

Clean Air Zone

Update to Sustainability and Transport Oversight and Scrutiny Committee

21 SEPTEMBER 2022



BE BOLD BE BIRMINGHAM



The impact of poor air quality

Around

1000

EARLY DEATHS

Linked to man made air pollution

LINKED TO

Heart disease
Diabetes
Asthma
Obesity
Cancer
Dementia

Still births
Infant deaths
Low birth weight
Organ damage
Premature deaths

CHILDREN IN

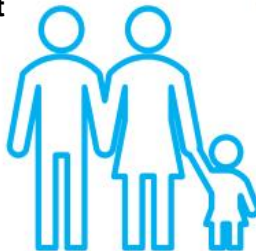
HIGH POLLUTION AREAS

x4

More likely to
have reduced
lung function



AFFECTS & DEPRIVED VULNERABLE areas most



VEHICLE EMISSIONS

80%

of roadside nitrogen
dioxide comes from
road transport

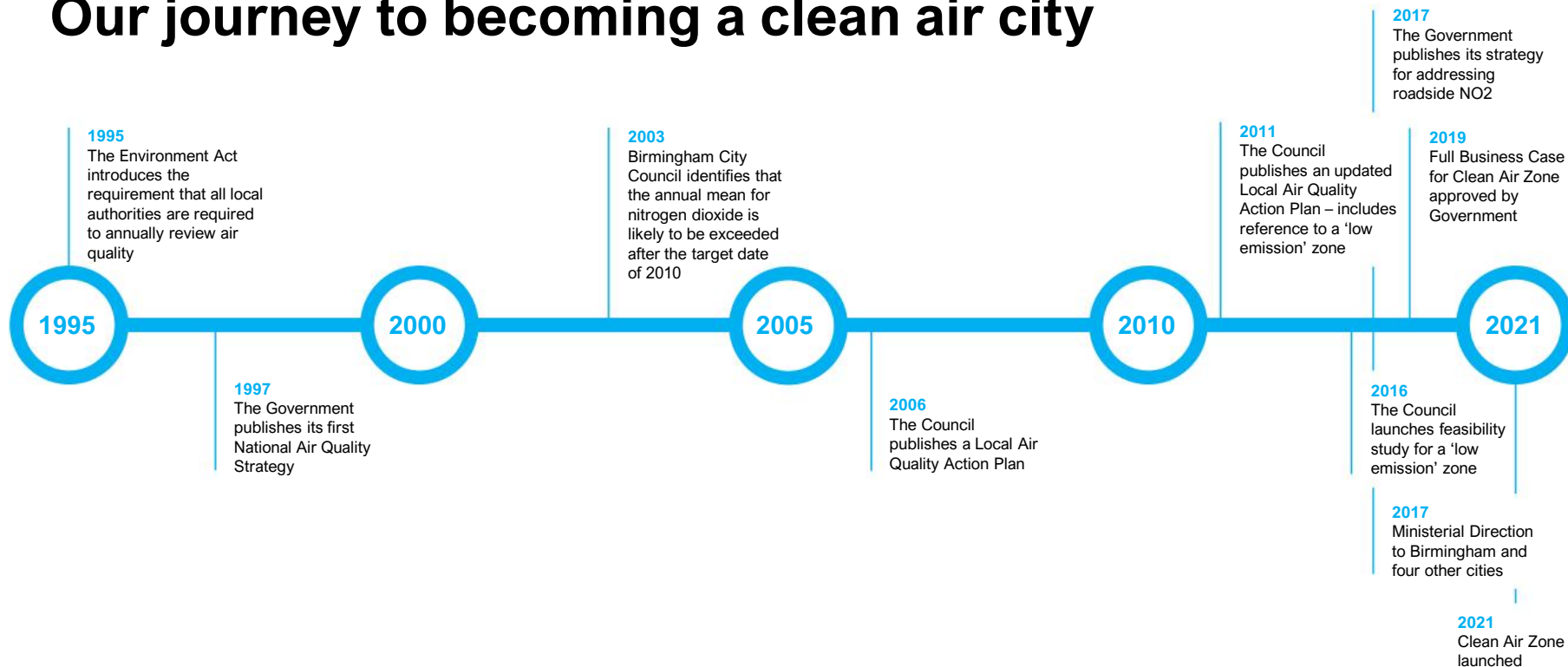
46%

of roadside NOx
emissions in the city
are from diesel cars

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Our journey to becoming a clean air city



