

#### Clean Air Better Business Final Stakeholder Meeting and Celebration Event

3 April 2019

Westminster City Hall, 64 Victoria Street.

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019



#### Clean Air Better Business - Agenda

- 1. Welcome and introductions
- 2. London Air Quality Network Update Andrew Grieve
- 3. Time To Breathe Campaign Matthew Holder
- 4. The Northbank Air Quality Update Alison Gregory
- 5. Victoria BID Air Quality Update David Beamont
- 6. Clean Air Better Business Summary Report Brendon Harper
- 7. Roundtable Updates All



#### London Air Quality Network

#### Andrew Grieve, Kings College London

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019

#### Andrew Grieve CABB Meeting 03/04/19

8

00

- Widget - Monitoring - Personal Monitoring - Anti-Idling - Parklets - Clean Air Routes
- Pedestrian Exposure Mapping



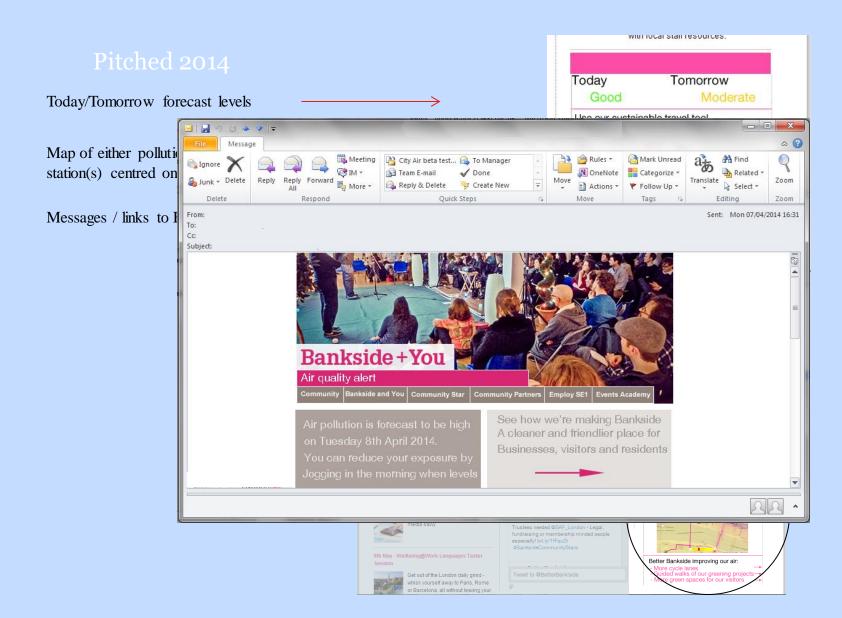


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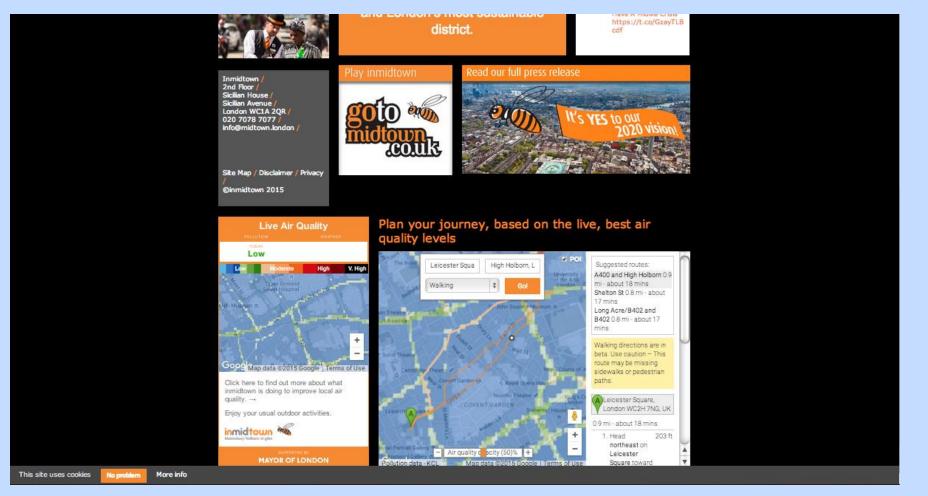




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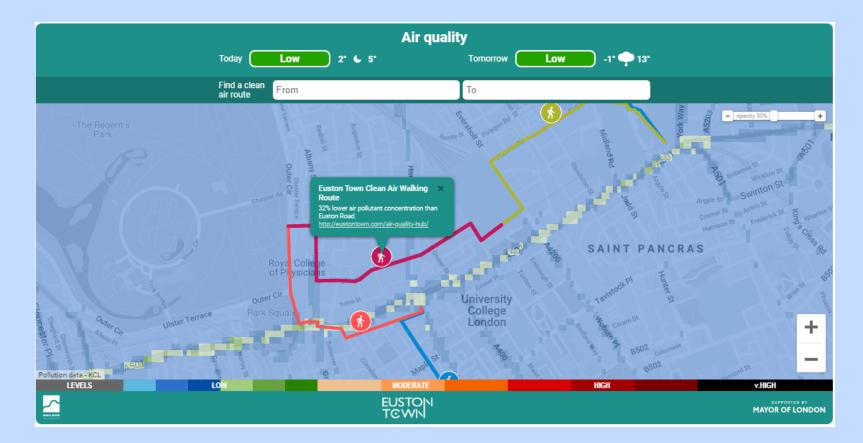
#### • V1.0

