

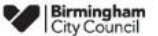
Clean Air Zone

Update to Sustainability and Transport Overview 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

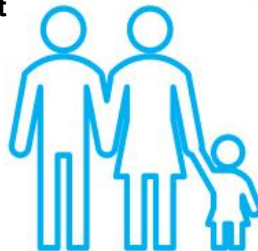
HIGH POLLUTION AREAS

x4

More likely to
have reduced
lung function



AFFECTS & DEPRIVED VULNERABLE areas most



VEHICLE EMISSIONS

80%

of roadside nitrogen
dioxide comes from
road transport

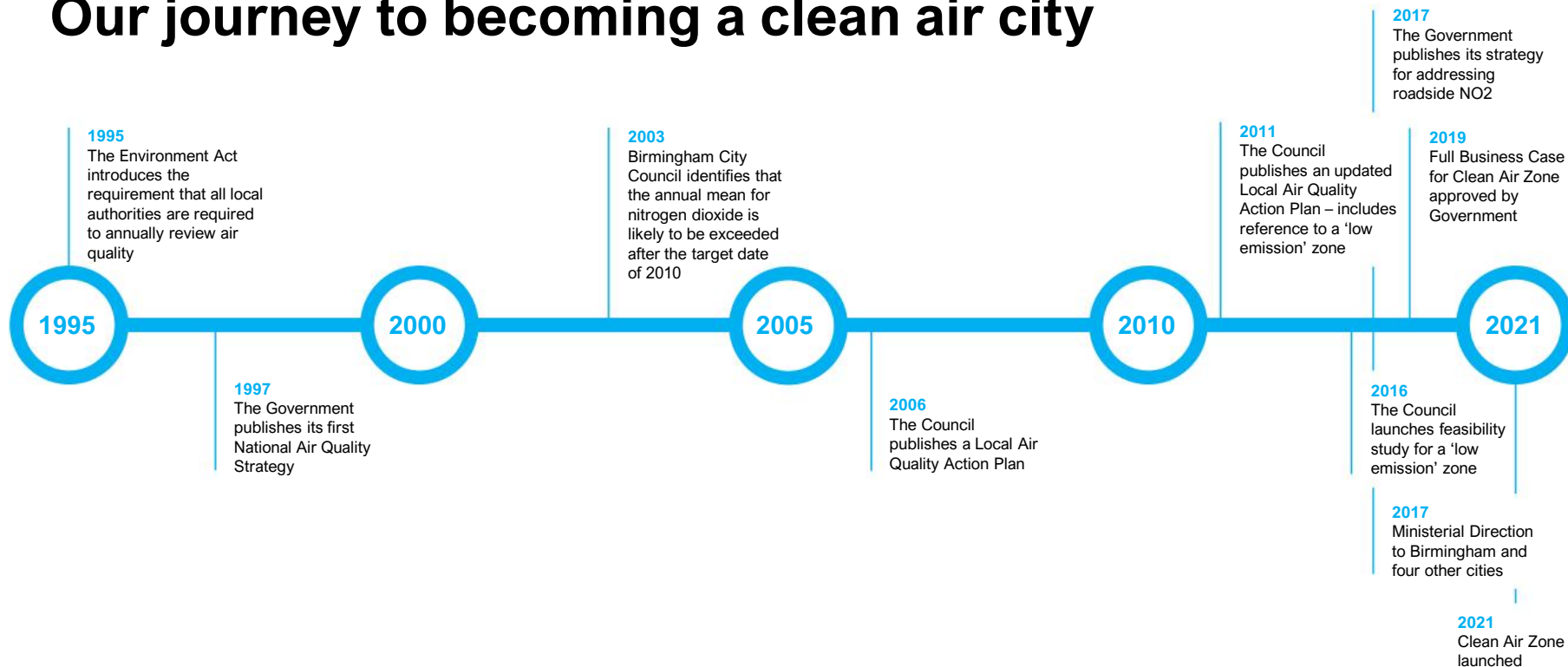
46%

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	NEWCASTLE CAZ C	
BIRMINGHAM CAZ D		G. MANCHESTER CAZ C (TBC)	
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