Clean Air Zone and other similar schemes

CLEAN AIR ZONES

LIVE	2022	2023	LATER?
YORK Non charging CAZ	BRADFORD CAZ C	SHEFFIELD CAZ C	LIVERPOOL CAZ TBC
BATH CAZ C	BRISTOL CAZ D	G. MANCHESTER CAZ C (TBC)	
BIRMINGHAM CAZ D	NEWCASTLE CAZ C		
PORTSMOUTH CAZ B			

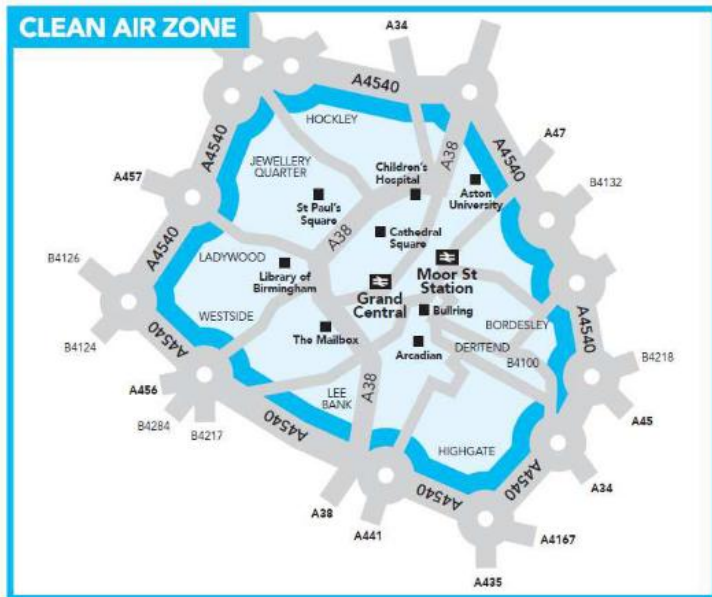
OTHER SIMILAR CHARGING SCHEMES

LONDON ULEZ April 2019 ULEZ expansion 25 October 2021	GLASGOW LEZ	OXFORD ZEZ
	EDINBURGH LEZ	
	DUNDEE LEZ	
	ABERDEEN LEZ	



