

BRUM BREATHES



Birmingham's journey to becoming a clean air city

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1 DECEMBER 2021



Making a positive difference every day to people's lives



The impact of poor air quality

Around

1000

EARLY DEATHS

Linked to man made air pollution

LINKED TO

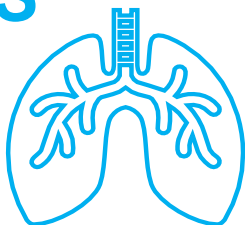
Heart disease
Diabetes
Asthma
Obesity
Cancer
Dementia

Still births
Infant deaths
Low birth weight
Organ damage
Premature deaths

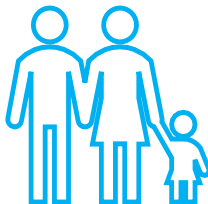
CHILDREN IN
**HIGH
POLLUTION
AREAS**

x4

More likely to
have reduced
lung function



**AFFECTS &
DEPRIVED
VULNERABLE**
areas most



VEHICLE EMISSIONS

80%

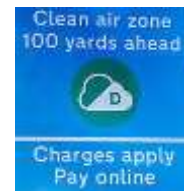
of roadside nitrogen
dioxide comes from
road transport

46%

of roadside NOx
emissions in the city
are from diesel cars

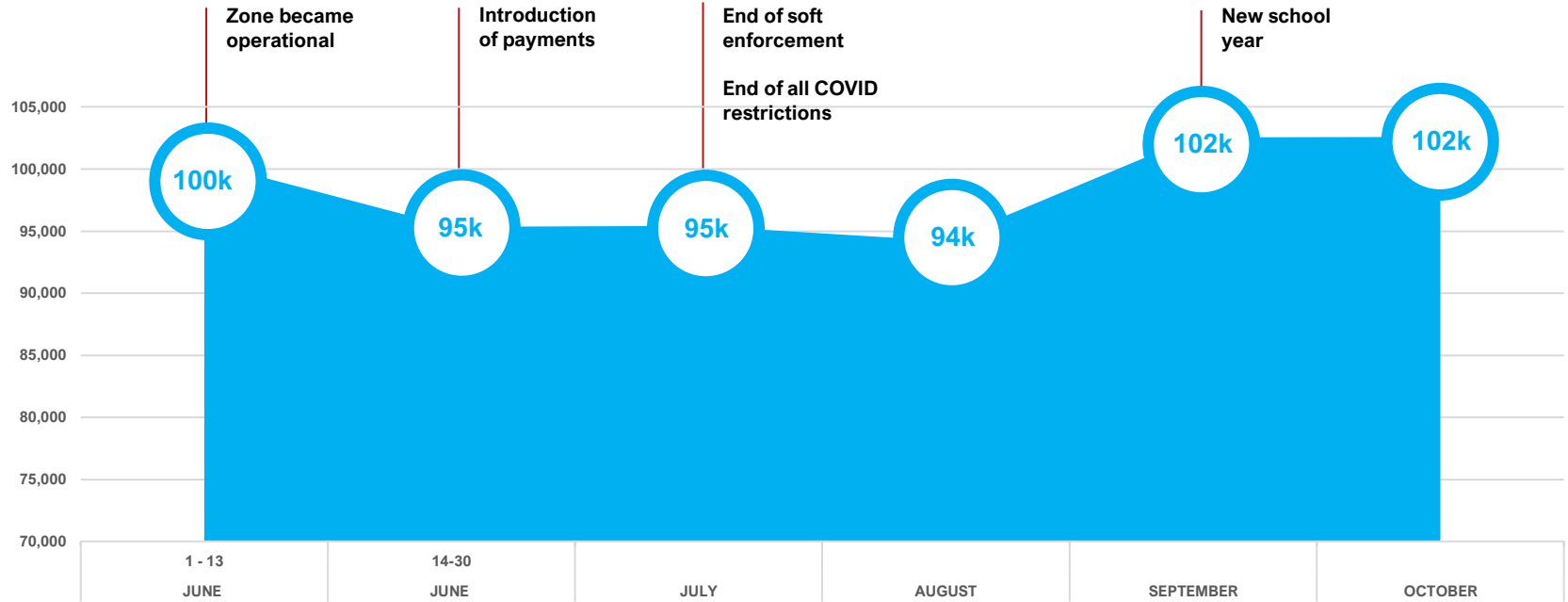
Clean Air Zone enforcement

- The geographic extent of the CAZ is confined by the Ring Road (A4540).
- All vehicles that enter the city centre are captured via Automatic Number Plate Recognition (ANPR) Cameras



How is the Clean Air Zone performing?