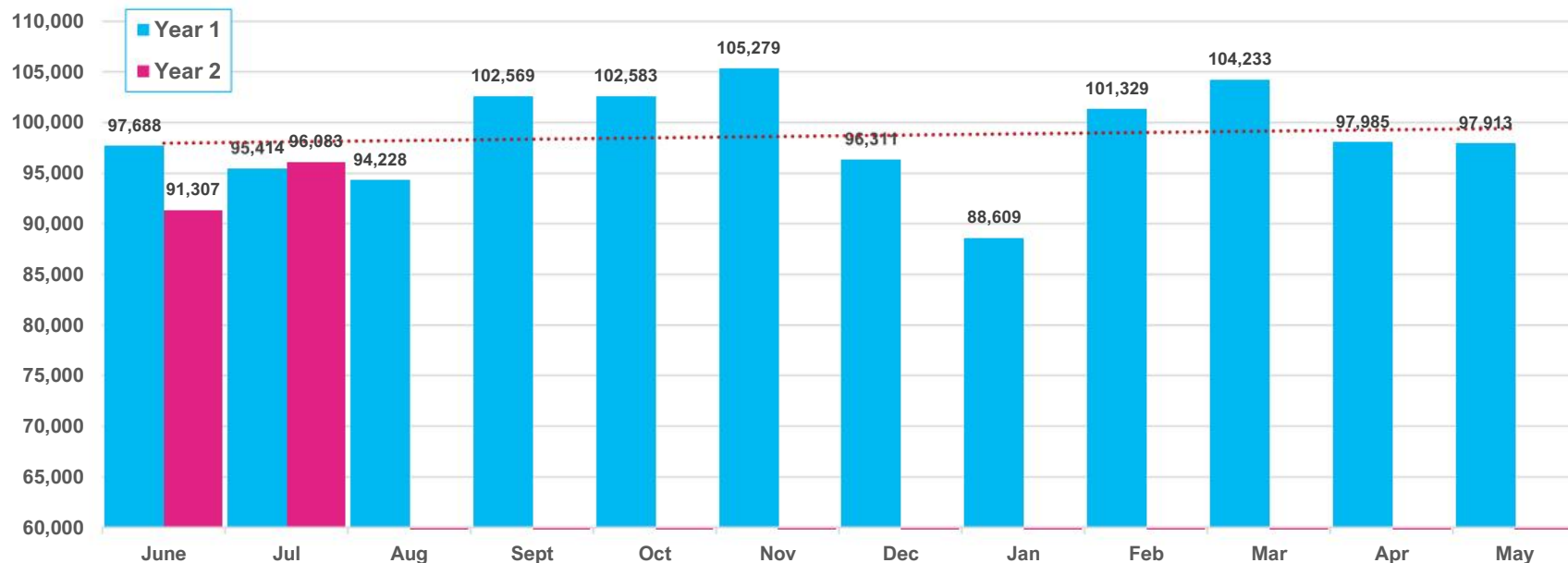
Daily charge applies 24 hours a day

£8 Cars
taxis
vans

£50 HGVs
coaches
buses

Is the Clean Air Zone creating the desired change?