Birmingham's Clean Air Zone

Launched on 1 June 2021



Includes nearly all vehicle types

TYPE D



Daily charge applies 24 hours a day

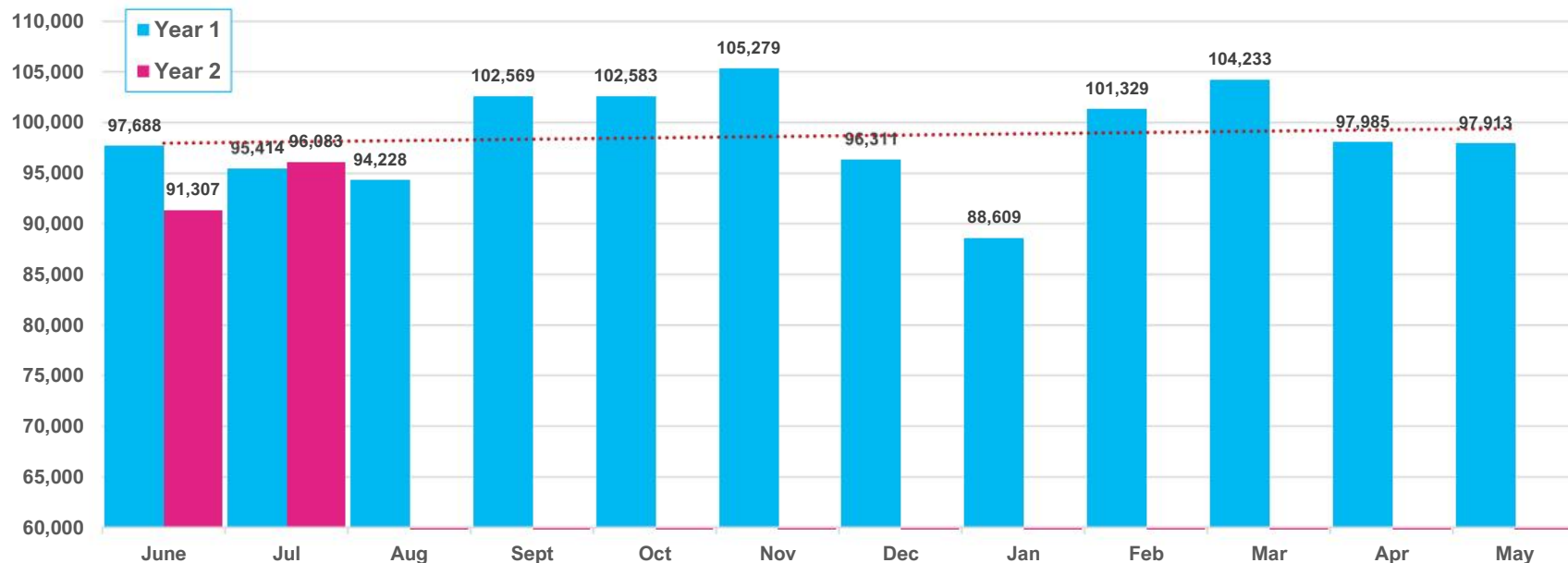
£8 Cars
taxis
vans

£50 HGVs
coaches
buses

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Is the Clean Air Zone creating the desired change?

DAILY AVERAGE UNIQUE VEHICLES

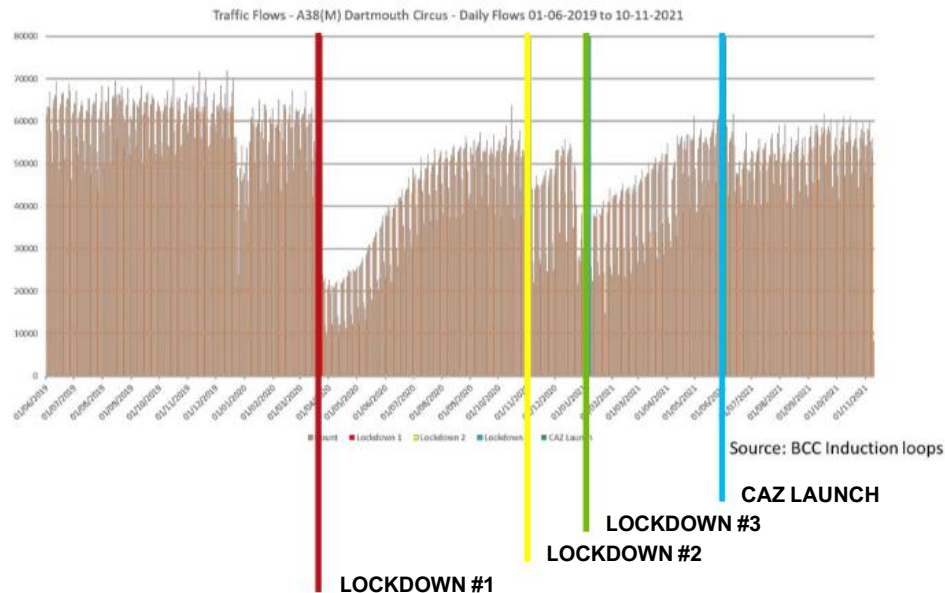


SOURCE: brumbreathes.co.uk/CAZdata

Is the Clean Air Zone creating the desired change?

