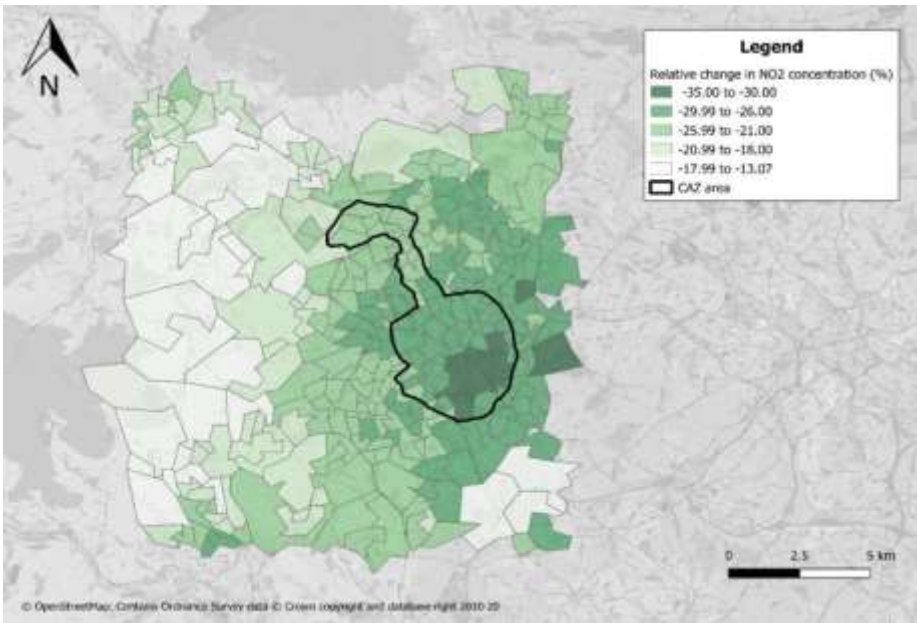


Why does Bradford need a Clean Air Zone ?

- NO₂ Exceedances A650, Mayo Avenue, Tong Street, Manningham Lane, Queens Road and Bingley Road, Saltaire
- Traffic flows are now higher than before lockdown
- Air quality monitoring data shows that many areas are still above the legal limit
- The CAZ will ensure legal limits for NO₂ are met



NO₂ levels in 2018



Improvements in NO₂ across the District with the CAZ

ENVIRONMENT ACT 1995

Environment Act 1995 (City of Bradford Metropolitan District Council) Air Quality Direction 2020