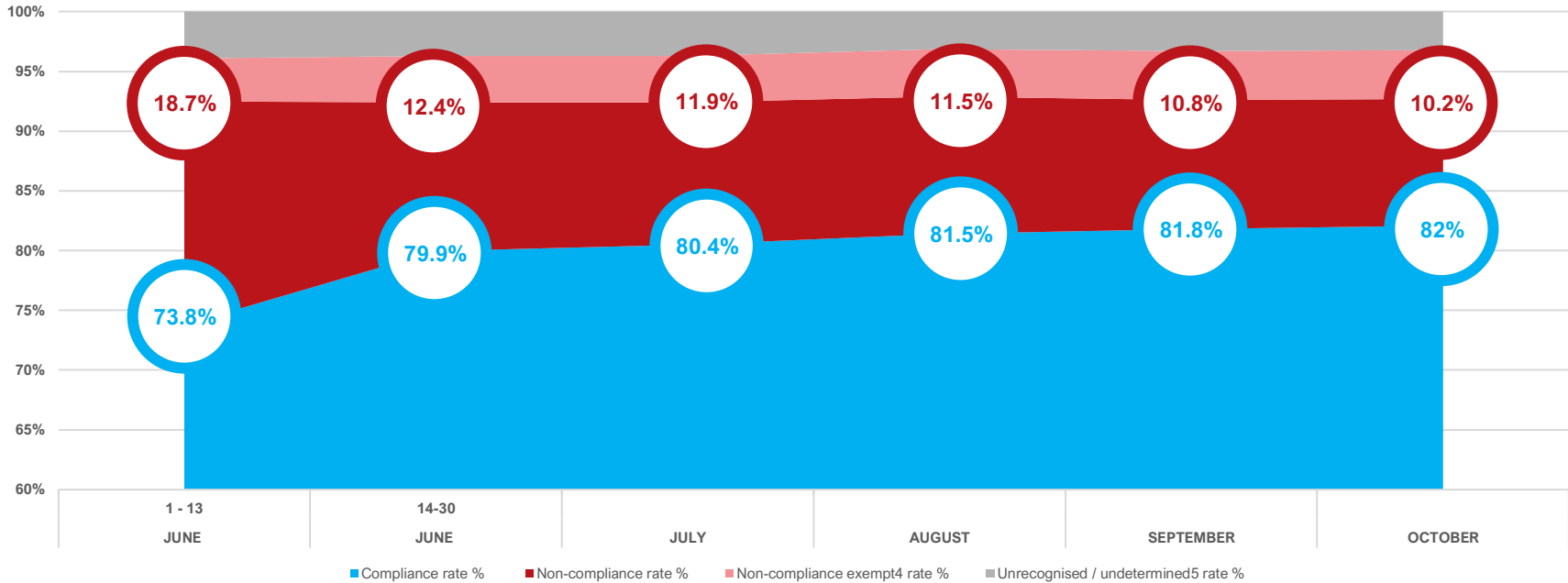
DAILY AVERAGE VOLUME OF UNIQUE VEHICLES



SOURCE: CAZ monthly factsheets June – October 2021 (brumbreathes.co.uk)

How is the Clean Air Zone performing?