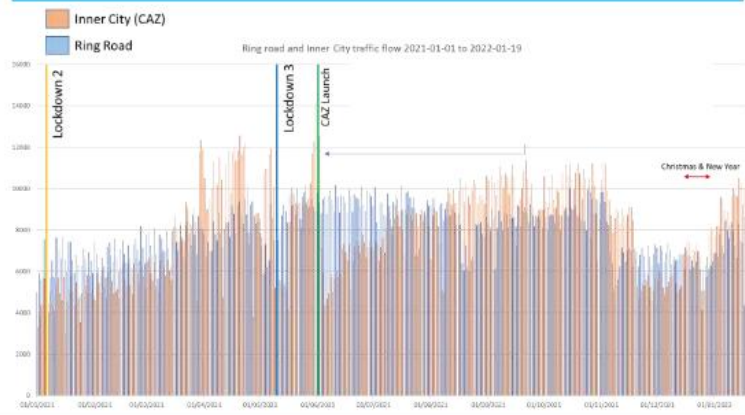
ALL TRAFFIC

DAILY TRAFFIC FLOWS (A38M)



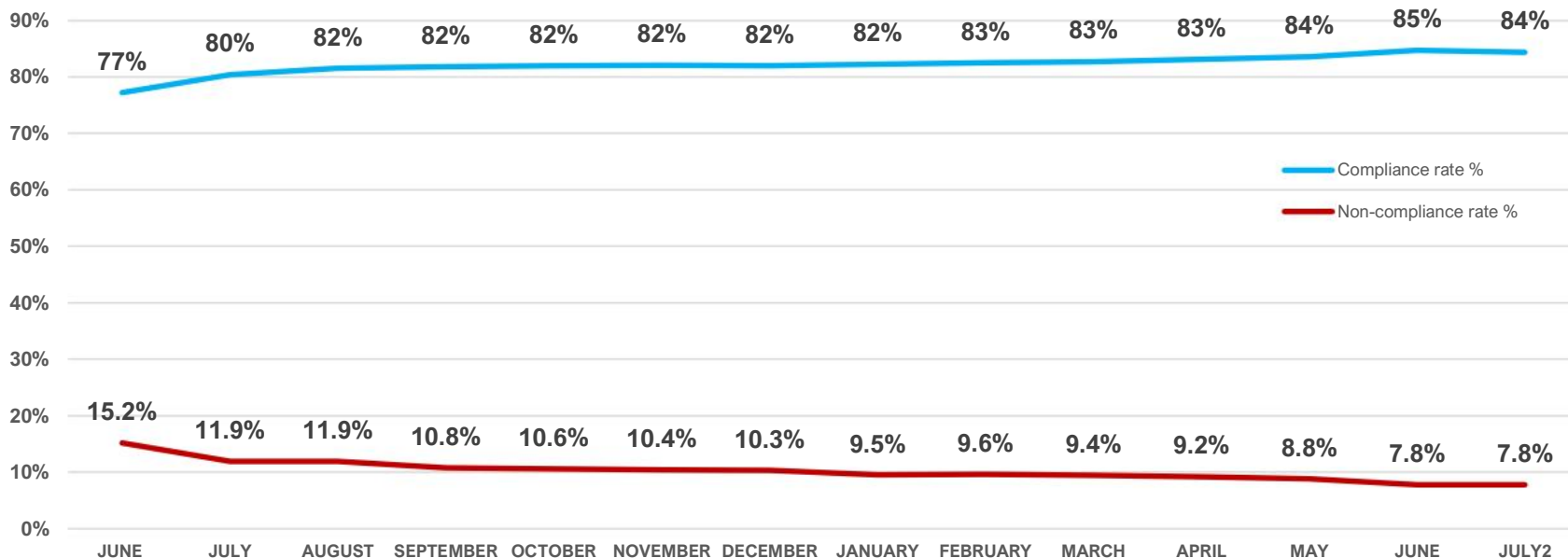
DAILY TRAFFIC FLOWS (A38M AND RING ROAD)

When the CAZ launched there was a reduction in the volume of traffic in the inner city, but there was no corresponding increase on the ring road. At the same time immediately prior to the launch of the scheme inner city traffic appears to have been elevated.



How is the Clean Air Zone performing?