Schedule 1, Article 3

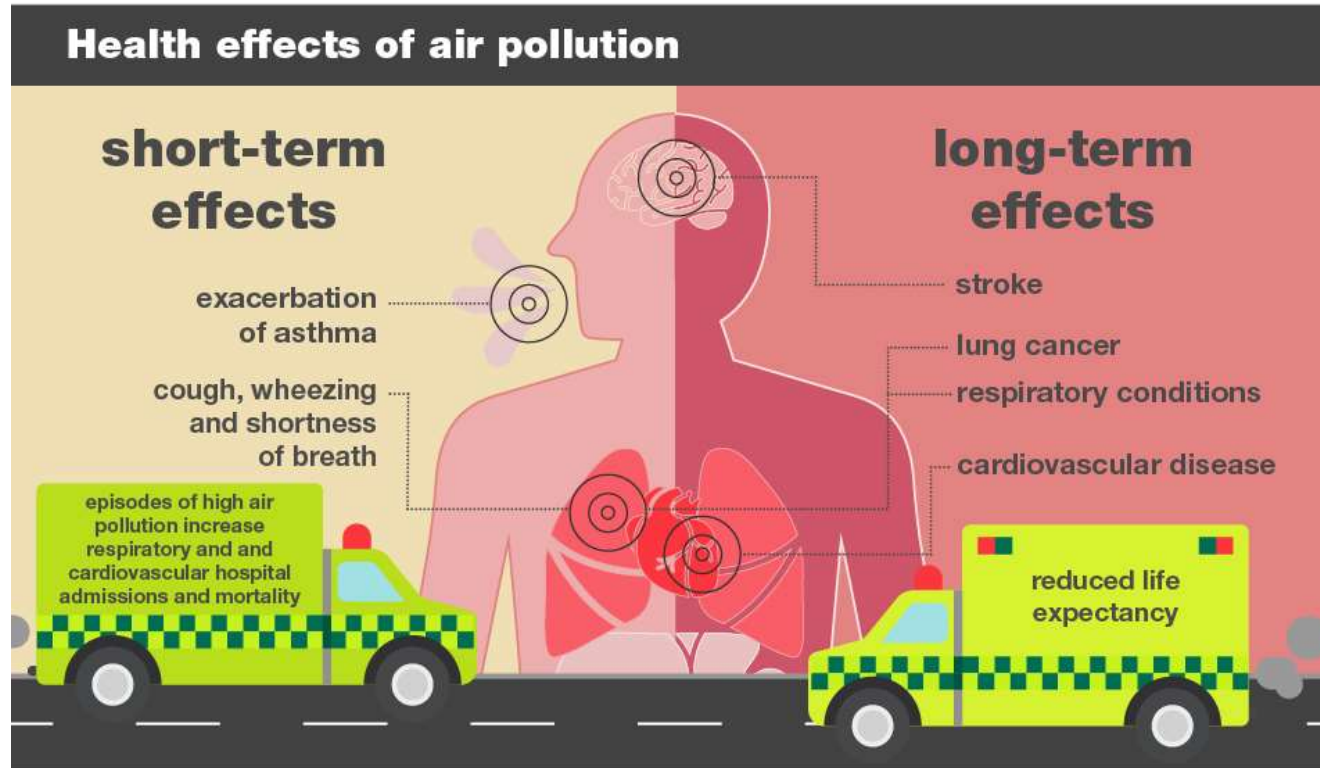
Class C Charging Clean Air Zone

To be implemented as soon as possible and at least in time to bring forward compliance to 2022

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/867249/air-quality-direction-bradford-2020.pdf

NHS Costs
£20BN/Year

25% childhood
asthma cases in
Bradford caused by
traffic pollution



40,000 early
deaths/year

200 deaths per
year in Bradford

Low birth
weight

Reductions in IQ in children
Cognitive decline &
dementia

1 in 5 children in Bradford
have a breathing problem



- What is the impact of the Bradford Clean Air Plan on:
 - Respiratory health, cardiovascular health and birth outcomes
 - Health inequalities

Respiratory health:

- 500 deaths per year in Bradford
- 13154 people with COPD
- 41,858 with asthma
- Rate of emergency hospital admissions for children – 268 per 100,000

Cardiovascular health:

- 410 deaths per year (under 75)

Birth outcomes

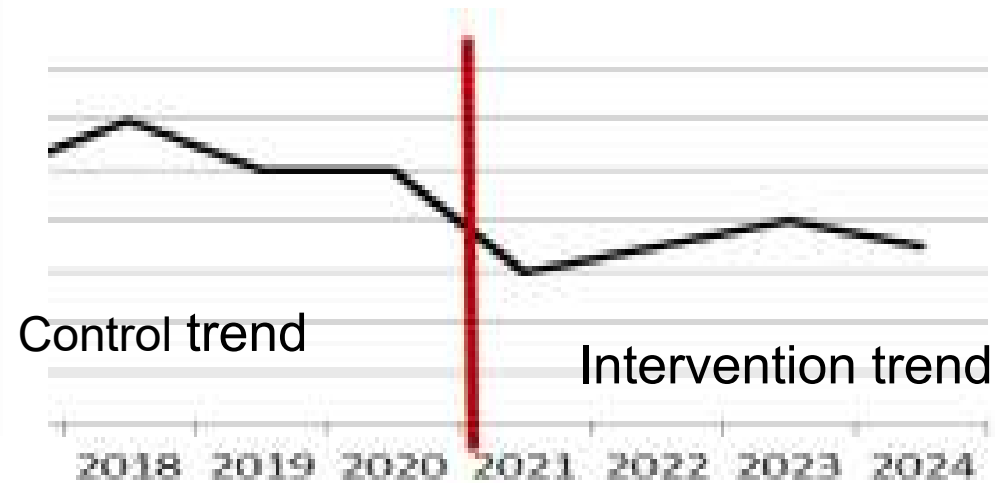
- 3.9% of babies born have a low birth weight

380 respiratory
emergency
attendances
per week

Pilot data from connected Bradford
– N=316,585, Jan 2016-Dec 2018)



Time series analysis



What is the impact of the Bradford Clean Air Plan on respiratory health cardiovascular health and birth outcomes?

How does the Bradford Clean Air Plan impact on health inequalities?

What is value for money of the Bradford Clean Air Plan 3 years post implementation and longer term?

