Commercial in Confidence

AIR QUALITY CHAMPIONS

Training session 2 - Air Quality in Hackney

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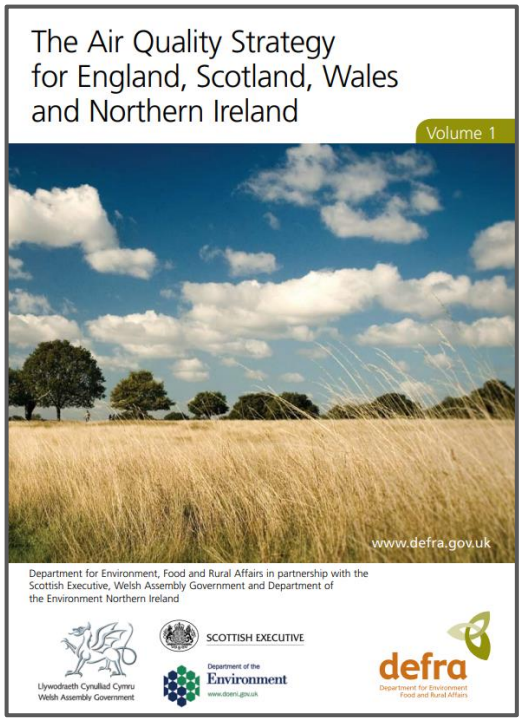
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SESSION OVERVIEW

- THE WIDER LEGISLATIVE BACKDROP
- HACKNEY´S AIR QUALITY ACTION PLAN 2021 - 2025
- OUR AIR QUALITY MONITORING NETWORK
- WHAT OUR DATA SHOWS
- OPPORTUNITIES TO GET INVOLVED

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LEGISLATIVE BACKDROP



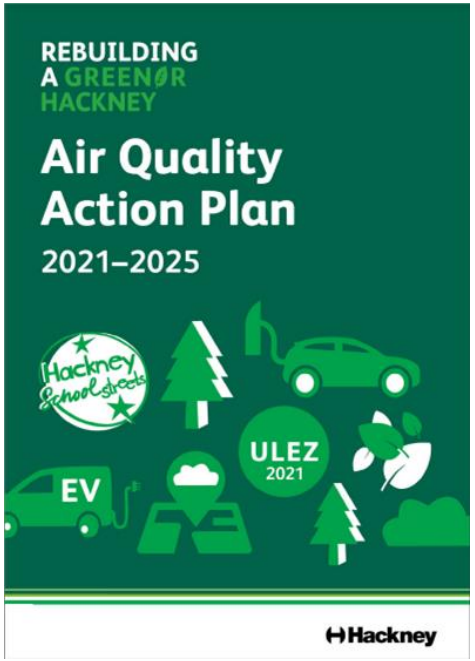
NATIONAL AIR QUALITY OBJECTIVES - TO PROTECT HUMAN HEALTH

	Exposure period	Objective ($\mu g/m^3$)	Achieve by
NO_2	Annual mean	40	Dec 2005
	Hourly mean	200 (not to be exceeded >18 times a year)	
PM10	Annual mean	40	Dec 2004
	24-hour mean	50 (not to be exceeded >35 times a year)	
PM2.5	Annual mean	20	*2020*

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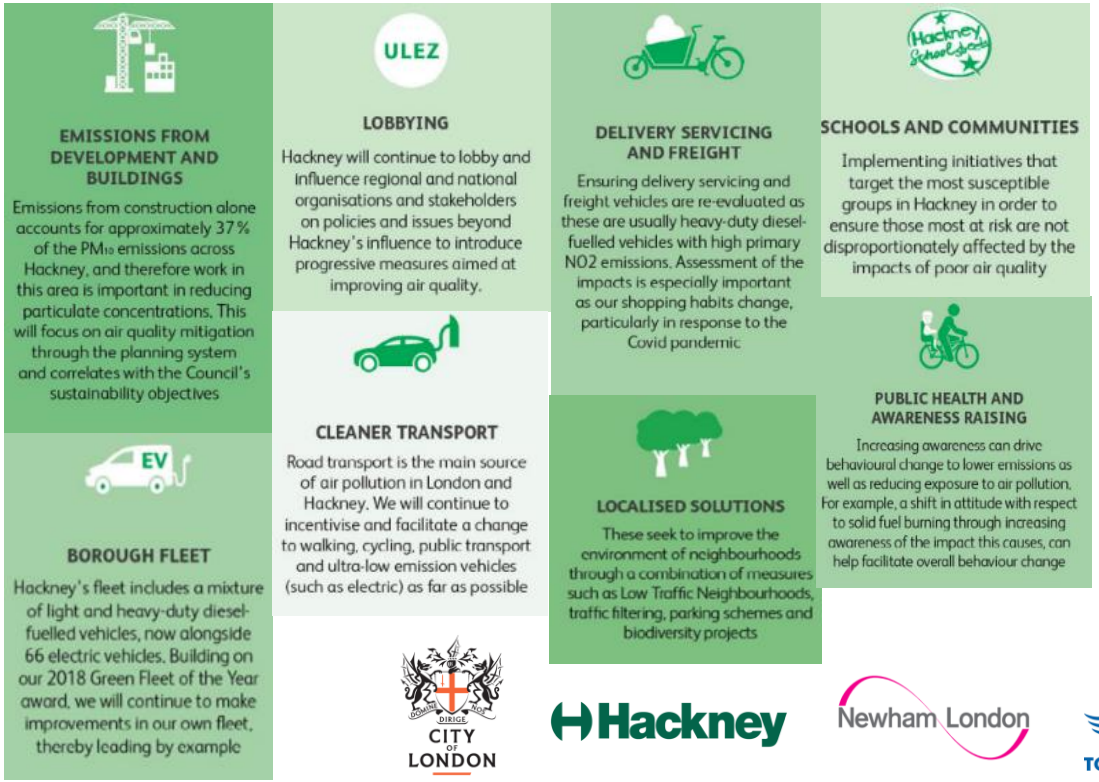
AIR QUALITY ACTION PLAN