DAILY AVERAGE UNIQUE VEHICLES

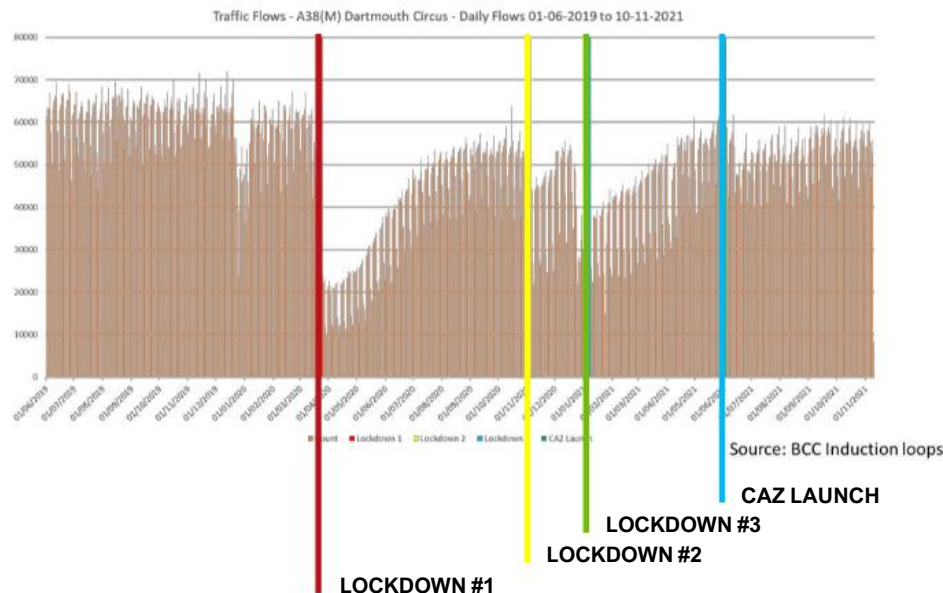


SOURCE: brumbreathes.co.uk/CAZdata

Is the Clean Air Zone creating the desired change?

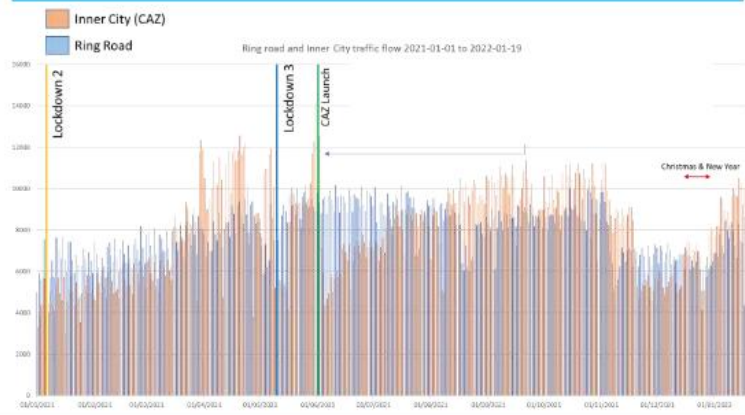
ALL TRAFFIC

DAILY TRAFFIC FLOWS (A38M)



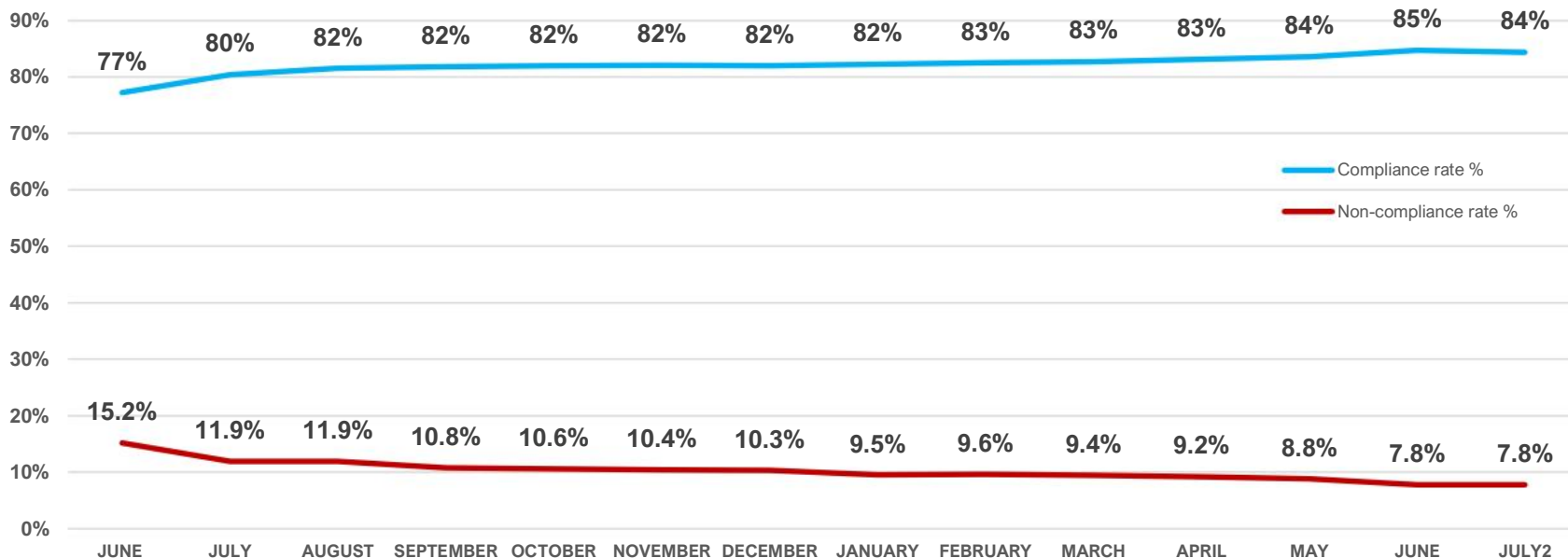
DAILY TRAFFIC FLOWS (A38M AND RING ROAD)