THE PERCENTAGE OF COMPLIANT v NON COMPLIANT VEHICLES (DAILY AVG)

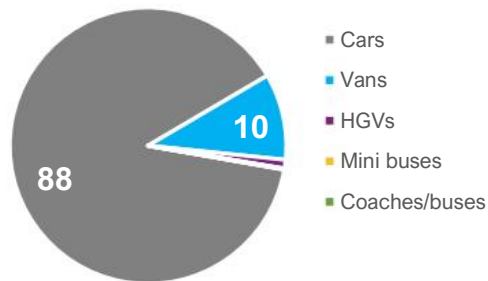


SOURCE: brumbreathes.co.uk/CAZdata

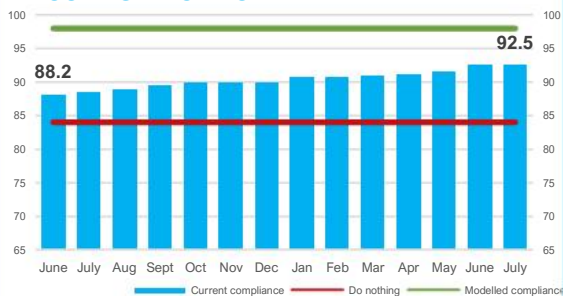
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Is the Clean Air Zone creating the desired change?

COMPOSITION OF THE FLEET



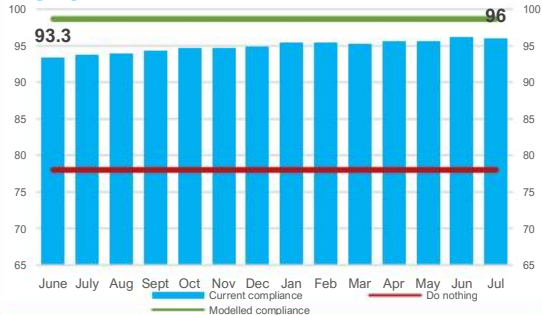
PASSENGER CARS



LGVs (VANS)



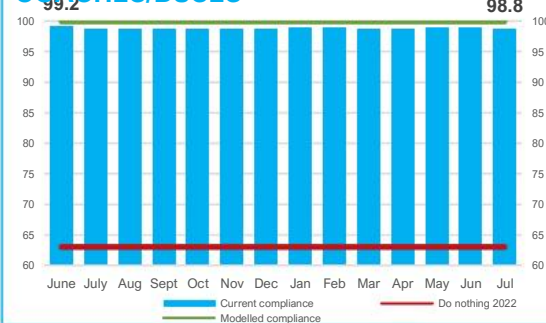
HGVs



MINI BUSES



COACHES/BUSES

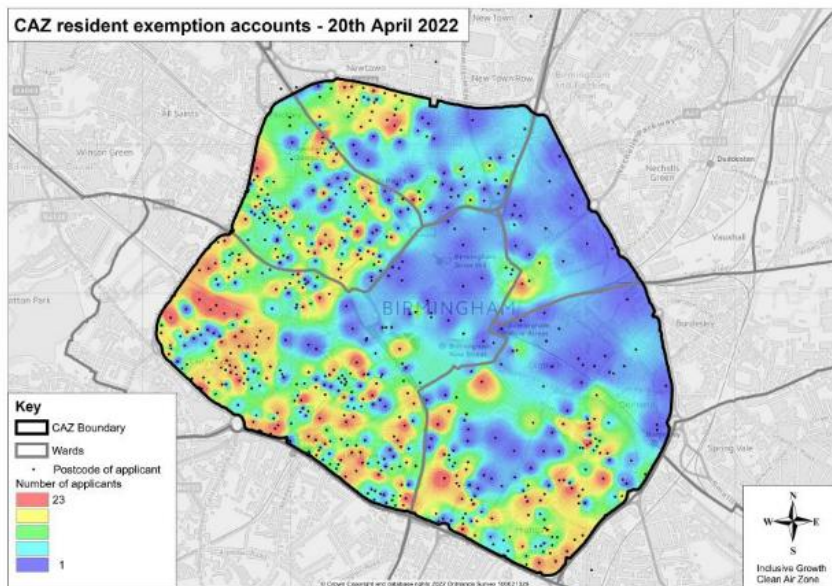


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The journey to a clean air city: supporting change