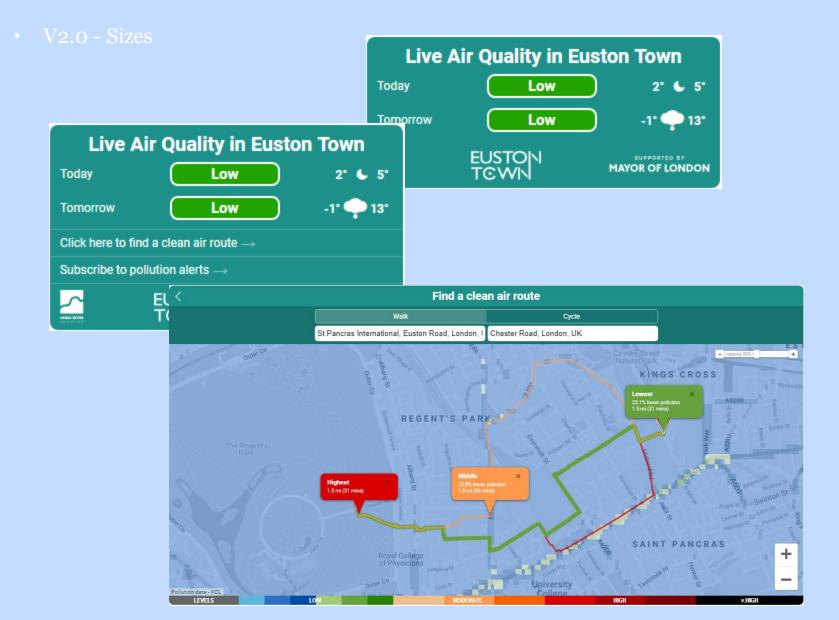


• V2.0 - Proper Low-Pollution Routing

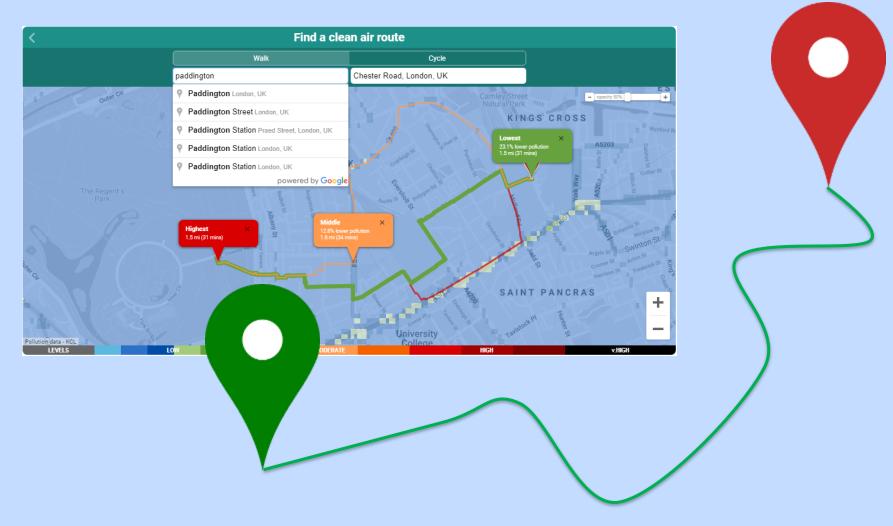


• V2.0 - Wellbeing Walks

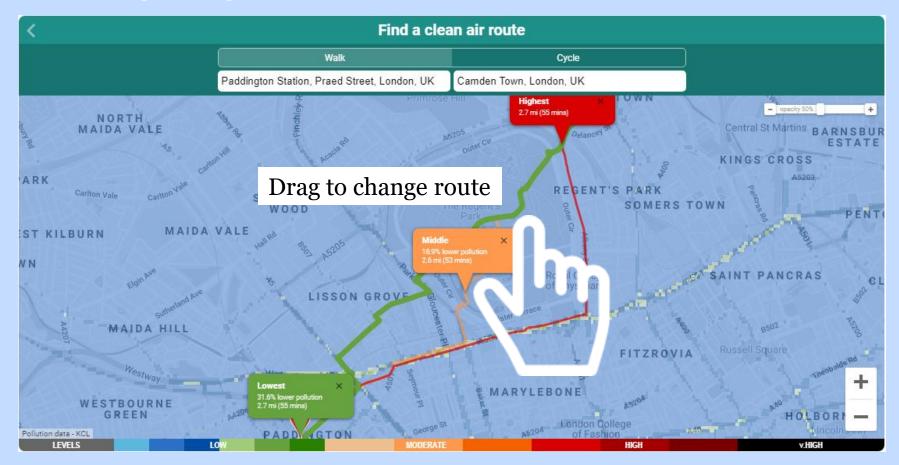




#### • V3 - Drop pin from/to



#### • V3 - Drag to change route



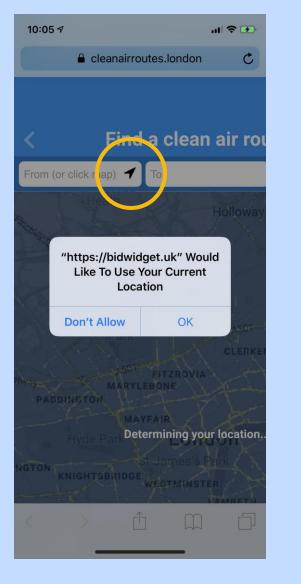
V3 - Pollution alert forecast emails!

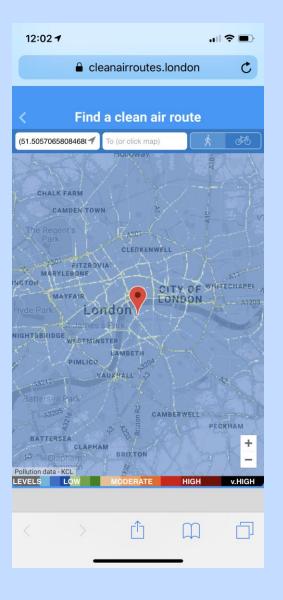
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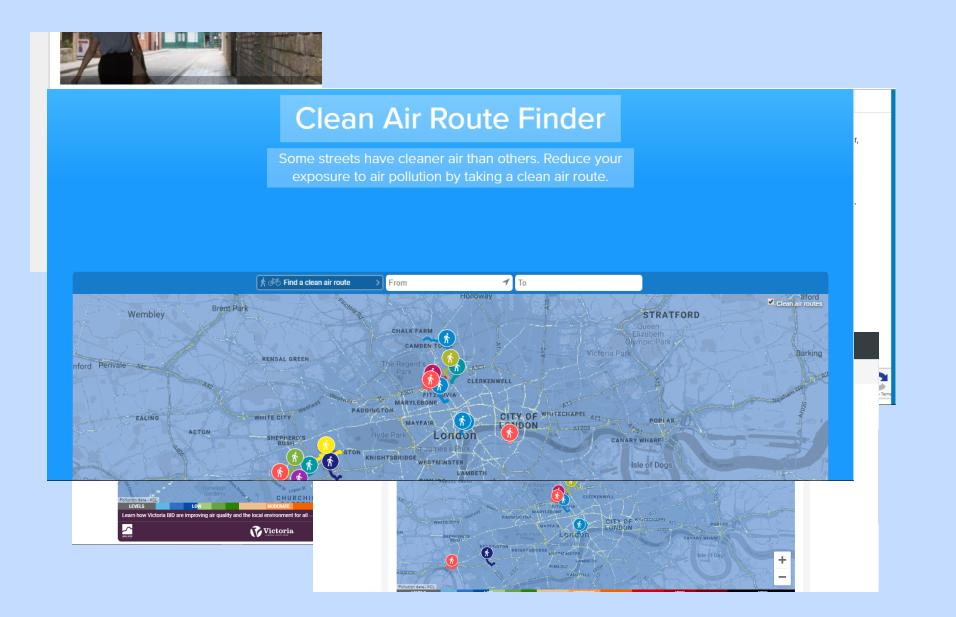
#### V3.0 - Admin – show/hide clean air routes

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• V3.0 – Locate me





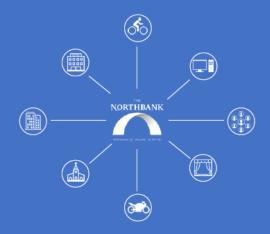


# Monitoring



### **Personal Monitoring**

Personal Exposure and Air Quality in Northbank



A detailed study on commuter exposure for Northbank Business Improvement District by King's College London July 2017



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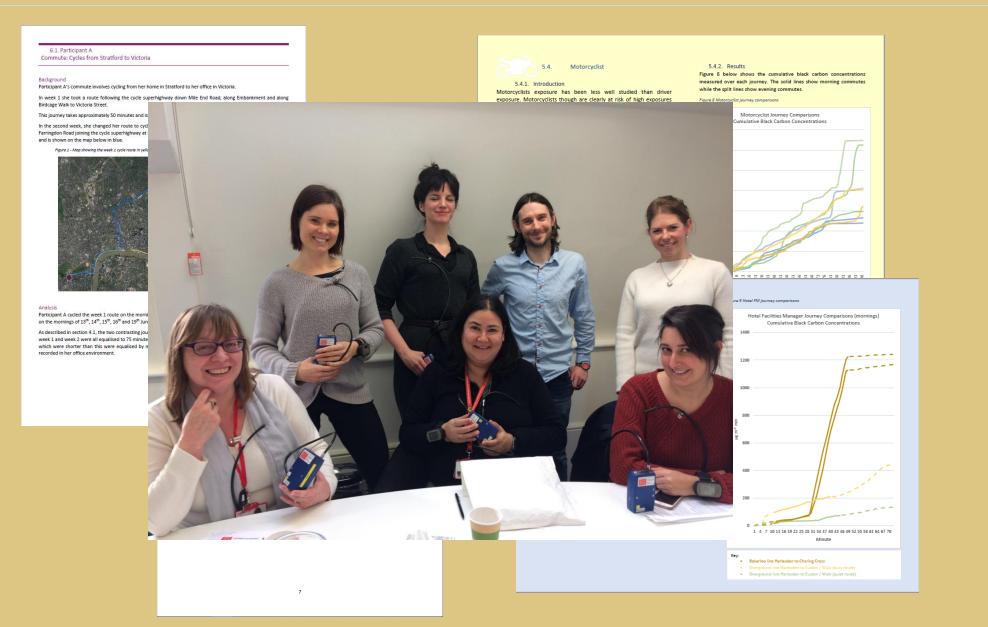
Personal Exposure and Air Quality in Victoria

A detailed study for the Victoria Business Improvement District by King's College London October 2017