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)

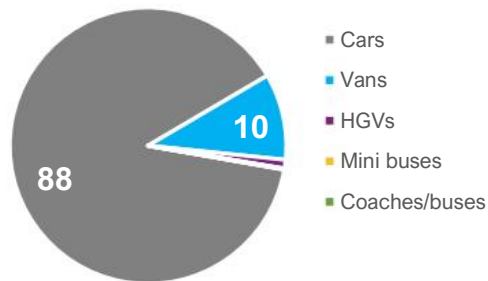


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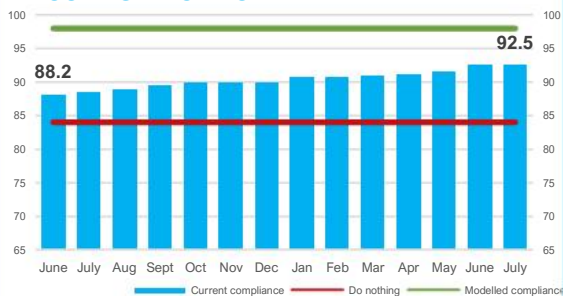
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Is the Clean Air Zone creating the desired change?

COMPOSITION OF THE FLEET



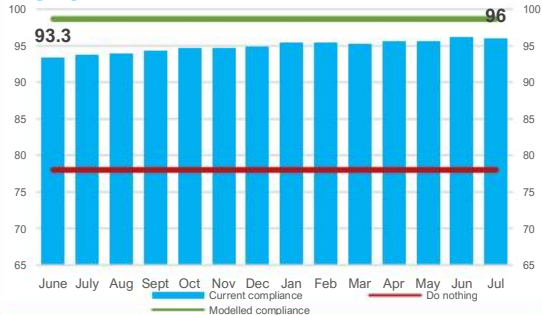
PASSENGER CARS



LGVs (VANS)