The **Born in Bradford** family of birth cohorts



~12,500 families
and ~13,700 young
people born
between 2007-2011



Experimental birth
cohort to assess
impact of early life
interventions
Target ~5000
families, babies
born 2016-date



Routine data
linkage, consent
embedded in
routine practice
Bradford and
beyond (BaBi)
Babies born 2019-
date

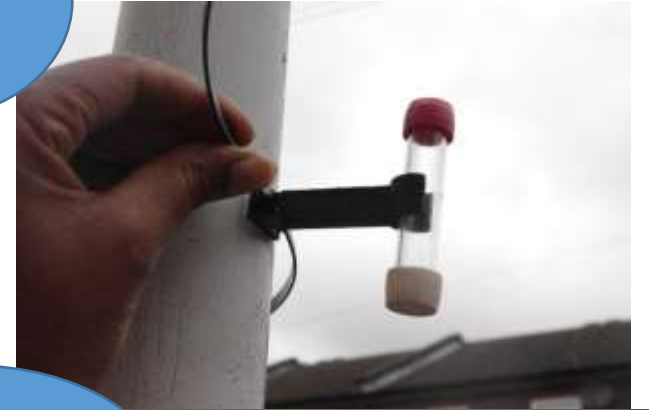


Monitoring Air Quality

3 PM₁₀ &
PM_{2.5}
Monitors



300
new
nox
tubes



7 real time
Nox
stations





Sign up for the Bradford Clean Air Zone news and updates, submit your email address here

Next

Breathe Better Bradford | [What help is available](#)



What help is available?

Clean Air Support Programme - £Grants

- £1.63m to support buses (grant circa £16,000)
- £1.66m to support coaches (grant circa £16,000)
- £11.74m to support taxis (grants from £3,200 to £5,000)
- £6.42m to support HGVs (grants up to £16,000)
- £10.18m to support LGVs (grants up to £4,500)
- £175,500 to support minibuses (grants up to £4,500)

Exemptions

- All residents of Bradford District 1 Exemption
- SME Businesses can have 3 exemptions (+ grants)
- This includes self-employed
- Does not include cars/motorbikes
- Exemptions for community transport, charities

85% of the older commercial vehicles causing the problem come from outside Bradford

Regional Comms Campaign

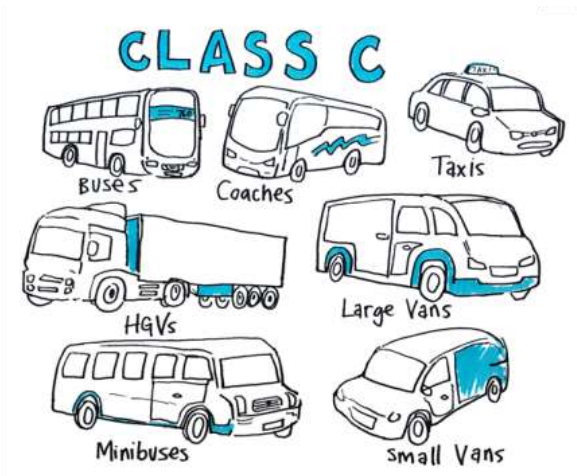
First Wave - planned spend £135,000 based on activity from 29 August 2022 through to 10 October 2022.

- Billboards
- Print in Metro Yorkshire
- Bus advertising
- Radio sponsored adverts
- Service stations
- Social media
- Geotargeting commercial vehicles, Ring fence 1 hour drive time locations for eg screwfix, building merchants etc





Bradford Clean Air Plan Engagement: Seldom Heard Communities





Low

Medium

High





Digital Comms

Social media and Geofenced targeting to ring fence commercial vehicles and passenger car drivers.

Using articles, YouTube, Facebook advertising.

Bradford 90% awareness unprecedented



Positive Outcomes for Bradford

- 92% of 3700 licensed taxis now CAZ Standard – 80% electric hybrid or electric – higher standard than London ULEZ – cleanest taxi fleet in UK with 40% plus fuel savings
- 85% of buses upgraded, 20% of HGVs & 10% of LGVs upgrading
- £10m ZEBRA bus funding award for 40 electric buses from 2023
- ZEBRA bus bid (Summer) and CAZ revenue to create Hydrogen Test bed – convert First Bus Depot, 40 buses and full RCV route, supported by the Advanced Fuel Centre
- CAZ revenue for Park & Ride and electric express busway
- 150,000 tonne reduction in GHG emissions (CAP baseline)
- Up to 35% reduction in nitrogen dioxide levels plus PM reductions
- 10% reduction in emergency hospital admissions for heart disease, COPD, respiratory disease and asthma – 380 admissions per week currently - substantial cost savings to NHS



Bradford

Clean Air Zone

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