### **Personal Monitoring**



# Anti-Idling





Clean Air Action Days Anti-Idling Campaign Monitoring Report



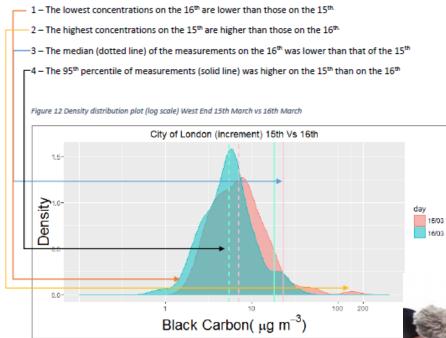
Andrew Grieve, Anna Font, Gary Fuller Environmental Research Group King's College London August 2016 SUPPORTED BY CLEAR AR BETTER BETTER USINESS







# Anti-Idling



Location Day Difference of 9th as % of 8th 95th percentile Difference Median 95th percentile Difference Median 9.5 15.9 34.9 19.0 32.9 City 23.8 14.3 West End 5.6 11.6 6.0 2.4 8.7 6.3 4.8 Waterloo 15.6 53.2 37.6 9.4 39.8 30.4 -19.0 Wandsworth 2.1 13.4 0.9 9.4 8.5 -36.3 15.6 Location Day Difference of 16th as % of 15th 16th 15th Median 95th percentile Difference Median 95th percentile Difference City 7.1 23.7 16.5 5.5 18.4 12.9 -22.2 West End 2.9 7.8 4.9 3.1 7.9 4.8 -1.2 Waterloo 1.6 9.0 7.4 2.9 8.7 5.8 -21.5 2.9 1.8 3.7 1.9 -36.2 Wandsworth 2.0 5.0

Table 1 Medians, 95th percentiles and differences in µg/m3 for each day



#### Parklets

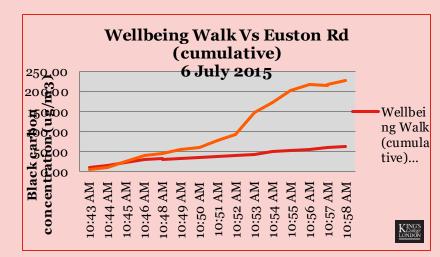


#### TEAM LONDON BRIDGE



#### **Clean Air Routes**

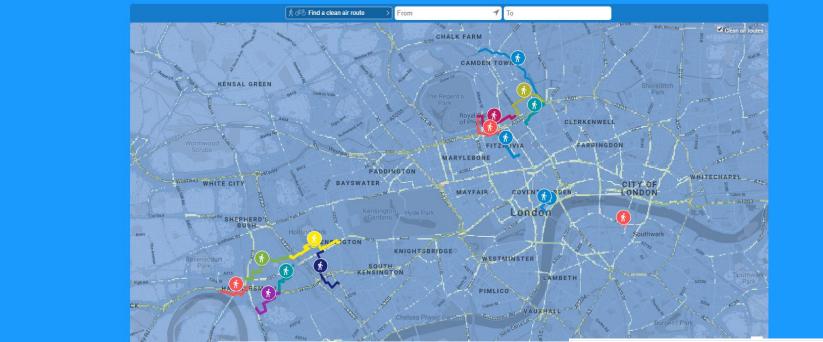


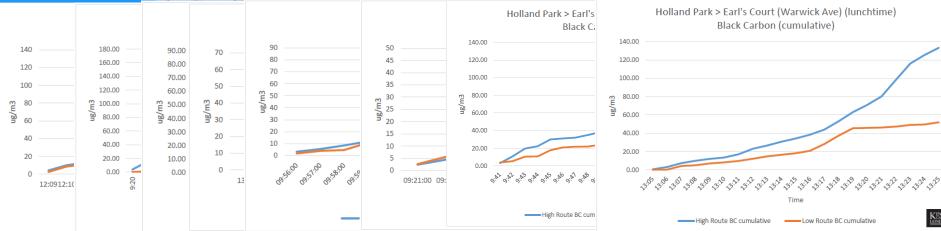






#### **Clean Air Route Finder**





KING'S LONDON

### **Pedestrian Exposure Mapping**

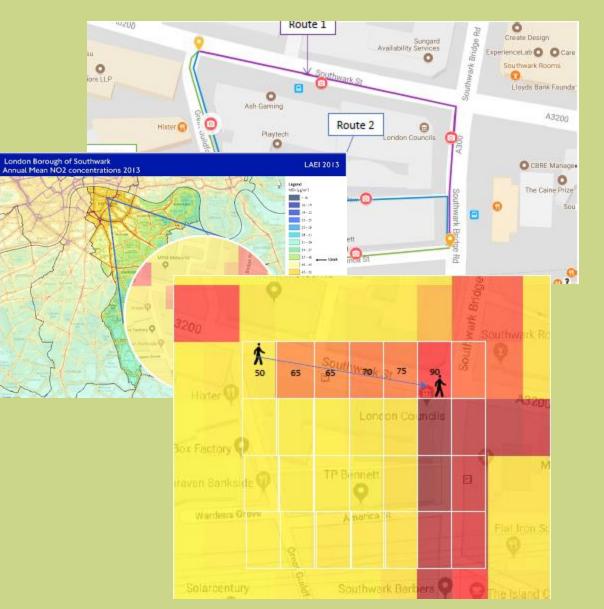


Mapping Pedestrian Exposure in Bankside



King's College London June 2018

<sup>Better</sup> Bankside



### **Pedestrian Exposure Mapping**



Table 3 Per person and total dose calculations per day for street segments in the study area

Below shows an example individual exposure dose equation calculation for two street sections in the study.

Dose per person = C \* T \* V

Where:

C = Is the concentration of pollution in micrograms per metre cubed ( $\mu g/m^3$ )

T = Is time (in minutes)

V = is the volume of air inhaled per unit time in metres cubed per minute (m<sup>3</sup>/min)

Importantly, the units in the calculation align; pollution concentration is expressed in  $\mu g/m^3$ , ventilation rate is expressed as  $m^3/min$  and time is expressed in minutes.

Dose per person (µg) = ug/m<sup>3</sup> \* min \* m<sup>3</sup>/min

Southwark Street		Southwark Bridge Road	(long)	Southwark Bridge Road	(short)	America Street		Keppel Row		Great Guildford Street	long	Great Guildford Street	short	
Distance (m)	97	Distance (m)	52	Distance (m)	19	Distance (m)	74	Distance (m)	79	Distance (m)	81	Distance (m)	60	
Time (s)	75	Time (s)	40	Time (s)	15	Time (s)	57	Time (s)	61	Time (s)	62	Time (s)	46	
Footfall	2710	Footfall	1731	Footfall	1731	Footfall	722	Footfall	363	Footfall	2165	Footfall	2165	
Mean Concentrations		Mean Concentrations		Mean Concentrations		Mean Concentrations		Mean Concentrations		Mean Concentrations		Mean Concentrations		nd route
NO2 (ug/m3)	79	NO2 (ug/m3)	109	NO2 (ug/m3)	94	NO2 (ug/m3)	61	NO2 (ug/m3)	58	NO2 (ug/m3)	56	NO2 (ug/m3)	59	
PM10 (ug/m3)	33	PM10 (ug/m3)	38	PM10 (ug/m3)	35	PM10 (ug/m3)	30	PM10 (ug/m3)	29	PM10 (ug/m3)	29	PM10 (ug/m3)	29	
DOSE (per person)		DOSE (per person)		DOSE (per person)		DOSE (per person)		DOSE (per person)		DOSE (per person)		DOSE (per person)		
NO2 (ug)	1.18	NO2 (ug)	0.87	NO2 (ug)	0.27	NO2 (ug)	0.69	NO2 (ug)	0.70	NO2 (ug)	0.70	NO2 (ug)	0.54	
PM10 (ug)	0.49	PM10 (ug)	0.30	PM10 (ug)	0.10	PM10 (ug)	0.34	PM10 (ug)	0.35	PM10 (ug)	0.36	PM10 (ug)	0.27	
Total (ug)	1.67	Total (ug)	1.18	Total (ug)	0.38	Total (ug)	1.04	Total (ug)	1.06	Total (ug)	1.06	Total (ug)	0.81	
Section Dose (total)		Section Dose (total)		Section Dose (total)		Section Dose (total)		Section Dose (total)		Section Dose (total)		Section Dose (total)		
NO2 (ug)	3,195	NO2 (ug)	1,509	NO2 (ug)	476	NO2 (ug)	501	NO2 (ug)	256	NO2 (ug)	1,511	NO2 (ug)	1,179	
PM10 (ug)	1,335	PM10 (ug)	526	PM10 (ug)	177	PM10 (ug)	247	PM10 (ug)	128	PM10 (ug)	782	PM10 (ug)	580	
Total (ug)	4,529	Total (ug)	2,036	Total (ug)	653	Total (ug)	748	Total (ug)	384	Total (ug)	2,293	Total (ug)	1,759	

