



# **Delivering Practical Responses to Improving Air Quality- Creating a 'Mini-Holland' in Waltham Forest**

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LB Waltham Forest



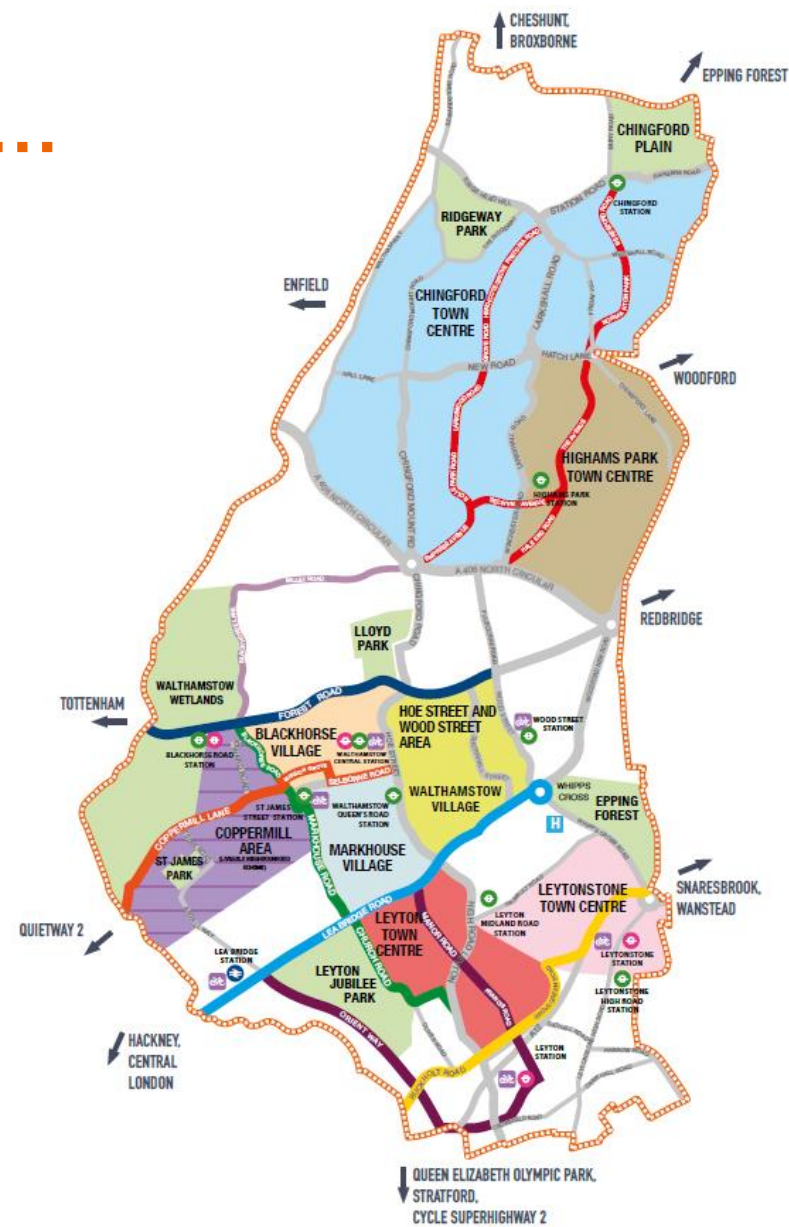
# Enjoy Waltham Forest objectives...

- 1 A network of direct joined up cycle routes
- 2 Safer streets for the bike
- 3 More people travelling by bike
- 4 Better places for everyone
- 5 Better balance between movement and place
- 6 International best practice
- 7 Attract growth
- 8 Supporting other corporate objectives



# Enjoy Waltham Forest vision...

- Lea Bridge Road – *a street for everyone*
- Walthamstow Village schemes
- Town Centre schemes
- A network of excellent cycle routes
- Complementary measures
- Cycle hubs



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# Case Study: Orford Road- Local Traffic Neighbourhood

# During - Walthamstow Village (Orford Road) Low Traffic Neighbourhood Construction



# Before - Walthamstow Village (Orford Road)



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# After - Walthamstow Village (Orford Road)



*“There was a buzz on Orford Road yesterday and it was so nice to see people of all ages enjoying time outside, socialising and making the most of the extra space. In the past we have been shocked by how fast cars drive down Orford Road and the pavements can be really cramped with people and buggies! It was just great to see people of all ages sitting outside and it seemed like the local shops were doing a swift trade.”*