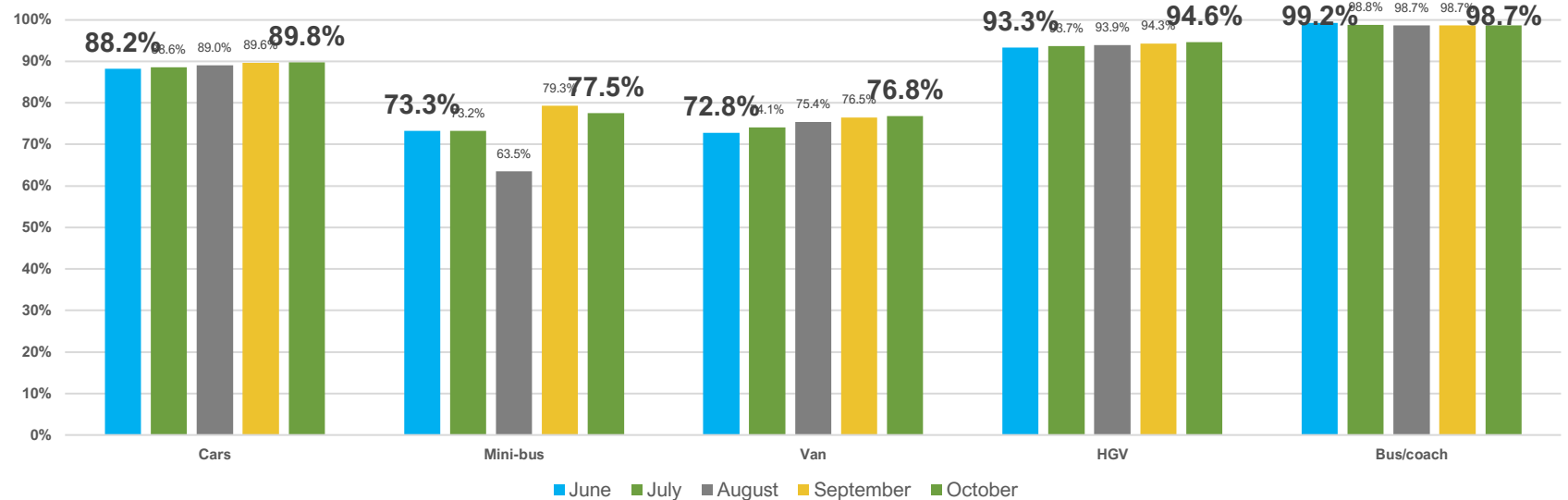
THE PERCENTAGE OF COMPLIANT v NON COMPLIANT VEHICLES (DAILY AVG)



SOURCE: CAZ monthly factsheets June – October 2021 (brumbreathes.co.uk)

How is the Clean Air Zone performing?

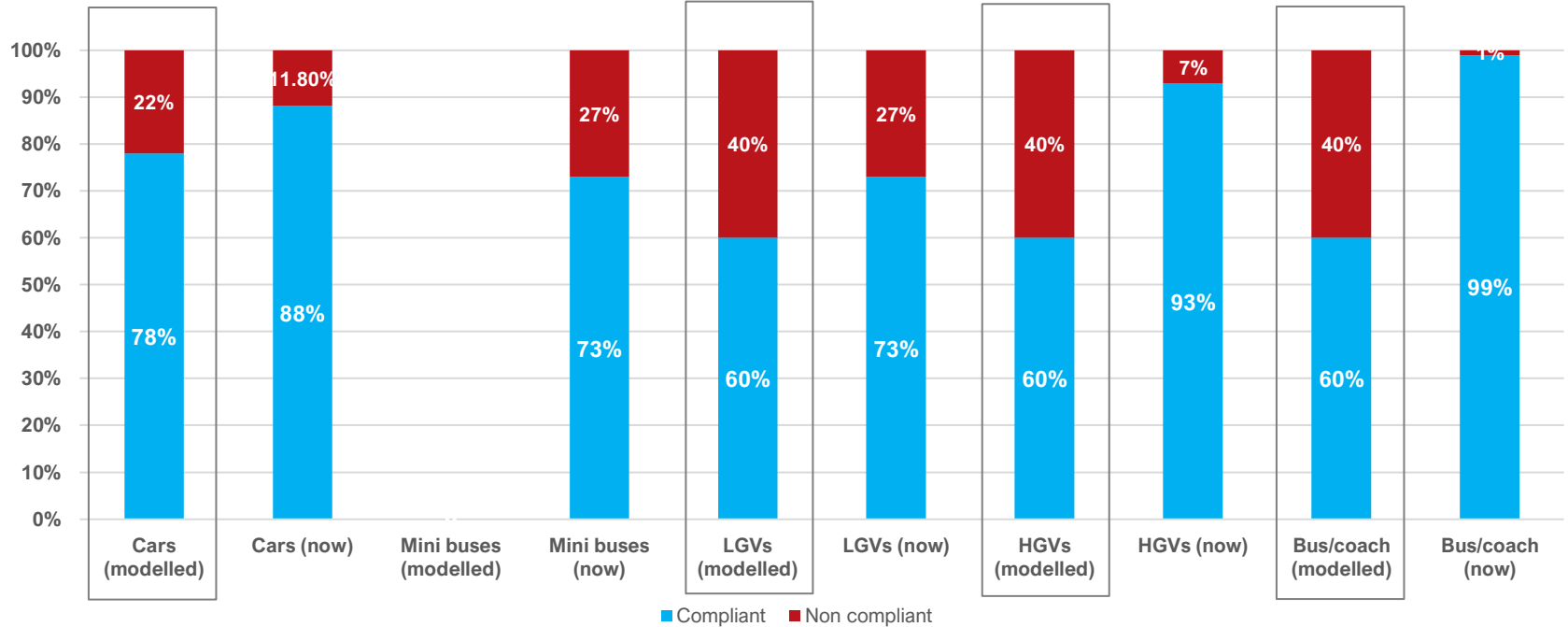
COMPLIANCE BY VEHICLE CATEGORY (DAILY AVG)