# King's & London





King's London Stories

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King's student

#### LONDON AS A IVING CLASSROOM

The city in which the university makes its home is a distinctive feature of a King's education

KING'S EDUCATION STRATEGY sets out the university's ambitions to integrate London into the learning experience, drawing on the city's potential as a living classroom. In support of this, partnerships with local boroughs and organisations across the capital are becoming a distinctive feature of a

King's education. These collaborations help students take away the best possible life opportunities and develop lifelong connections and networks that will support them throughout their careers. At the same time, the students offer partners across the capital new insights and perspectives on their challenges and opportunities Black in the Union Jack? Black Lives in Modern London illustrates how King's embeds London into the curriculum across its Arts and Sciences faculties. This module from the Faculty of Arts &

Humanities is an exploration of the ways in which black people have lived, loved, worked, studied, played and become politically engaged in modern London. It has been developed in partnership with Black Cultural Archives (BCA) in Brixton and sees lectures, seminars and hands-on tasks delivered in alternate weeks at King's and at BCA.

Within the university's Health faculties, King's students - many of them the medics, doctors and



to ensuring our students beco

medical practitioners of the f

of the future.

#### **STAYING ALERT** Scientists at King's are providing official air quality forecasts to the Mayor of London

KING'S IS WORKING in partnership with the Mayor of London, Sadiq Khan, to ensure schools and vulnerable Londoners are quickly informed of significant incidents of poor air quality in the capital.

Scientists at King's Environmental Research Group use data from the London Air Quality Network, alongside projections from other leading forecasters, to deliver coordinated warnings and urgent alerts to the Mayor's office. It is hoped that the alerts will encourage Londoners to make small changes that might reduce their exposure to torric air

The Mavor of London said. 'I introduced air quality alerts within months of becoming Mayor. The system has proved to be very successful but I am delighted to bring the expertise of King's College London on board so that we can reach more Londoners, particularly the most vulnerable, with the very latest information.'

King's is one of the leading providers of air quality information and research in the UK. The Environmental Research Group combines air pollution science, toxicology and epidemiology to determine the impacts of air pollution on health. This world-leading research is being used by



King's London Stories

up-to-date

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14









## Thanks!

Andrew Grieve Andrew.grieve@kcl.ac.uk

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#### Time to Breathe Campaign

#### Matthew Holder, British Safety Council

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019



#### **Time to Breathe** British Safety Council campaign on Air Pollution

#### **British Safety Council as a charity**



Most have protections under H&S law in UK

Our vision: No-one should be injured or made ill at work

Yet some more at risk than others.

Our campaigns focus on some of these most vulnerable workers.

Campaign on Air pollution aimed at outdoor workers. Evidence building.

Looking for help.

#### **Air pollution in London**





#### Air pollution and outdoor workers





Air pollution is a growing concern – Royal College of Physicians/Ministers/Unite (Diesel Register). WHO. IARC.

Scientific understanding growing – lungs, to heart and brain. Some say the new asbestos or smoking.

Outdoor workers often ignored, inc. police, road maintenance, newspaper sellers, construction, delvery

H&S law tends to be workplace based. HSE doesn't regulate ambient air pollution.

### Time to Breathe: launch 12<sup>th</sup> March 2019





## time to breathe





Time to Breathe will:

- Highlight risks to outdoor workers and call for more research
- Provide employers with free materials posters, fact-sheets, research
- Call for better protections for all workers from policy-makers
- Crucially, a new tool to help employers and workers

### **Canairy: the app for London's outdoor workers**





London has the best pollution data in world (not yet in other UK cities)

Partnership with King's College. London - software calculates durational exposure to main pollutants

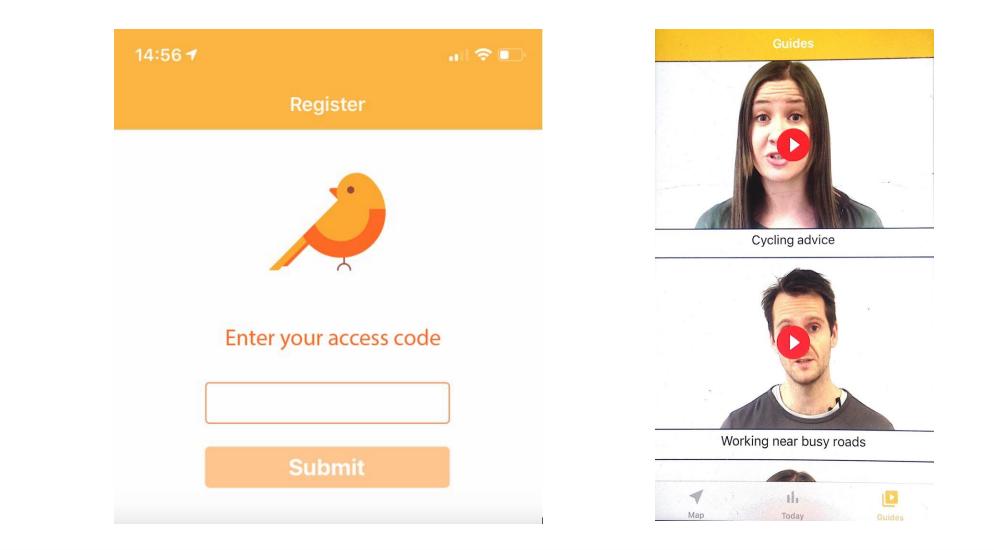
A professional App – only for Supporting employers

App message will be action orientated for employer/worker

Data collected will enable employers to better assess, control and monitor their outdoor worker long-term exposure to air pollution

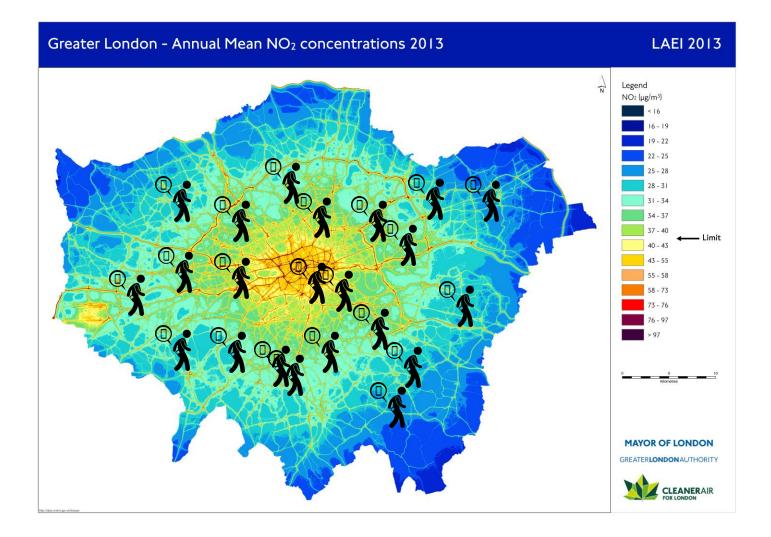
### **Canairy: functions**





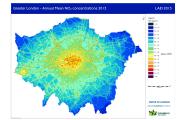
### **Tracking exposure for risk management**