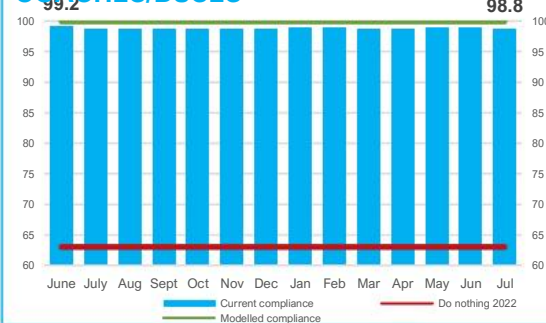
HGVs



MINI BUSES



COACHES/BUSES

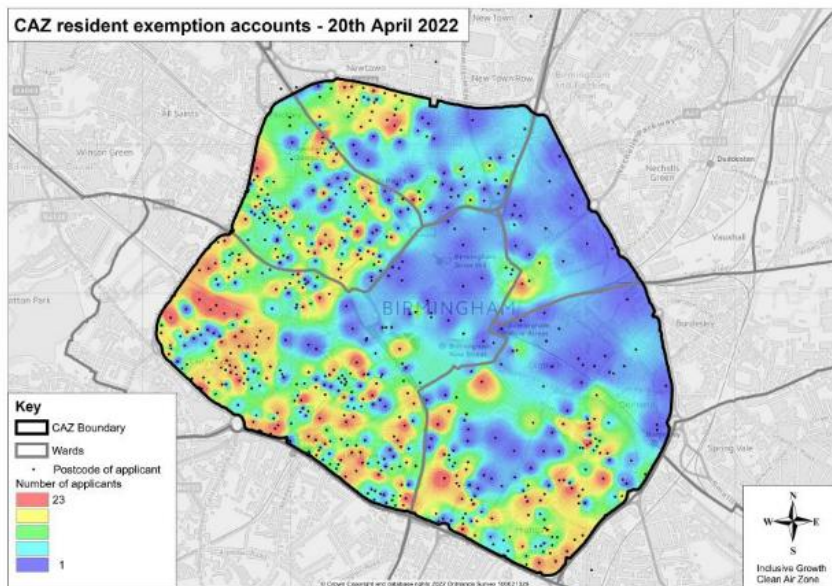


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The journey to a clean air city: supporting change

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**

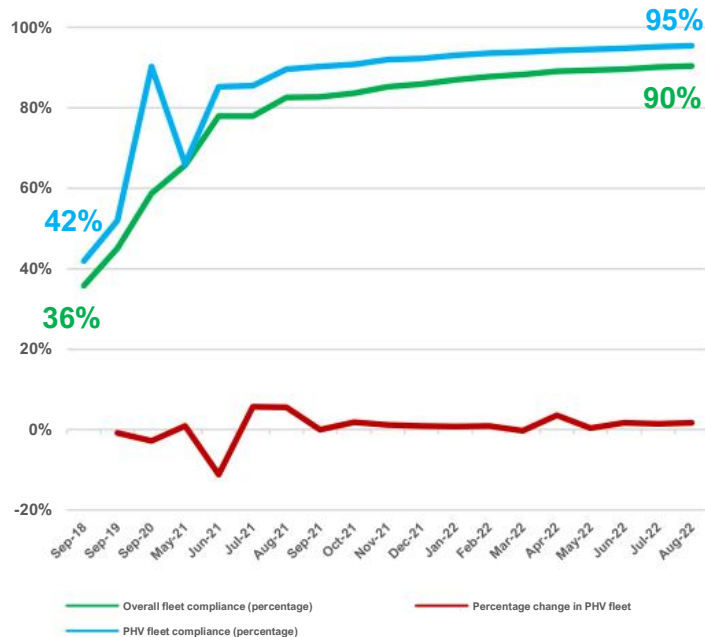


SOCIAL MEDIA

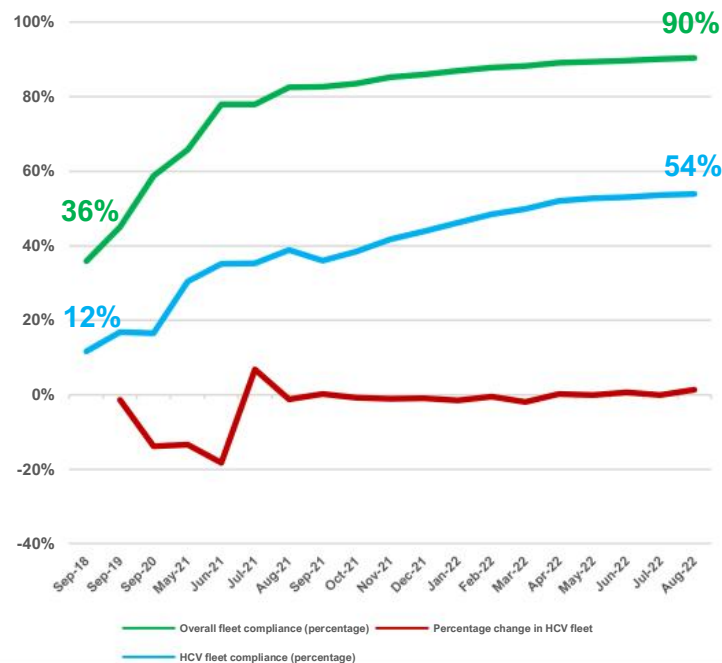
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The journey to a clean air city: supporting change