SOURCE: CAZ monthly factsheets June – October 2021 (brumbreathes.co.uk)

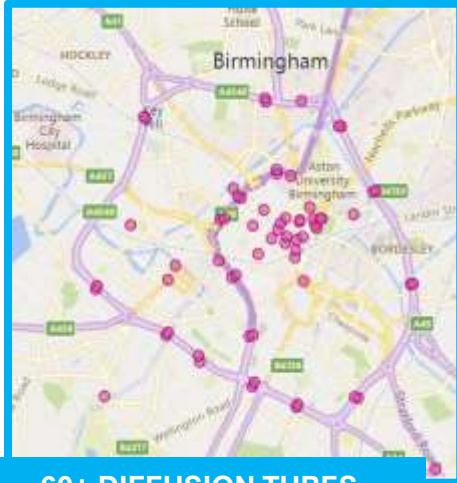
The impact of the Clean Air Zone

Unique vehicle entrants by category

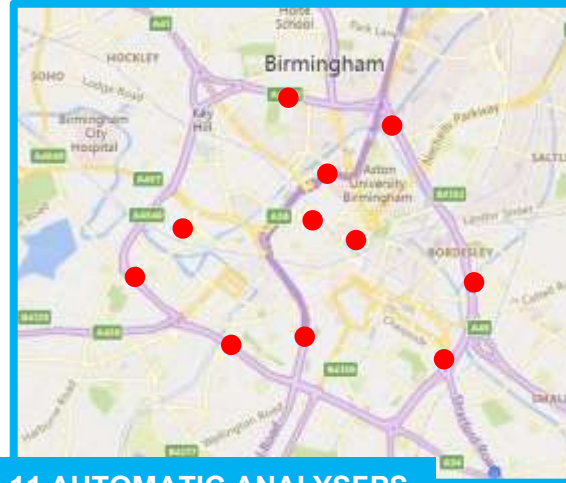


Monitoring air quality in Birmingham

THE CITY HAS A LARGE NETWORK OF MONITORING EQUIPMENT ACROSS THE CITY CENTRE AND RING ROAD.