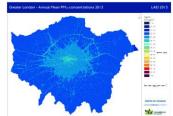


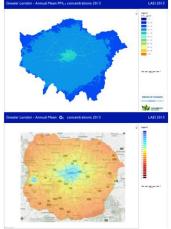


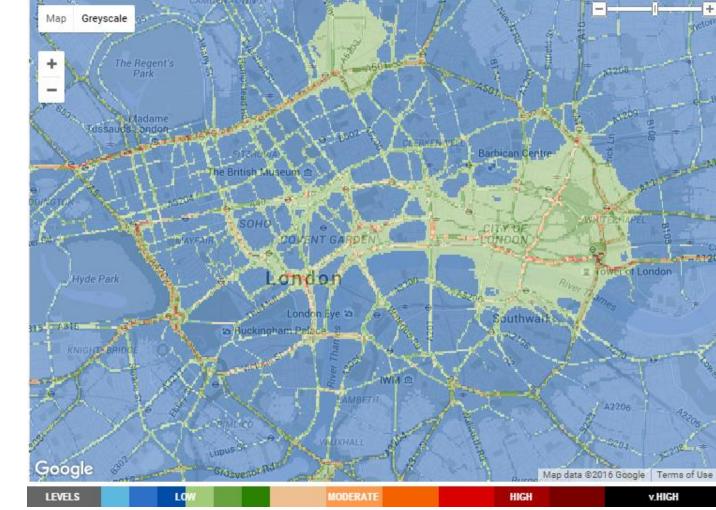
### **Nowcast**

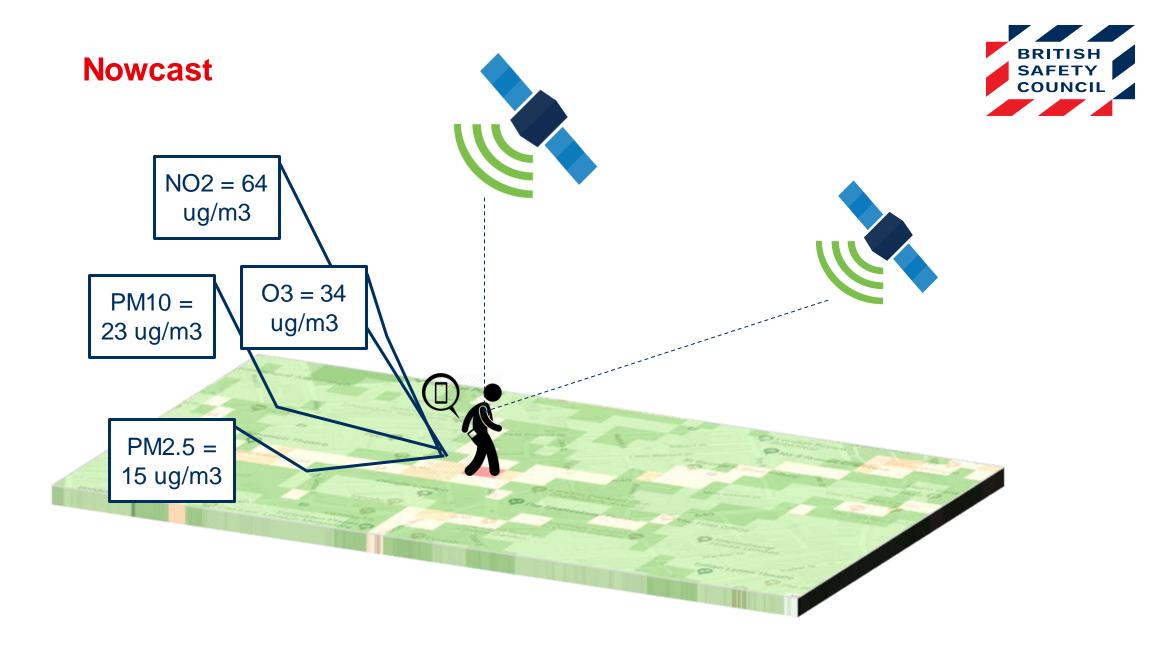






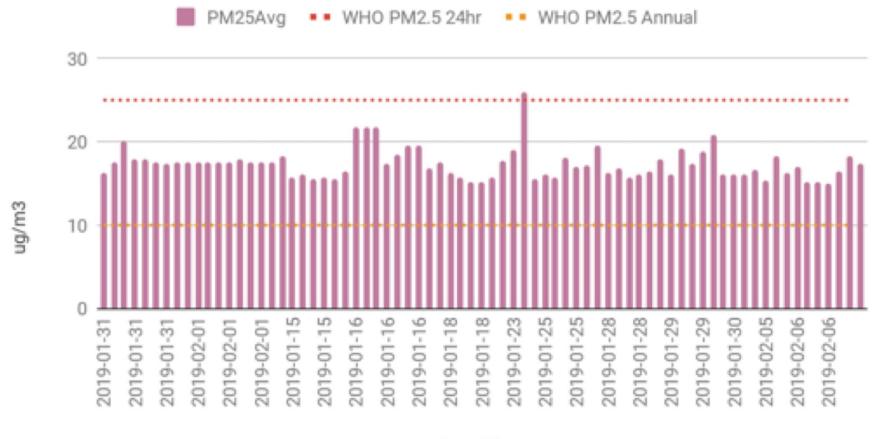






### Database of test results – PM2.5

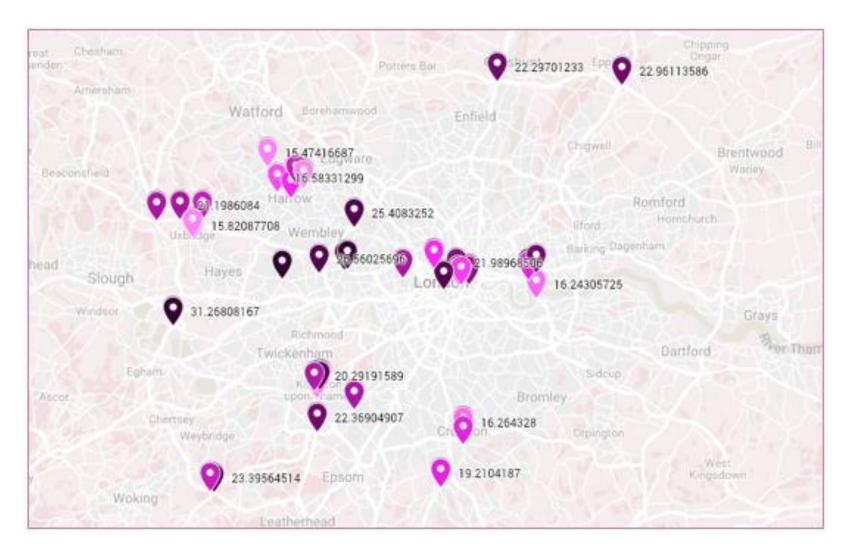




Date/Time



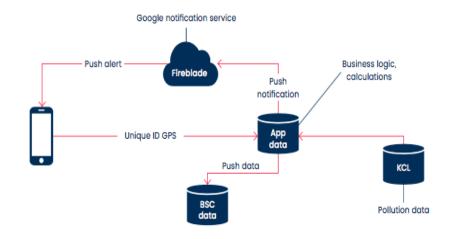




### Canairy



#### Canairy: data flow chart



iOS and Android Exposure database for employers

For employers who want to work with us, *Supporters* will receive codes to access the App for their workers.

First *Supporters* are helping – Kier, Tideway, Lanes Group

### **Future development**





### **Future of campaign**



Working with employers to provide information via Canairy.

With more uptake we will have a more accurate view of exposure across London.

Over 50 organisations have requested access to Canairy since launch.