- Hackney has recorded failures in meeting air quality objectives for both NO2 and PM10
- The whole borough has been declared an Air Quality Management Area since 2006
- The quality of our air has improved significantly over time… BUT exceedances of the long-term NO2 objective are still occurring.
- Hackney is committed to meeting the WHO's 2005 guidelines for PM10 and PM2.5 - which are **more** stringent than the current objectives.



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AIR QUALITY ACTION PLAN - ACTION AREAS



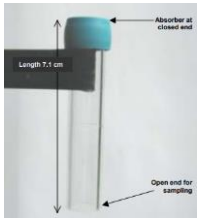
AIR QUALITY MONITORING

- Our monitoring network consisting of both automatic monitoring stations and diffusion tubes.
- Automatic monitoring stations collect data continuously. These units are maintained, serviced and calibrated to applicable standards by a specialist subcontractor.
- Automatic units are expensive (£50-60k)











- Diffusion tubes are changed monthly. The amount of pollutant is analysed and results are averaged.

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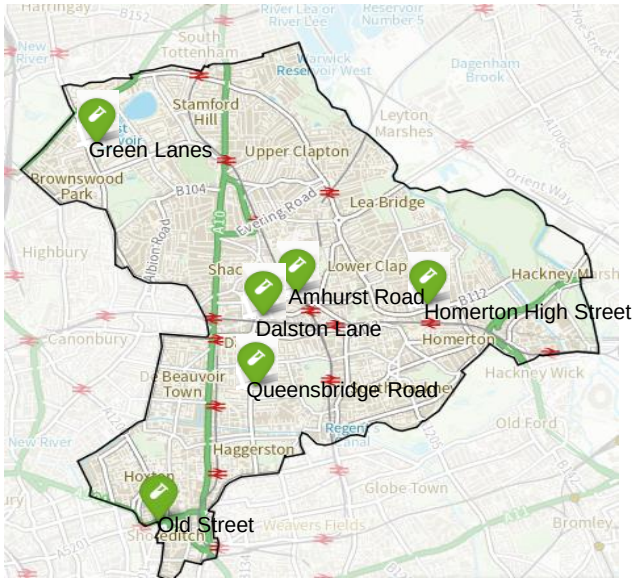
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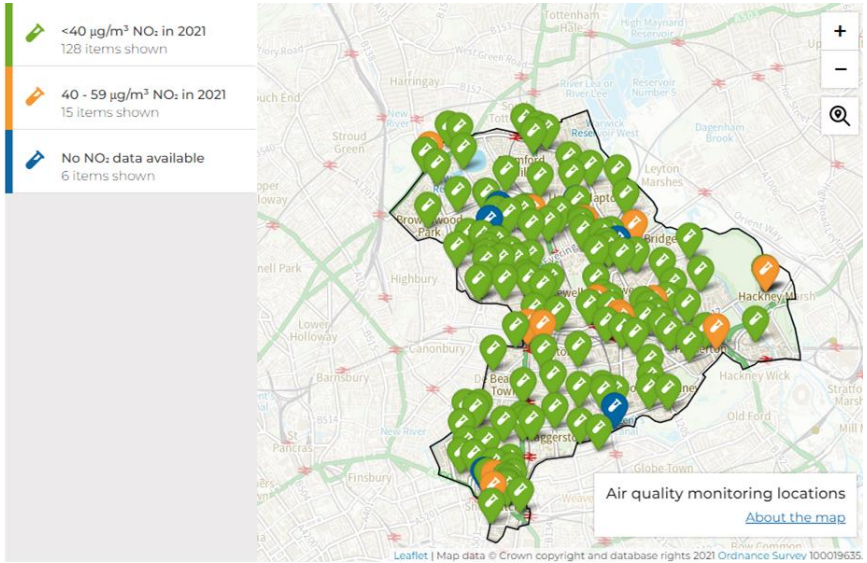
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AIR QUALITY MONITORING NETWORK - HACKNEY

- 2023 Automatic monitoring station map



- 2021 Diffusion tube monitoring location map



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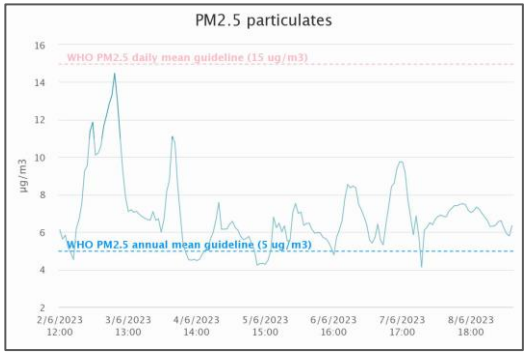
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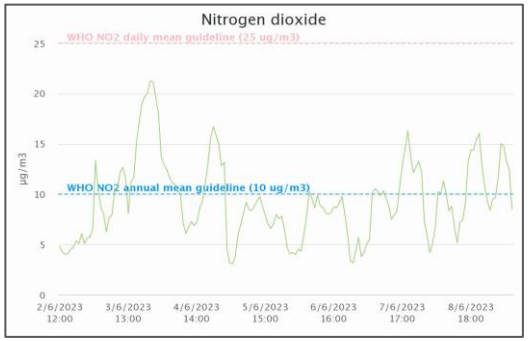
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AIR QUALITY MONITORING NETWORK BREATHE LONDON