LOCAL TEMPORARY EXEMPTIONS



CATEGORY	NUMBER ISSUED	DURATION
RESIDENTS	3,027	Two years
WORKERS IN THE CAZ	6,073	One year
COMMERCIAL	530	One year
COMMUNITY USE	152	Permanent

Data as at 30 May 2022

Is the Clean Air Zone creating the desired change?

BRUM BREATHES

RUN DATES: 28th July – 11th August

KEY MESSAGES: 'Driving into Brum? Check if you need to pay' / 'You're in the Clean Air Zone' / 'Search online 'Brum Breathes''



DIGITAL BILLBOARDS / SCREENS



A4 POSTER



**WAZE
ADVERTISING**

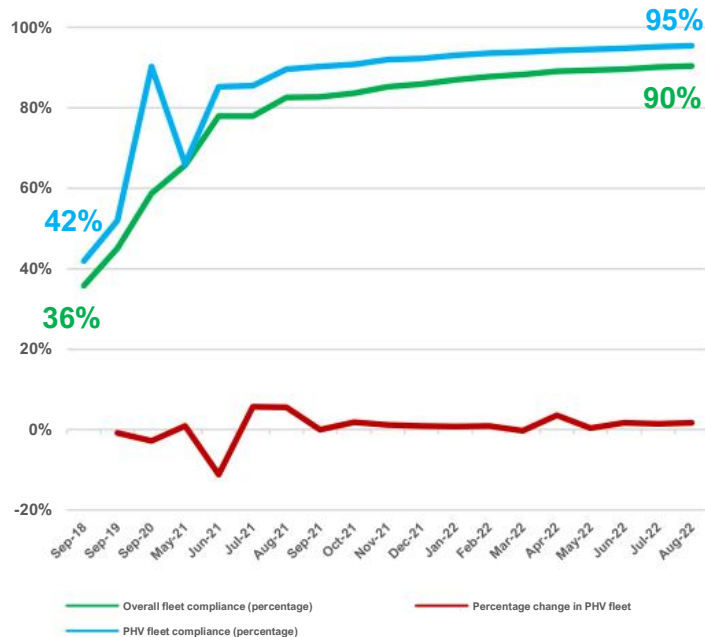


SOCIAL MEDIA

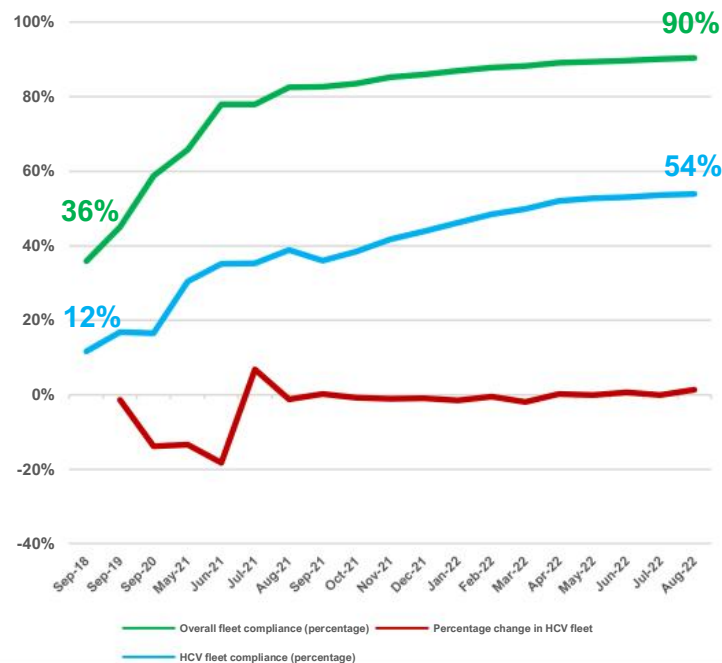
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The journey to a clean air city: supporting change