Please get in touch:

timetobreathe@britsafe.org

matthew.holder@britsafe.org



# Let's act now with the info we have, not when it's too late.



# The Northbank BID Air Quality Update Alison Gregory, The Northbank BID

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019

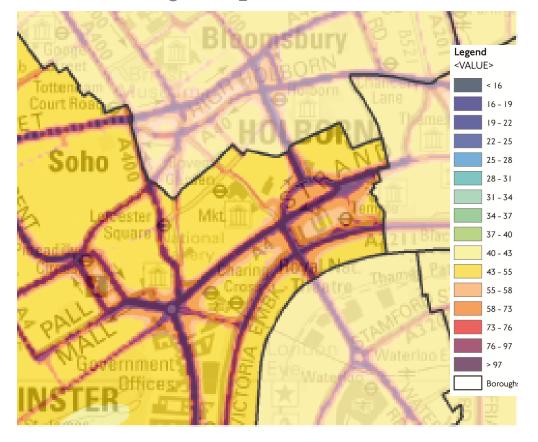
# Improved Air Quality





## Northbank

Annual Average NO<sub>2</sub> concentrations, 2013





THE NORTHBANK

# Strategic partners

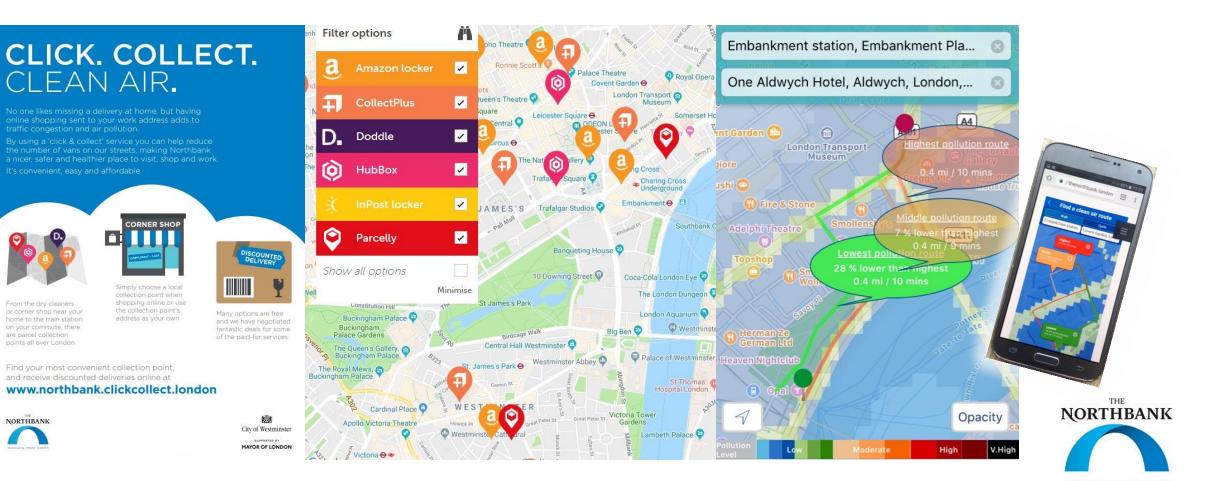






are parcel collection

NORTHBANK



## Collaboration, engagement & energy



TRAFALGAR SQ - STRAND - ALDWYCH

# **Delivery plans**



### **Delivery & Service** Planning case studies

with Cross River Partnership and Steer Davies Gleave





750,000 visitors annually On and off-street servicing area

#### What is a DSP?

Delivery and Servicing Planning (DSP) is the method to reduce by adopting a bespoke package of measures to provide benef those working, visiting or living within the area.

This case study outlines some of the practices that St Martin-i the sustainability of their deliveries and servicing.



neto

#### Q Spotlight on existing operations

with a packar Although St Martin-in-the-Fields already had good practices which save them money and reduce the emissions and congestion within central London, they wanted to do more



New practices

We are working to do our bit to improve the local environment.

One simple step has been to reduce the frequency of stationary deliveries from twice a week to once a month. Annually this has reduced vehicle trips by 92 trips a year (88%). It's been quite easy to do with a bit more forward planning by everyone and has saved both time and money.







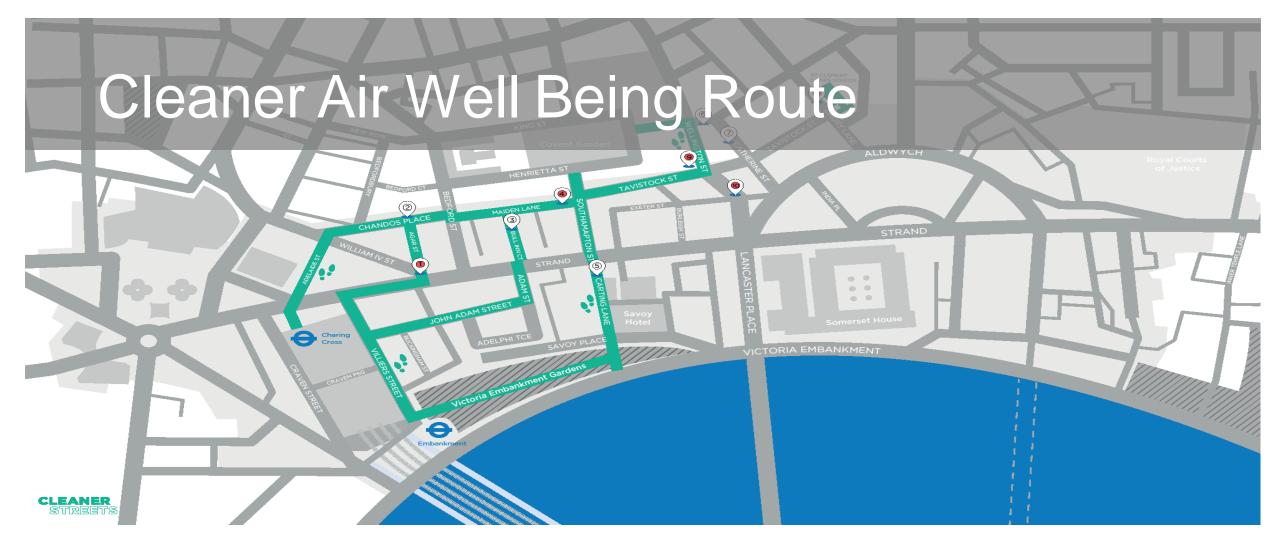
# Holistic approach



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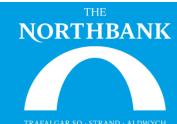






#### AGAR STREET





## **Somerset House**





NORTHBANK

TRAFALGAR SQ - STRAND - ALDWYCH

# **Enabling and monitoring**



DELIVERING BETTER AIR FOR AIR EVERYONE

### **RESIDENTS' NEWSLETTER**

Did you know that Somerset House currently receives deliveries that generate emissions equivalent to two planes taking off every day?

Working in partnership with TfL, the Northbank BID and Steer Group, we're work on an initiative to reduce the pollution we're breathing in at work. The first step is encourage everyone to make a small change in the way that we use the Post Room.

On average, a whopping 22% of deliveries the Post Room receives are personal using services such as *Click & Collect* for personal deliveries, we can drastically reduce our incoming traffic. When you're buying something for yourself online, having it delivered to a local shop near home. It's often just as convenient.

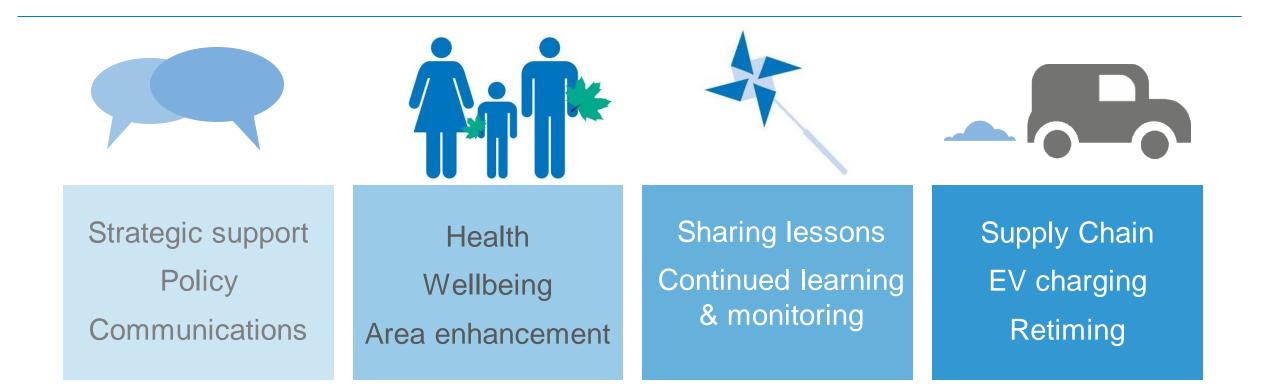


Spring

BRYN WILLIAMS.