60+ DIFFUSION TUBES



11 AUTOMATIC ANALYSERS

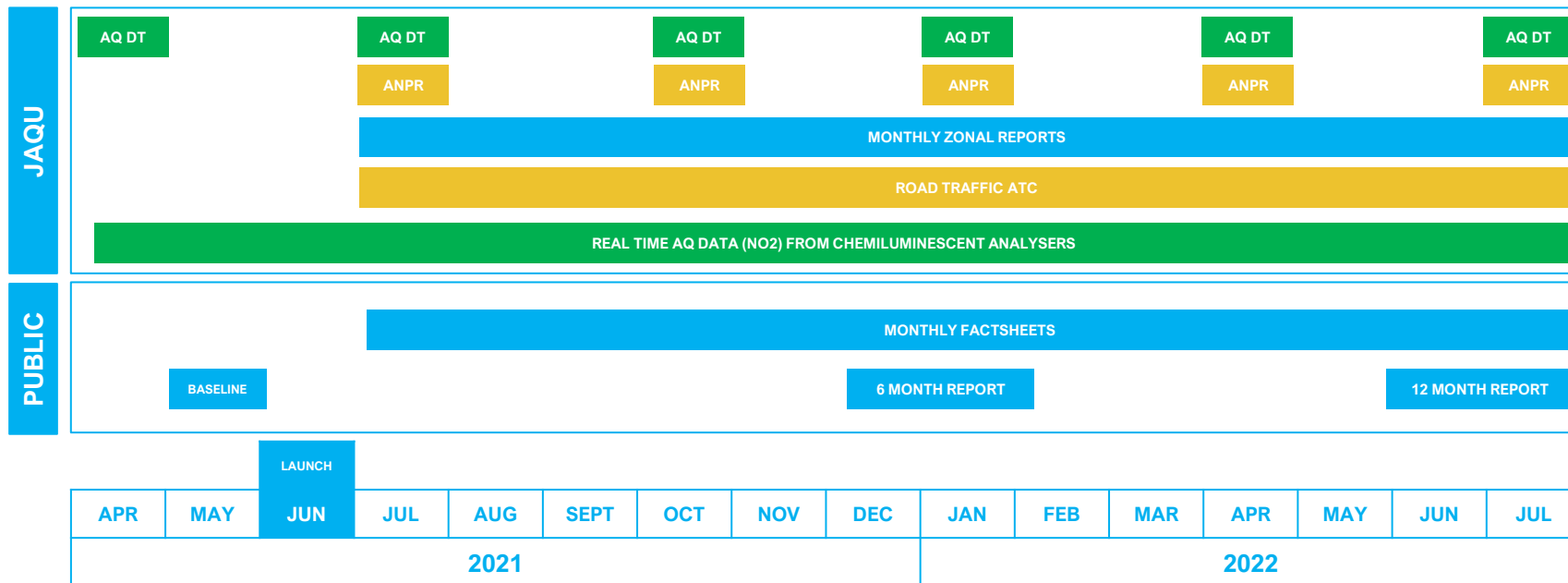


15 INDICATIVE SENSORS

WWW.BIRMINGHAMAIRQUALITY.CO.UK

Key outputs of the monitoring and evaluation programme

TIMELINE TO MID 2022



Other cities are using similar schemes to address the air quality challenge

CLEAN AIR ZONES

LIVE	2021	2022	BEYOND
<p>YORK Non charging CAZ January 2021</p> <p>BATH CAZ C March 2021</p> <p>BIRMINGHAM CAZ D 1 June 2021</p> <p>PORTSMOUTH CAZ B 29 November 2021</p>		<p>BRADFORD CAZ C January 2022</p> <p>BRISTOL CAZ D</p> <p>G. MANCHESTER CAZ C</p> <p>SHEFFIELD CAZ C</p> <p>NEWCASTLE CAZ C</p>	<p>LIVERPOOL CAZ TBC</p>

OTHER SIMILAR CHARGING SCHEMES

<p>LONDON ULEZ April 2019</p> <p>ULEZ expansion 25 October 2021</p>	<p>OXFORD ZEZ 2021</p>	<p>GLASGOW LEZ</p> <p>EDINBURGH LEZ</p> <p>DUNDEE LEZ</p> <p>ABERDEEN LEZ</p>
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The Clean Air Zone as an enabler of change



Additional programmes supported by the Clean Air Zone team include:

- Significant expansion of the city's electric vehicle charging points
- Purchase of 20 hydrogen buses to encourage the adoption of the technology in the city
- Purchase of up to 50 electric hackney carriages to encourage adoption of this technology within the taxi fleet

A long term ambition for zero emissions

The council is committed to taking a leading role, playing its part, and working with individuals, communities, businesses, partners, and others across the city and region to act now on the causes and impacts of the climate emergency.

The ambition was set for the council and city to become net zero carbon by 2030. This is the city's 'route to zero' (R20).