Amhurst Road, Hackney

Sponsor: Mayor of London

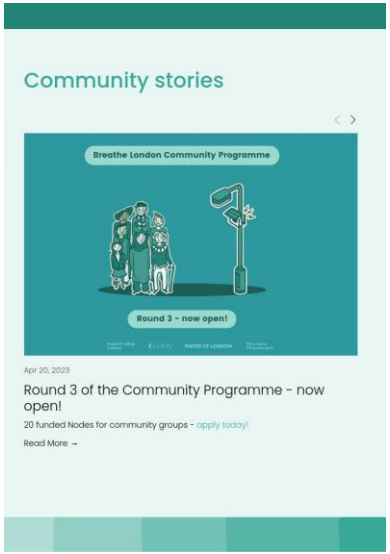
Organisation: Mayor of London

Installed: Thursday, September 30th 2021

The site is a kerbside location adjacent to a moderately busy road right in the centre of the borough of Hackney.
At this point, Amhurst Road is predominantly residential. The properties consist of a mix of residential blocks as well as some larger, older houses, many of which have been converted into separate residential units. Therefore, there will be a relatively high number of people in the area who may be affected by air pollution. Among these are the residents of the Downs Estate. The estate includes 210 homes and is managed by a Tenant Management Organisation. The TMO has been instrumental in delivering improvements to the homes and this has included planting and landscaping works. Locating a Breathe London Node on their doorstep provides an opportunity to help further the interests of







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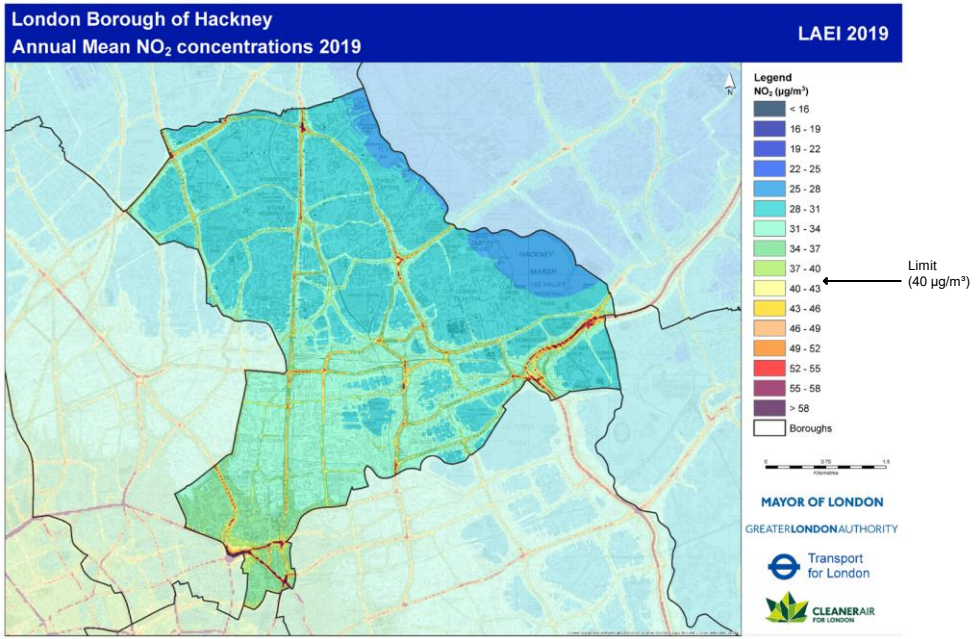
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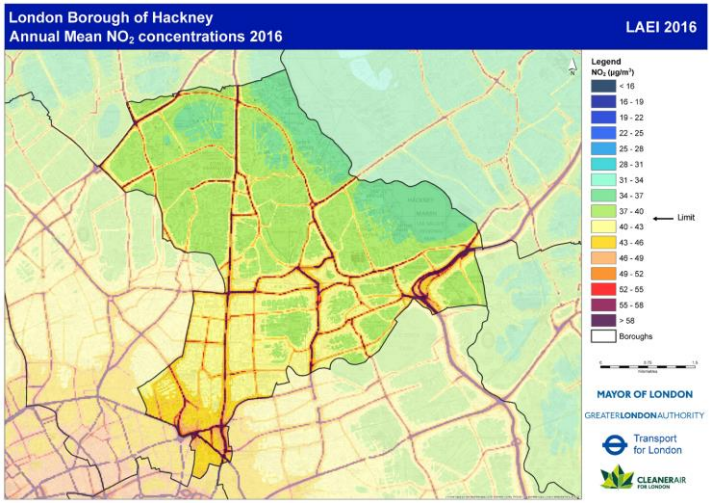
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ANNUAL EMISSION CONCENTRATIONS - NO2





https://data.london.gov.uk/dataset/london-atmospheric-emissions-inventory--laei--2019