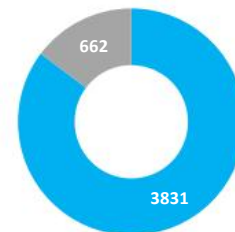
PRIVATE HIRE VEHICLES



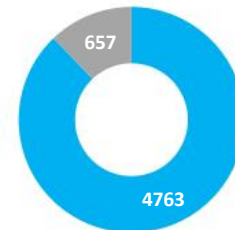
HACKNEY CARRIAGE VEHICLES



JUNE 2021



JUNE 2022



■ PHV - all vehicles
■ HCV - all vehicles

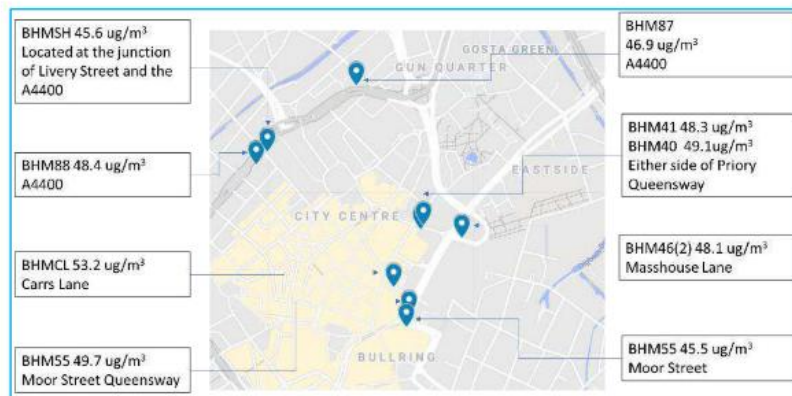
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Is the Clean Air Zone creating the desired change?

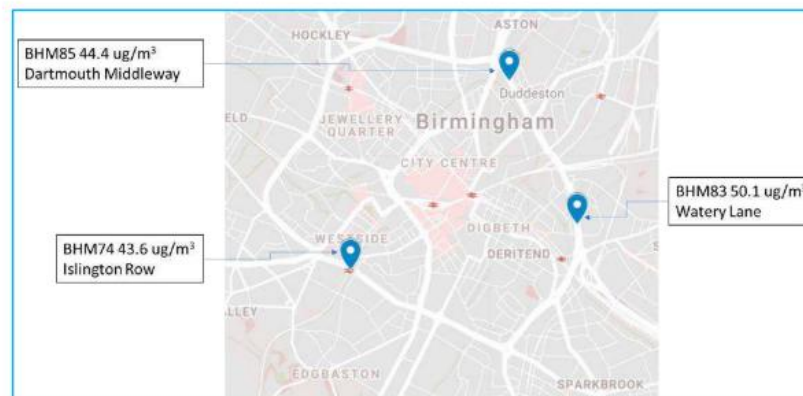
TRACKING CHANGES IN THE LEVELS OF NITROGEN DIOXIDE

	2016 to 2021	2019 to 2020	2019 to 2021	2020 to 2021
CLEAN AIR ZONE	-42%	-15%	-13%	2%
RING ROAD	NO DATA	-17%	-14%	4%
WIDER CITY	-38%	-16%	-13%	3%

LOCATIONS IN THE CAZ WITH EXCEEDANCES



LOCATIONS ON THE RING ROAD WITH EXCEEDANCES



Our journey to becoming a clean air city

Brum Breathes: a Clean Air Strategy for Birmingham

'Clean growth' means growing our economy whilst tackling air pollution, protecting the natural environment, and cutting greenhouse gas emissions, future-proofing our city as we look ahead to a better future for all of us and generations to come.