## 2019+





## 2019+



## 2019+





TRAFALGAR SQ - STRAND - ALDWYCH

## #northbankcleanerair



TRAFALGAR SQ - STRAND

ORTHBA



## Victoria BID Air Quality Update

## David Beamont, Victoria BID

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## Victoria Business Improvement District Clean Air Better Business Final Event & Celebration 3<sup>rd</sup> April 2019









#### THE LITTLE GUIDE TO

Better Air Quality "Our message is that umple, small changes to burness behaviours can improve local or quality unit vehicle height risks to people whill making buomesses more efficient," Dwid Research, Operations Manager, Victoria 800

#### SITUATION

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#### LOCAL IMPACT

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#### MONITORING AIR QUALITY

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Visit; www.vistoria.bid.co.uk/work/co-quality

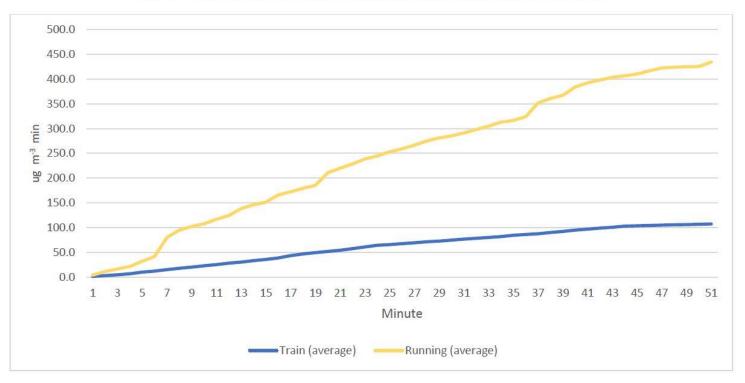
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deliverBEST shares practical, proven solutions that make deliveries to your business more efficient. It saves you time and money while improving local air quality



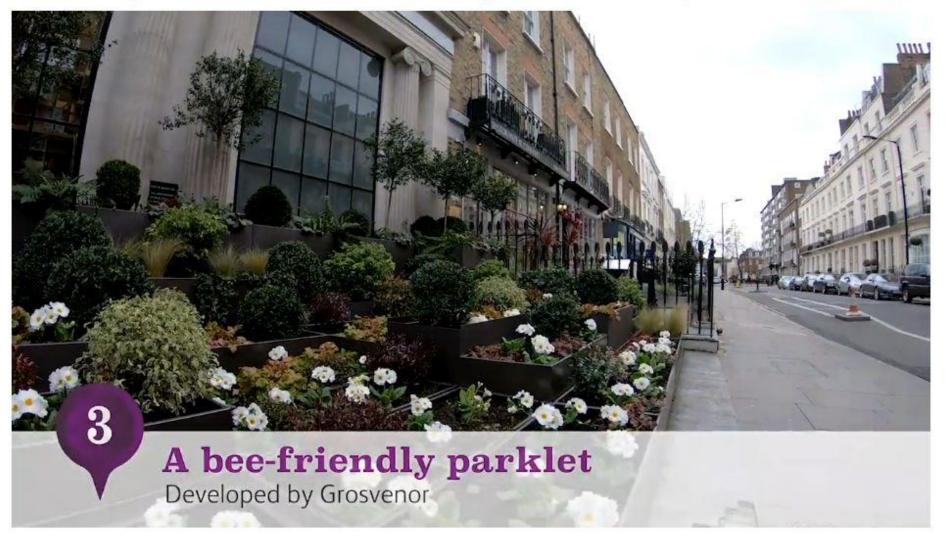


*Figure 6 - Cumulative Black Carbon concentrations during averaged running and train journeys* 

Table 3 - Percentage difference between cumulative black carbon concentrations for train Vs running journeys

Train	Total BC μg m <sup>-3</sup> min	Run	Total BC μg m <sup>-3</sup> min
09-May	130	09-May	416
11-May	96	16-Jun	417
14-Jun	92	19-Jun	467
Average	106	Average	433
Difference %	-76%		

### Walking Victoria to Sloane Square Underground Station











# Clean Air Better Business Summary Report

# Brendon Harper, Cross River Partnership

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019

#### CLEAN AIR BETTER BUSINESS

CROSS RIVER PARTNERSHIP \*

SUMMARY REPORT 2014 - 2019 #CleanAirBetterBusiness

SUPPORTED BY

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的一切的问题



**Over the past six** years, Cross River **Partnership's Clean Air Better Business** programme has brought together central London boroughs, BIDs and businesses to support the business sector to reduce emissions and exposure to toxic air pollution. Supported by the Mayor's Air Quality Fund, CRP and partners have:

- Put air quality firmly on the business agenda
- 2 Supported businesses to reduce emissions from freight and servicing
- **3** Taken on the impact of growing e-commerce deliveries
- Supported business-led green infrastructure and healthy streets
- 5 Reduced exposure to toxic air pollution
- Spread the word that Clean Air is Better for Business

Air quality is now firmly on the business agenda, with BIDs, estates and individual businesses now leading action to clean London's air while achieving commercial and CSR goals.

CRP looks forward to continuing to support the public and private sectors, working across borough boundaries to support London's goal of clean air.





1 Helped put air quality firmly on the business agenda

DEVELOPED AND DELIVERED BUSINESS-LED DELIVERIES AND AIR QUALITY STRATEGY WITH HEART OF LONDON BUSINESS ALLIANCE.





MADE 16 SUBMISSIONS TO BOROUGH, MAYORAL AND GOVERNMENT PLANS AND STRATEGIES. UNLOCKED OVER **£800K** PUBLIC AND PRIVATE SECTOR INVESTMENT ON TOP OF MAYORAL INVESTMENT.



PIONEERED LONDON'S FIRST MULTI-BOROUGH ANTI-IDLING AWARENESS DAYS, now pan-London with fleet operator support.



HELD 22 PUBLIC & PRIVATE STAKE-HOLDER MEETINGS and presented at 24 conferences and events.



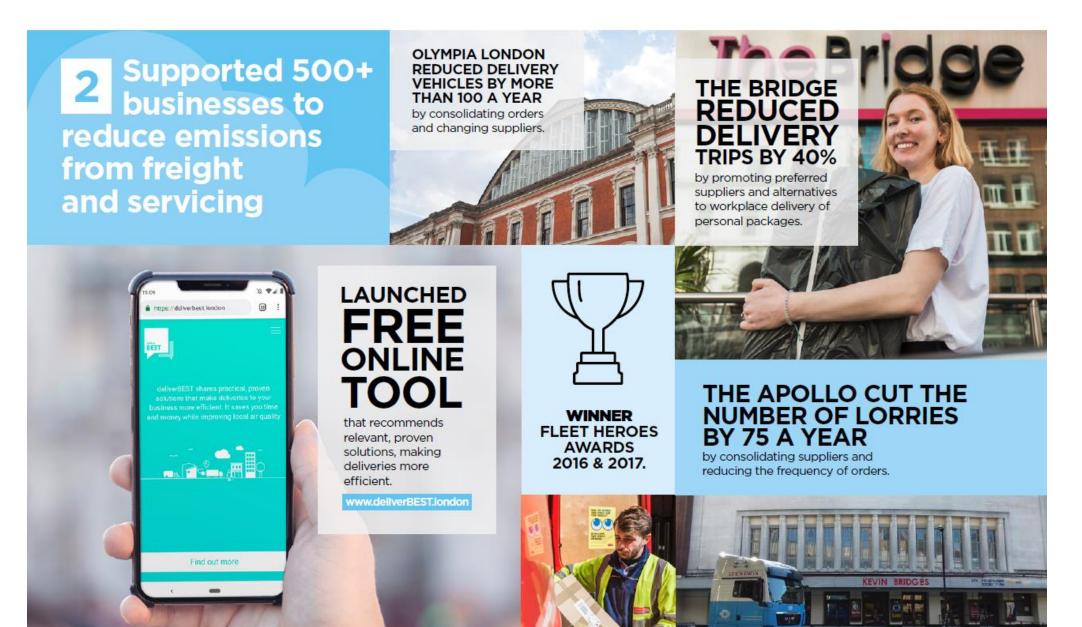




#### LESSONS LEARNT HELPED PARTNERS SECURE ADDITIONAL FUNDING

including The Northbank BID's BLEN and CRP's Defra-funded Clean Air Villages programme.