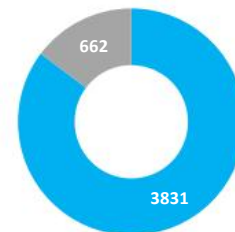
PRIVATE HIRE VEHICLES



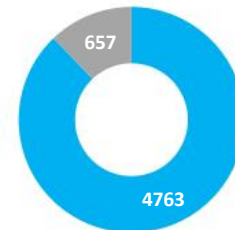
HACKNEY CARRIAGE VEHICLES



JUNE 2021



JUNE 2022



■ PHV - all vehicles
■ HCV - all vehicles

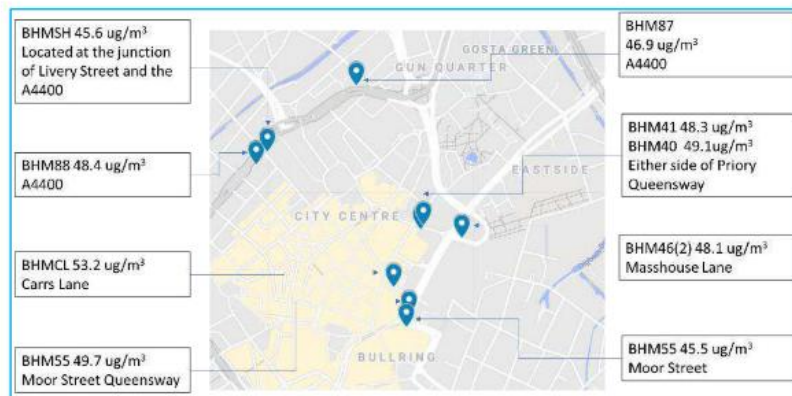
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Is the Clean Air Zone creating the desired change?