PRIORITIES

- 1 IMPROVE THE FLEET
- 2 IMPROVE THE FLOW
- 3 REDUCE THE VOLUME
- 4 REDUCE SOURCES AND EXPOSURE
- 5 EMPOWERING BEHAVIOUR CHANGE

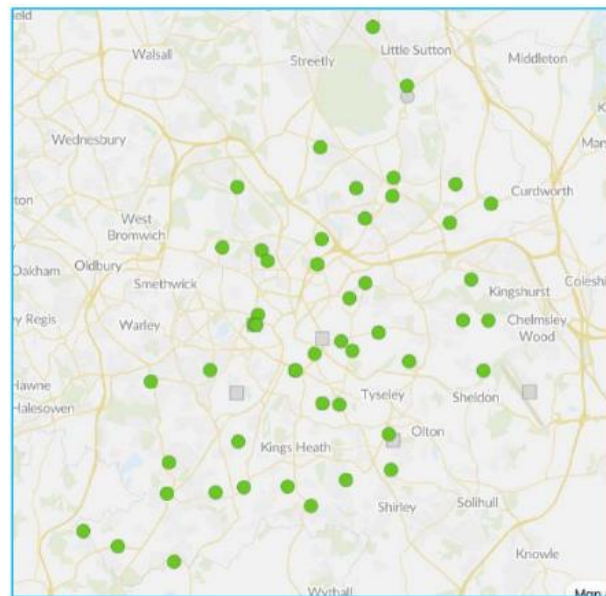
PLEDGES

- 1 COLLABORATION
- 2 CLEAN AIR FOR SCHOOLS
- 3 INCLUSIVITY AND PROTECTING THE VULNERABLE
- 4 PLANNING FOR THE FUTURE
- 5 A CLEAN AIR ZONE FOR THE CITY CENTRE
- 6 MEASURING SUCCESS

Clean air for schools

THE ROLLOUT OF AIR QUALITY MONITORS TO SCHOOLS

- 51 of the original 69 air quality sensors have been installed in schools across the city, with an additional sensor co-located with Birmingham's Ladywood Air Quality Station.
- Aim is to deploy the remaining sensors by the autumn half term
- None of the sensors have indicated an exceedance for Nitrogen Dioxide, PM10 or PM2.5
- In March 2022 Cabinet supported the allocation of Clean Air Zone revenues to the rollout of more sensors across the city
- The project is being delivered in partnership with the Travel Demand and Public Health teams



<https://airly.org/map/en/>

Clean air for schools

THE ROLLOUT OF AIR QUALITY MONITORS TO SCHOOLS – MAKING THE LINK TO OTHER TRANSPORT INITIATIVES ACROSS THE CITY

SCHOOLS	AIR QUALITY SENSOR	WARD
Brownmead Academy	Y	Shard End
Hillstone Primary School		
Nansen Primary		Allum Rock
Colmore Junior and Infant	Y	Brandwood and Kings Heath
St Dunstan's Catholic		
Woodthorpe Junior and Infant School	Y	
Court Farm	Y	Perry Common
Alston Primary		Heartlands
St Francis CE Primary		Bournville and Cotteridge
Chilcote Primary		Hall Green South
Cofton Primary	Y	Longbridge and West Heath
Featherstone Primary		Stockland Green
Nelson Primary	Y	Ladywood
Anderton Park Primary School	Y	Moseley
Holy Cross Catholic Primary School		Sutton Walmley and Minworth
Somerville Primary School	Y	Small Heath
Wyndcliffe Primary School	Y	Bordesley Green

Our journey to becoming a clean air city



Using Clean Air Zone revenues to support sustainable change

- Gap funding for a pilot of hydrogen buses (£3.355m)
- City centre pedestrianisation and public realm improvements (£8.591m)
- Upgrade of University Rail Station (£3.400m)
- Delivery of the new Camp Hill Rail Stations (£5.218m)
- Delivery of Cross City bus projects (£4.225m)
- Creation of a Clean Air Fund (£4.100m)
- CAZ funded transport and environment programme (£5.250m)

Looking beyond compliance:

- Expansion of the city's electric vehicle charging point network
 - Fast and Rapid network: 80+ points installed of 400
 - Longer term ambition: up to 3,600
- Encouraging the adoption of zero emissions technologies in the cities vehicle fleet



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