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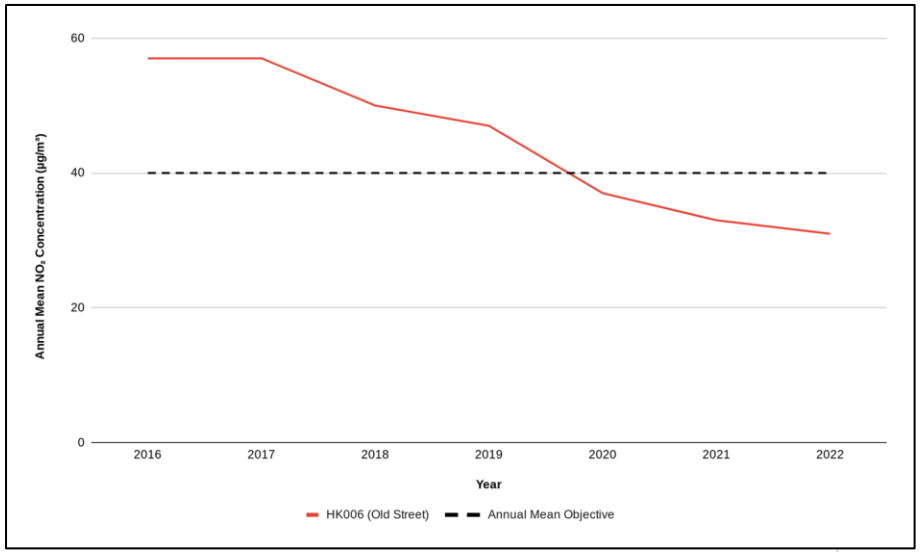
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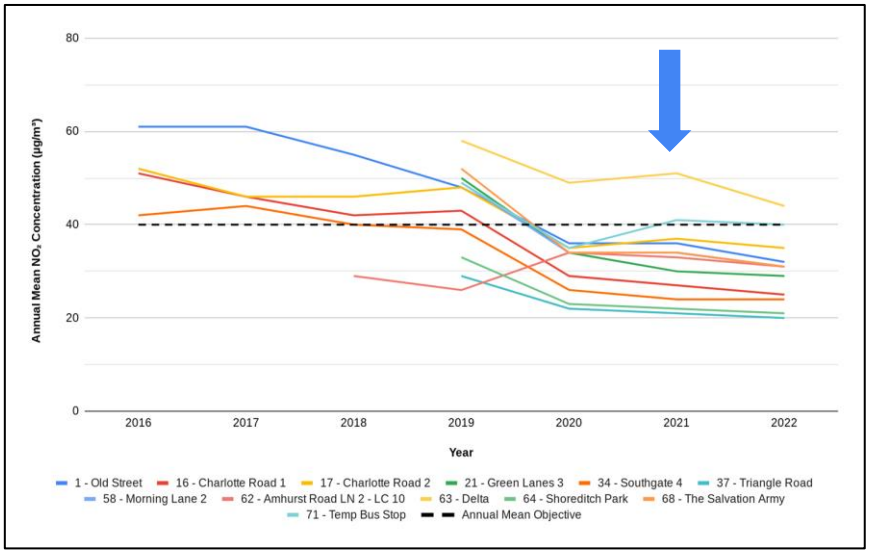
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MONITORING DATA - NO2 (2022 PREVIEW)

- Automatic monitoring - No exceedances
- Diffusion tube monitoring - 1 exceedance (Dalston Lane / Pembury circus jnc.)





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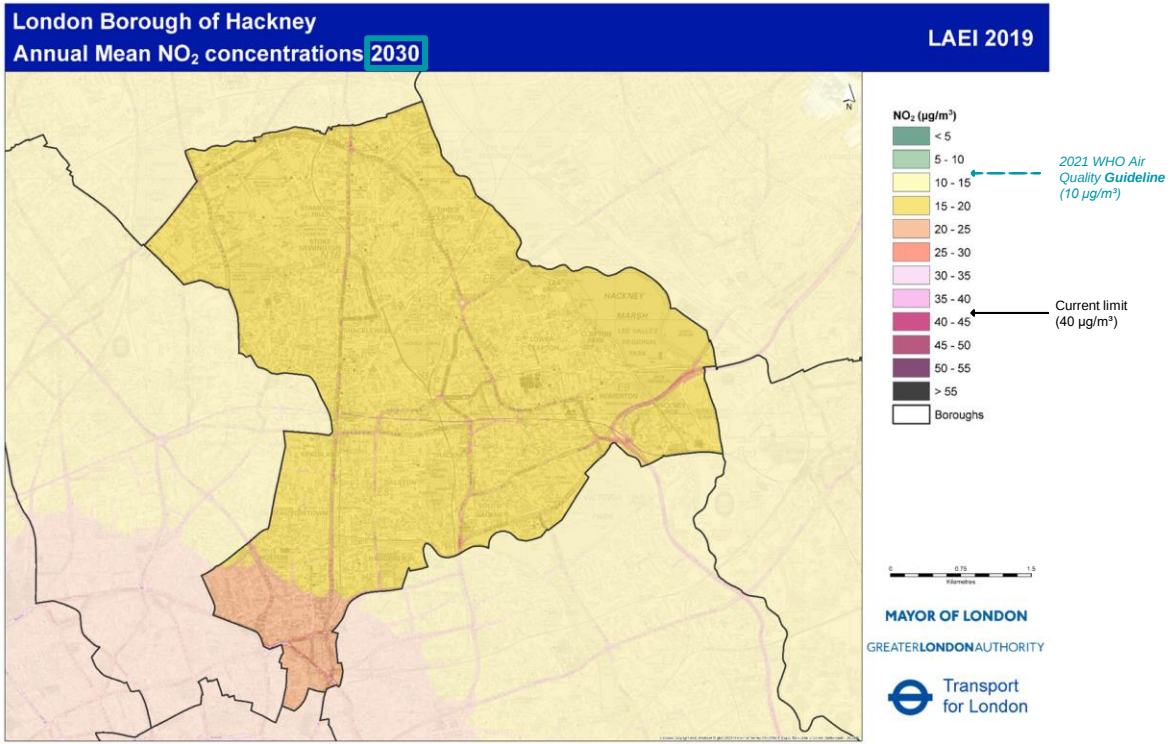
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FUTURE NO2 EMISSION CONCENTRATIONS