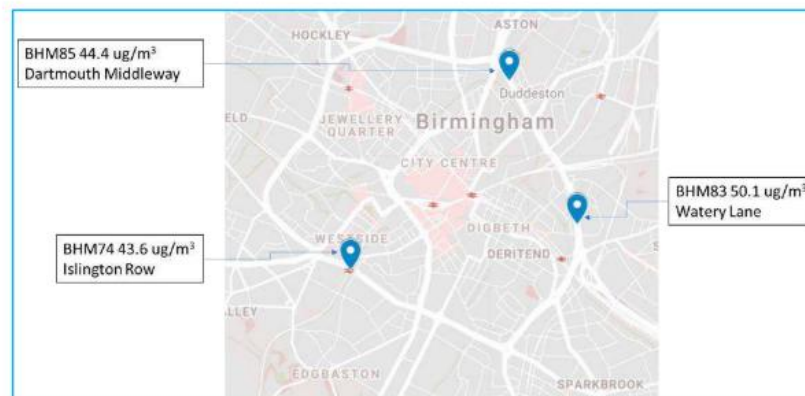
TRACKING CHANGES IN THE LEVELS OF NITROGEN DIOXIDE

	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

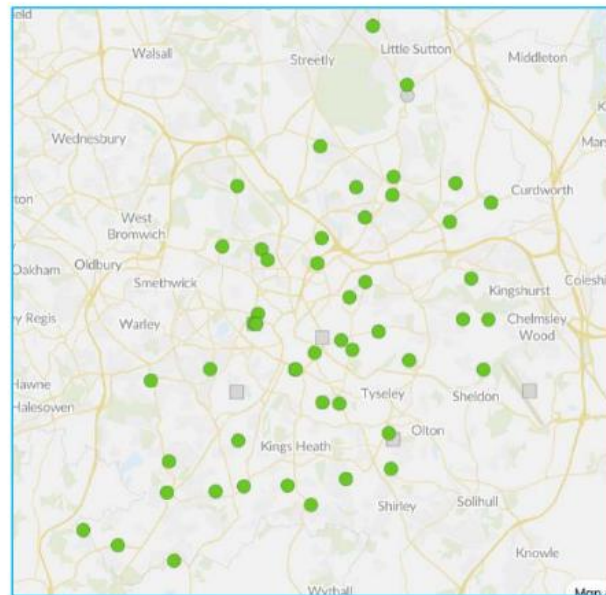
PLEDGES

- 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

Utilisation of Clean Air Zone revenues

Measures that support the delivery of the transport plan

Project(s) supported:

- **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)

Allocation approved by Cabinet: 17 March 2020

UNIVERSITY RAIL STATION

- The proposed scheme is to create a facility with sufficient capacity to improve safety and reduce efficiency problems and to enable the growth detailed within the University Hospital's Masterplan, as well as support the successful delivery of 2022 Commonwealth Games (CWG)
- A new station building will provide improved capacity and safety to help to promote the area's growth into a nationally significant hub for learning, at the forefront of medical research especially, creating employment opportunities and improving Birmingham's educational services.
- The immediate area around the station is the second largest employment site in Birmingham outside the city centre, and is part of the Selly Oak Green Travel District (GTD), promoting the use of active modes (walking and cycling) in local travel.
- The GTD vision is for Districts with less congestion, less pollution, fewer accidents, and healthier, safer, more productive communities.
- Modal shift benefits are predicted to increase to £1.8m by 2040 as a result of the scheme, (modal shift from the car to public transport - including car trips to/from the area around the station through or close to the CAZ boundary, from the north/north west of the city). These benefits include improvements to local air quality, reduced greenhouse gas emissions, reduced noise, traffic congestion relief, infrastructure savings, and reduced accidents.



Visualisation of design for the University train station upgrade



Upgrades to stations on the Camp Hill line

Utilisation of Clean Air Zone revenues

Measures that support the delivery of the transport plan

Project(s) supported:

- 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)

Allocation approved by Cabinet: 17 March 2020

CAMP HILL RAIL STATIONS

- The Camp Hill Line rail services and proposed new stations at Moseley, Kings Heath and Hazelwell are also being promoted through the WMRP and will directly connect labour markets to new jobs.
- The stations will help promote the use of public transport and, lead to better connectivity between Birmingham's local economic centres with better access to the city centre, supporting further economic growth in the region by directly connecting existing and new homes and jobs.
- The new stations are supported in the Birmingham Development Plan (BDP) and the draft BTP, and will directly serve 58,000 residents, will maximise the opportunity to serve new housing and jobs identified in the BDP - including but not limited to the City Centre Enterprise Zone and the HS2 Curzon station.
- The total cost of the scheme is expected to be £52.178m - with the contribution from Clean Air Zone revenues being £5.218m.



Visualisation of design for the University train station upgrade



Upgrades to stations on the Camp Hill line

Utilisation of Clean Air Zone revenues

Measures that support the delivery of the transport plan

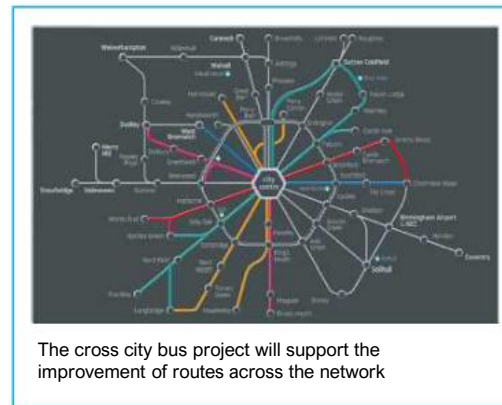
Project(s) supported:

- 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)**

Allocation approved by Cabinet: 17 March 2020

CROSS CITY BUS

- The Government announced funding for the West Midlands to make buses faster and more reliable as part of A Better Deal for Bus Users guidance. The funding, for over £24 million in bus priority measures including new bus lanes, bus gates, shelter upgrades and junction improvements, is focused on Birmingham city centre and links connecting to the south and west of Birmingham and Dudley.
- The reintroduction of Cross-City buses will provide improved penetration and accessibility by public transport in the city centre, helping to create a more sustainable city, decoupling growth and pollution and therefore contributing to the success of the CAZ and the Route to Zero Carbon aspirations.
- Cabinet is therefore recommended to approve a funding contribution of £4.225 m from the CAZ net proceeds, as part of the total £28.5 million package of new bus priority measures, benefitting over 73 million passengers per year.
- The Cross-City Bus measures would be delivered by Transport for West Midlands (TfWM), in partnership with the City Council as Highway Authority for Birmingham.
- The work is split into six different packages



Utilisation of Clean Air Zone revenues

Supporting walking and cycling

Project(s) supported:

- City centre pedestrianisation and public realm improvements (£8.395m)

Allocation approved by Cabinet: 19 January 2021*

PUBLIC REALM IMPROVEMENTS

- Phase 1 deliverables include:
 - Victoria Square public realm improvements;
 - Colmore Row/Waterloo Street public realm improvements;
 - River Fountain – repair and reinstatement as a fountain;
 - Permanent Hostile Vehicle Mitigation (HVM) at seven locations across the city centre.
- The public realm work is intended to support walking and cycling through the city centre and create available space for outdoor tables and chairs to support economic recovery and growth.
- The scheme will create high-quality walking and cycling routes in a daytime pedestrianised environment, helping to support environmental and climate change policies in advance of the Commonwealth Games.
- Phase 1 of the City Centre Public Realm scheme at a total estimated capital cost of £12.395m, funded from Transforming Cities Fund (£4.000m) and Clean Air Zone revenues.

*NOTE: Decision was called in. Final decision was end of January 2021

Utilisation of Clean Air Zone revenues

Measures that support the delivery of the transport plan

Projects supported:

- CAZ funded transport and environment programme (£5.250m)

Allocation approved by Cabinet: 21 March 2022

TRANSPORT AND ENVIRONMENT PROGRAMME

- **Car Free School Streets** – Enhancing and expanding the existing CFSS programme providing a road safety and sustainable travel offer to schools. The attached update in response to a question from Cllr Hunt was due to go to Council this week but I assume that didn't happen as the meeting was cancelled.
- **20mph Area B3** – Building on existing 20mph areas delivered in inner parts of the city since 2015 by introducing measures in North Edgbaston, Winson Green, Soho, Handsworth and Lozells. A consultant has been appointed to develop the proposals to Outline Business Case which will include stakeholder consultation on which roads should be included in the 20mph area and which main roads should stay at 30mph.
- **Birmingham Cycle Revolution** – A new tranche of cycle measures continuing the BCR programme delivered since 2013 – this tranche will focus particularly on links in and across the city centre connecting to transport hubs and other key destinations. It is expected that a consultant will be procured shortly to develop the scheme to Outline Business Case.
- **Big Birmingham Bikes** – A further tranche of bike giveaways building on previous tranches delivered since 2015, including cargo bikes and adaptive bikes suitable for disabled people. Initial discussions have taken place with The Active Wellbeing Society with the intention of them procuring and distributing the bikes on the city council's behalf.
- **Expansion of the schools air quality monitor programme** - The expanded programme will see engagement with all Birmingham City Council schools to make the offer of an air quality monitor to every school in the city. The benefits will be to increase engagement with schools, students and parents on the risks of air pollution and to inform on the quality of the air at all schools in Birmingham, focussing on a range of pollutants and facilitating our understanding of air quality across the wider city area.



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