**OVER** 

22,000 VIEWS OF

ONLINE

PARCEL COLLECT POINT LOCATOR.



### **3** Took on the impact of growing e-commerce deliveries

#### DEVELOPED CLICK COLLECT CLEAN AIR

behaviour change campaign to reduce workplace delivery of online shopping purchases - promoted by more than 20 BIDs and boroughs.



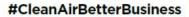




SUPPORT AND PROMOTION OF CLICK & COLLECT, a key action in

the Mayor's Freight & Servicing Action Plan 2019.

**90%** OF DELIVERIES MADE USING PARCELLY PROMOTION CODE NOW BEING DELIVERED OUTSIDE OF ZONE 1 AND 2 WHERE AIR POLLUTION IS WORST.





**4** Supported business-led green infrastructure and healthy streets

#### The Fitzrovia Partnership's FitzPark INCREASED STREET USER WELLBEING BY 41% and food and

beverage businesses noted increased sales.



150+



LOCALS VOLUNTEERED at Brixton BID's Orchard.

SHAR

Ø

FITZPARK

**RUNNER-UP** 

CAMDEN

BETTER BANKSIDE'S

METAL BOX GARDEN

PRO-LANDSCAPER AWARDS 2018.



PLANTED

NEW TREES

AND

1000+

SHRUBS

& BULBS

increased participant likelihood of cycling by 80%.



CLICKS RIVI

ONLINE

**CLEAN AIR** 

ROUTE

FINDER USED

140,000 TIMES.

www.cleanairroutes.londo

#### Reduced 5 exposure to toxic air pollution

Walk

King's

Cross

via St Pancras

\$ \$

PIONEERED

LONDON'S

CLEAN AIR WALKING

ROUTE

with Urban Partners.

and identified 13

more including

Euston Town's

Green Link.

RS

towards

TREBLING OF FOOTFALL along the first Clean Air Walking Route between Euston and Kings Cross Stations.

verten m m



THE NORTHBANK **BID'S COMMUTER EXPERIMENTS** SHOWED ROUTE AND MODE CHOICE CAN CUT EXPOSURE DRAMATICALLY.



WINNER ASSOCIATION OF TOWN & CITY MANAGEMENT **AWARDS 2018.** 

> **RUNNER-UP** SUSTAINABLE CITY **AWARDS 2018.**



Research with King's College London showed SIDE STREET ROUTES CAN CUT EXPOSURE TO POLLUTION BY HALF. featured in The Guardian.

The Wellb ncras In that encourto avoid the high levels of pollution on Euston Road Per anti antitati





**Spread the** 6 word that **Clean Air is Better** for Business

#noidling

3.8m



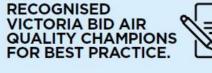
20,000 PEOPLE VIEWED CLEAN AIR TOGETHER EXHIBITION at New London Architecture.



Victoria

REACHED 8N PEOPLE ON SOCIAL MEDIA during London's first

multi-borough anti-idling engagement day.



Developed localised, **BUSINESS-**FOCUSSED GUIDES to better air quality.







Better Air

Quality

PROMOTED CLEANER VEHICLES TO PRIVATE INDUSTRY.



# Work towards cleaner air continues

Contact us to discuss potential opportunities to work together towards cleaner air.



Westminster City Hall 64 Victoria Street, London SW1E 6QP

 Phone:
 020 7641 2198

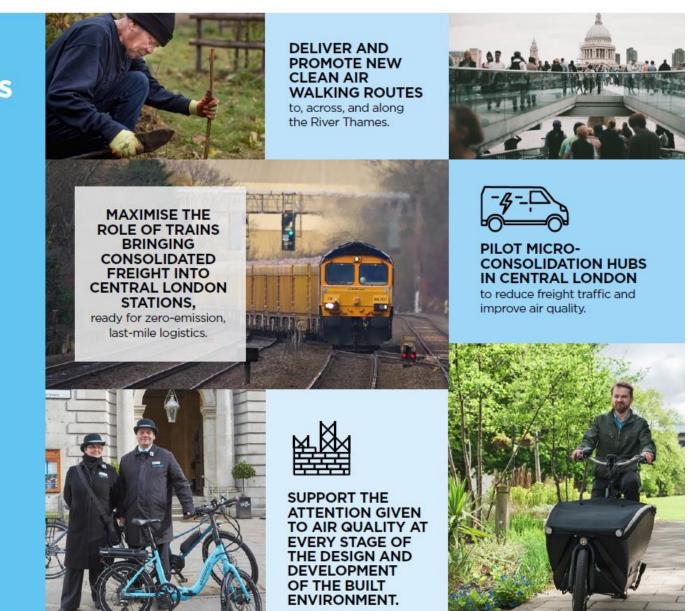
 Web:
 crossriverpartnership.org

 Twitter:
 @CrossRiverPship

 Email:
 crp@crossriverpartnership.org

 Linkedin:
 /cross-river-partnership

Delivering London's Future Together for... years

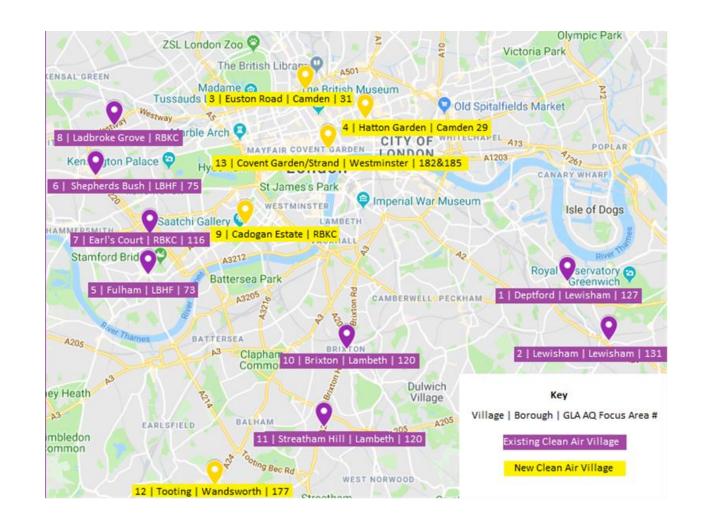


# CROSS RIVER PARTNERSHIP

Delivering London's Future Together for year

# Clean Air Villages 2

- Defra Funding Application to continue and extend successful Phase 1 Clean Air Villages project (CAV1).
- 3 new borough partners and 5 new villages.
- Aims:
  - Continued focus on business delivery and servicing trips.
  - Maintain and build on CAV1 momentum.
- Successful application £413k granted for delivery 2019/20.





## Healthy Streets Everyday

- CRP-led application to the Mayor's Air Quality Fund Round 3.
- £3.2m to deliver pedestrian-priority healthy streets, cleaner air and empower boroughs and communities.
- Streetscape improvements, traffic regulations, car free events, standardised guidance & communications and comprehensive evaluation & monitoring.
- Involves half (16) of London's boroughs as well as BIDs, estates and community-sector organisations.
- Supported by University of Westminster, Kings College London, Global Action Plan, London Car Free Day, Illuminated River Foundation.





## **Clean Air Thames**

**Supporting Partners** 

mbna

- Mayor's Air Quality Funding Application for collaborative River Freight project.
- 3 key objectives:
  - Retrofitting emission reduction technologies to passenger and freight vessels.
  - Feasibility study and trial of shifting light freight from the road network onto vessels on the River Thames.
  - Identifying under-utilised wharf and pier capacity. •





# Thank You All

Delivering London's Future Together for 25 years | Clean Air Better Business | Wednesday 3 April 2019