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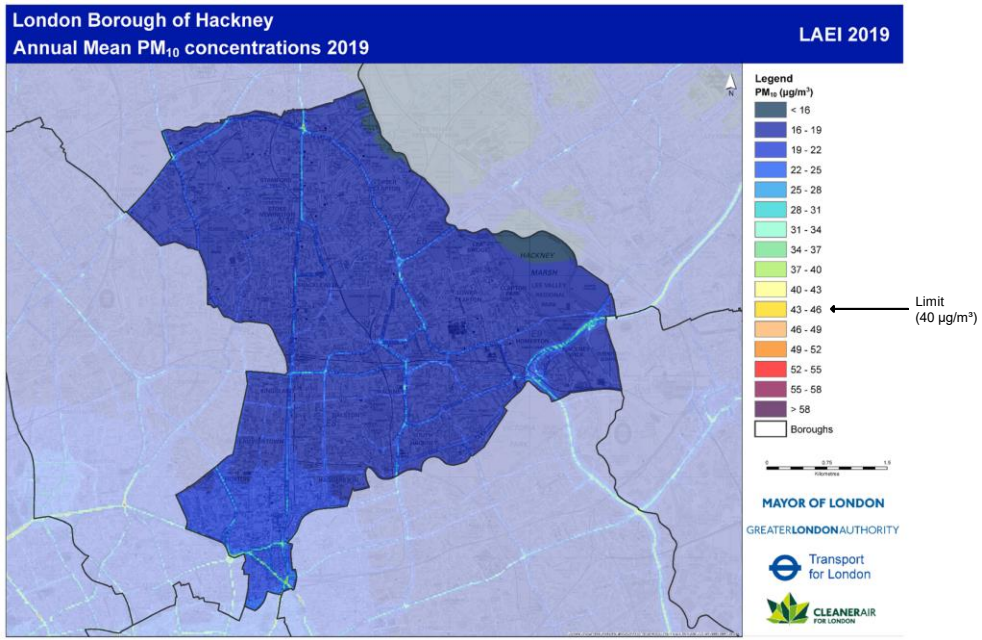
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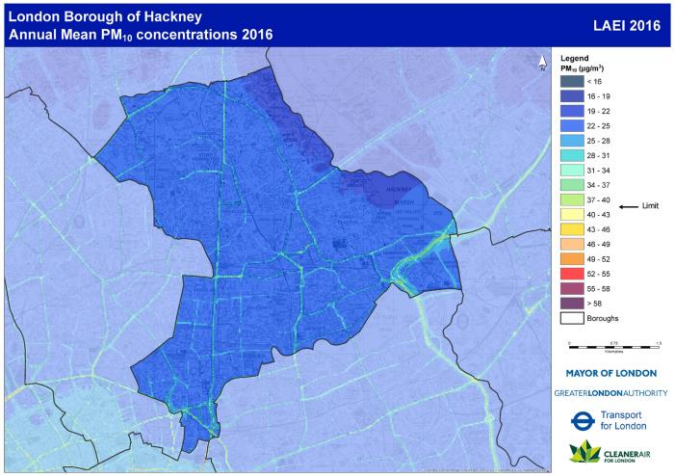
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ANNUAL EMISSION CONCENTRATIONS - PM10





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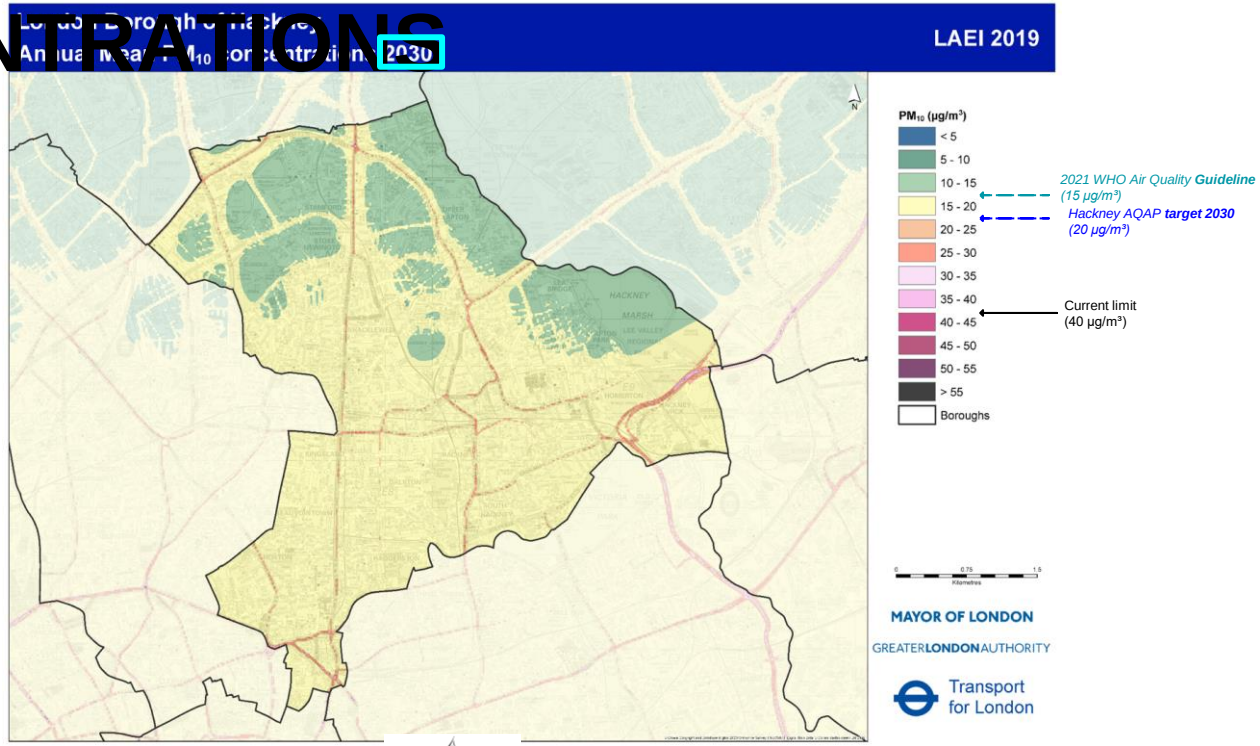
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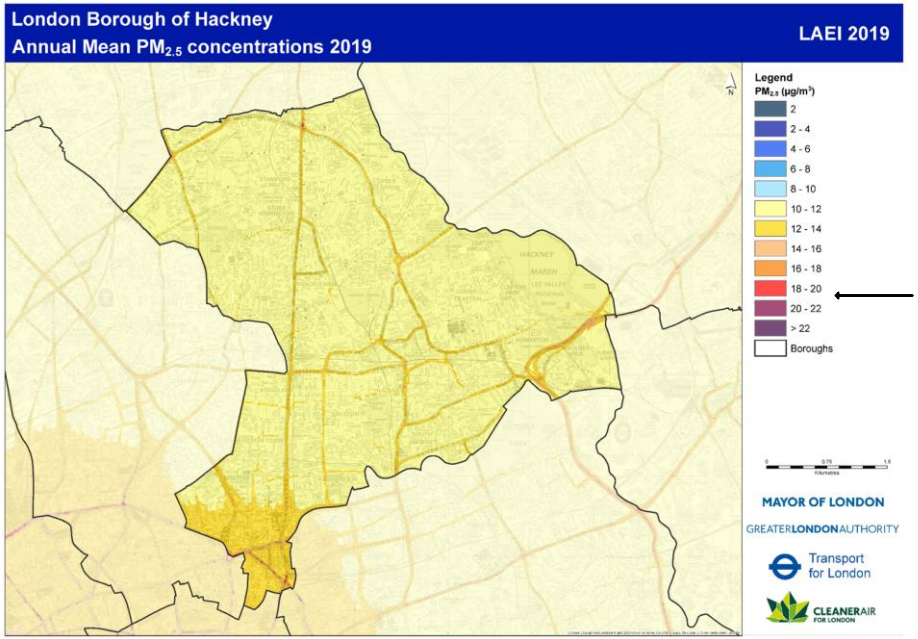
FUTURE PM10 EMISSION CONCENTRATIONS

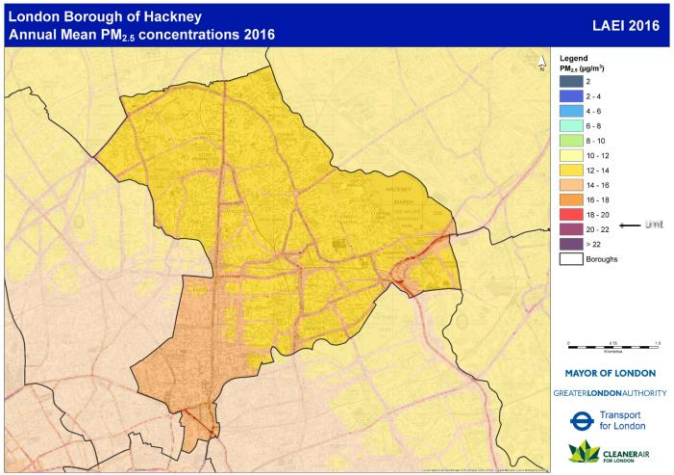


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ANNUAL EMISSION CONCENTRATIONS - PM2.5





https://data.london.gov.uk/dataset/london-atmospheric-emissions-inventory--laei--2019

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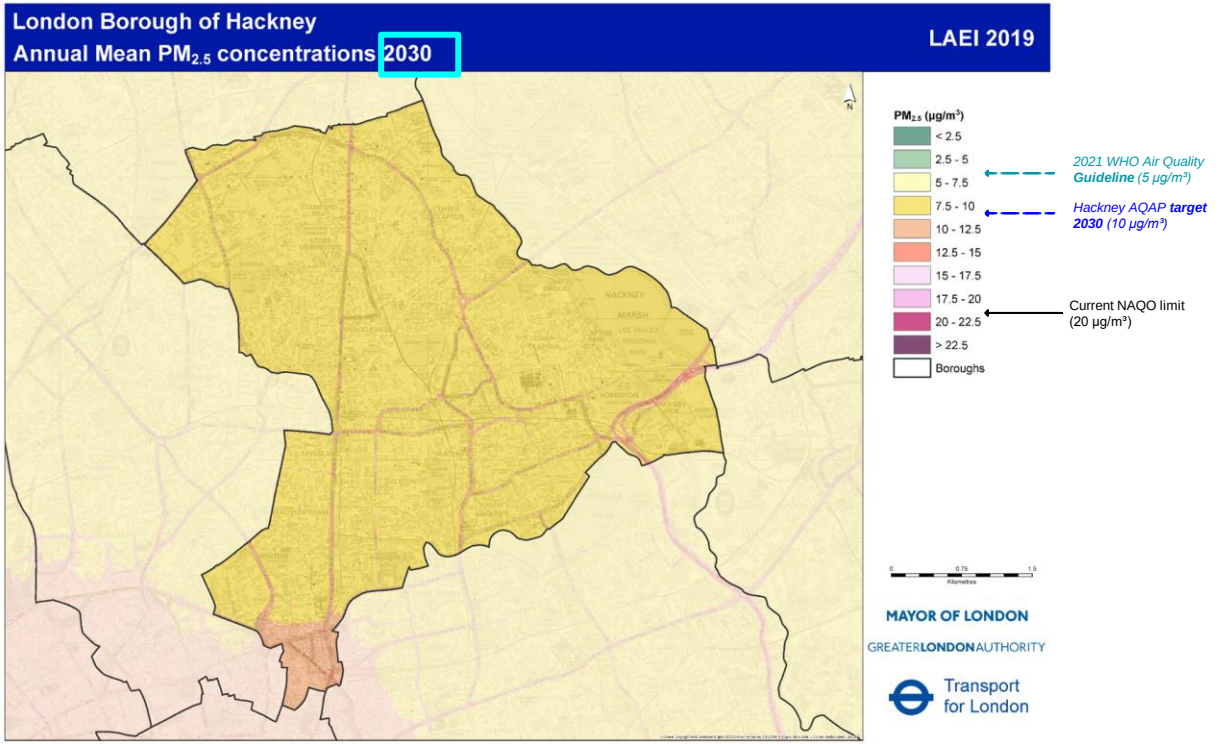
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FUTURE PM2.5 EMISSION CONCEN

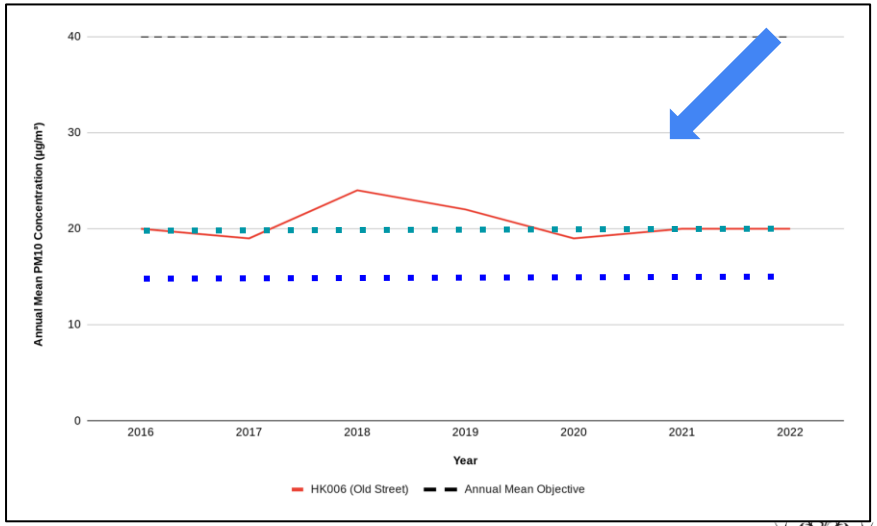


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MONITORING DATA - PM10 & PM2.5 (2022 PREVIEW)

- Automatic monitoring station data (Old Street monitoring station) shows compliance with National Air Quality Objectives for both PM10 & PM2.5.





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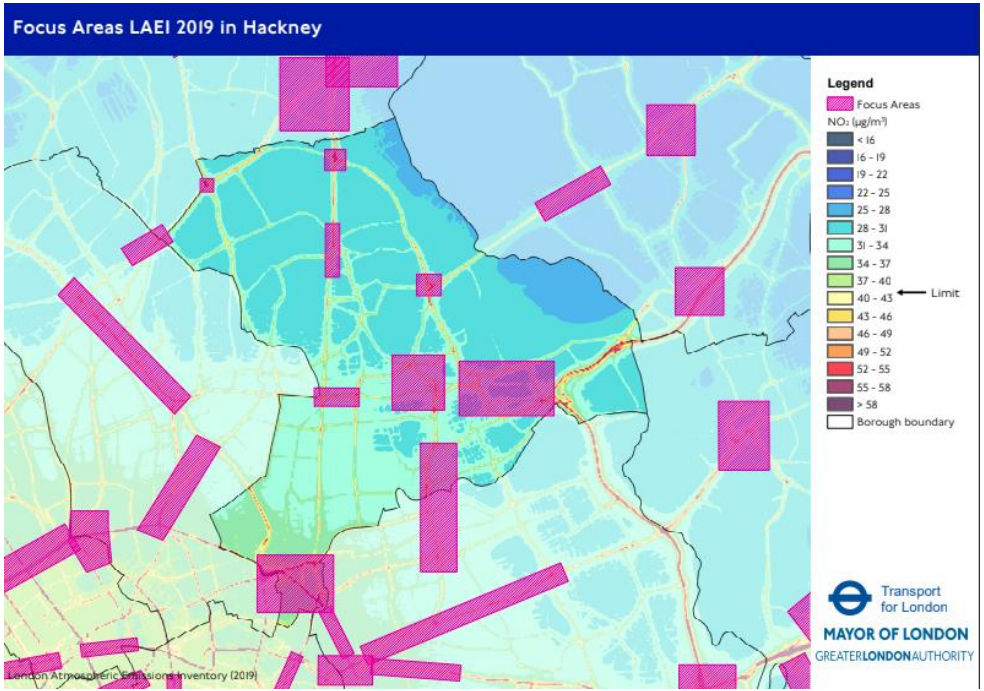
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AIR QUALITY FOCUS AREAS



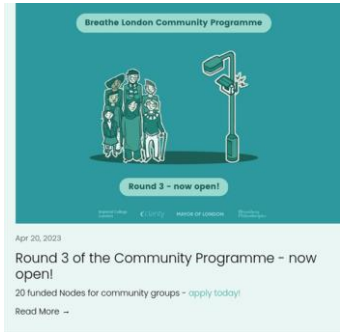
- Focus areas are areas where air pollution levels (of NO2) are exceeding the National Air Quality Objectives **AND** where there is a high population exposure.
- 8 of the 160 focus areas identified by the GLA (based on 2019's data) fall in Hackney. (In 2016 there were 186 areas).
- We expect a change (reduction) in our focus areas following next update.

https://data.london.gov.uk/dataset/london-atmospheric-emissions-inventory--laei--2019

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LOCAL CLEAN AIR PROJECTS

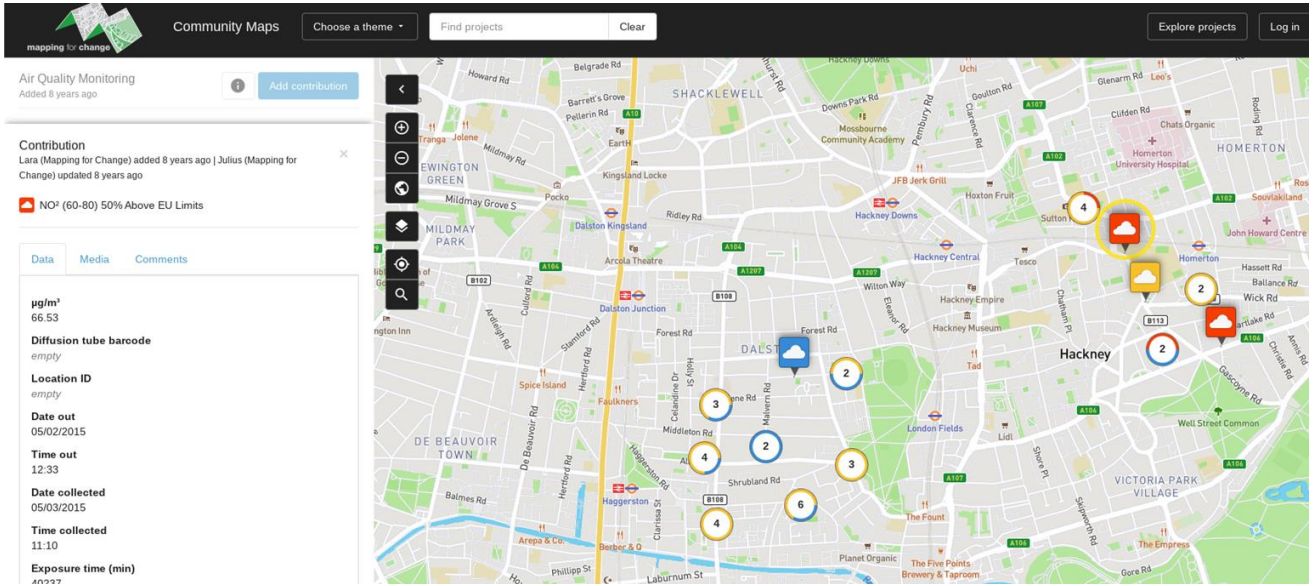




- Zero Emissions Network (ZEN) - Hackney, Tower Hamlets & Islington residents and businesses
  - Discounted or free: cycle training , bike repair, cargo bike testing, e-bike testing
  - EV or e-scooter initiatives (delivery drivers, workplaces)
  - Workplace grants (sustainable travel changes)
  - ZEN card holder also get discounts across ZEN business network
- Breathe London
  - Third and final round for community groups to apply for a fully funded air quality monitoring node.
  - Apply by 30th June!

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LOCAL CLEAN AIR PROJECTS



- Projects include supporting community or voluntary groups to document issues affecting them and their local area e.g. air quality. Map outputs help to visualise and analyse complex spatial information e.g. air quality

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