# Walthamstow Village

## Impacts of scheme

Road	Before the trial	After the trial	Difference before and after the trial	Percentage change
Addison Road	2894	2261	-633	-22%
Beulah Road	363	459	96	26%
Grosvenor Park Rd	1445	952	-493	-34%
Grove Road	3118	729	-2389	-77%
Orford Road	2525	579	-1946	-77%
Pembroke Road	2618	1444	-1174	-45%
Shernhall Street	4444	1340	-3104	-70%
Wingfield Road	996	232	-764	-77%
Copeland Road	2625	69	-2556	-97%
Eden Road	648	52	-596	-92%
East Avenue	2079	2912	833	40%
West Avenue	1951	161	-1790	-92%



# Improved local high streets

## Leyton Town Centre (Francis Road)



Francis Road has been transformed with a timed motor vehicle restriction, enhancing the local retail economy by providing accessible paving and an improved public realm with new greening and planting.



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# Introduced world-class segregated cycle tracks

## Lea Bridge Road



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# What do people really think?

## The top four things businesses think will improve access to Lea Bridge Road for their customers



## Vs The top four things visitors think will improve access to Lea Bridge Road



## Top changes businesses on Lea Bridge Road would like to see



## Business feelings towards Lea Bridge Road

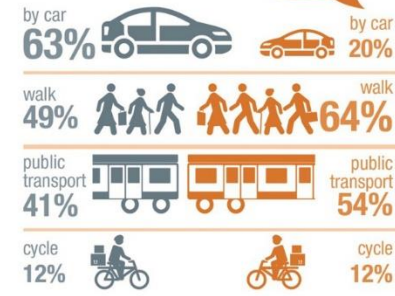


## Visitor survey results

### Top four changes visitors to Lea Bridge Road would like to see



## Businesses on Lea Bridge Road think their customers travel to the area:



However, visitors said they travelled:

## Visitor problems



# Greened walking and cycling routes

Lea Bridge Road (Lee Valley Park)

Greening streets is a key part of the proposals throughout Waltham Forest. Many people want to see more trees in their area, and by increasing planting we can help tackle poor air quality and make our routes more attractive for people walking and cycling.



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Waltham Forest

# Created new pocket parks and green spaces- places for people!



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# Before and after: Whipps Cross

## Roundabout to T-junction



# Blended Crossings



People turning into side roads in cars should always give way to people who have started to cross as described in the Highway code. **Rule 170 of the Highway Code states - Pedestrians that have started to cross the side road have priority over vehicles turning into the side road.**



Blended crossings are designed to slow down vehicles when entering or exiting side roads and encourage vehicles to give way to pedestrians crossing the road, reinforcing the rules of the Highway Code.

# Summary of achievements

**80+ Modal Filters introduced with more already planned**

**32KM of Segregated and Semi Segregated Cycle Lanes built**

**Cycling increased by 103%**

**Car usage dropped 7%**

**118 pedestrians crossings improved**

**15 new 'Pocket Parks' created from former road space.**

**800 new trees planted**

**91** safer junctions through the introduction of blended crossings

**24** tiger crossings have been installed

**400+ Cycle Hangars installed- a further 100+ planned**

**850 on street car parking spaces removed in 2019 alone**

The Cycle Park and Go network provides **472** spaces in **7** cycle hubs next to London Underground, Overground, and National Rail stations



# Complementary Measures

## Cycle training and maintenance

### Schools

- 8,251 pupils trained (2014-19)

### Individual/Group Training

- 6,291 adults trained (2014-19)

### Cycle maintenance

- Dr Bikes
- Maintenance courses

### All Ability Cycle Club

- Over 40 people attend our regular club in Lloyd Park



# Complementary Measures Community Walking & Cycling Fund- Social Prescribing?



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# Complementary Measures

## Free Bike Hire



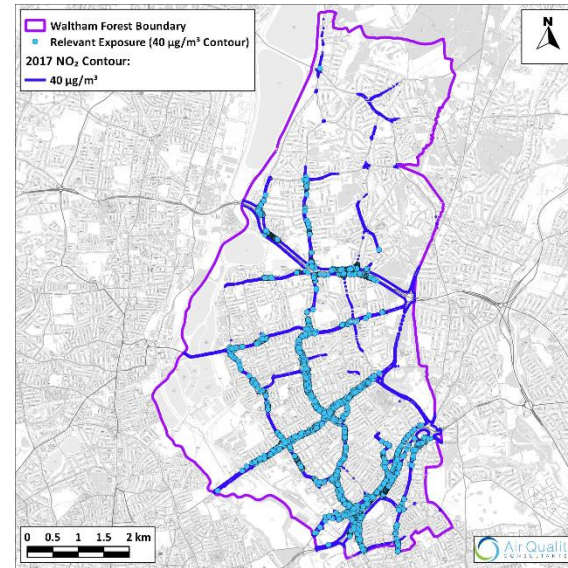
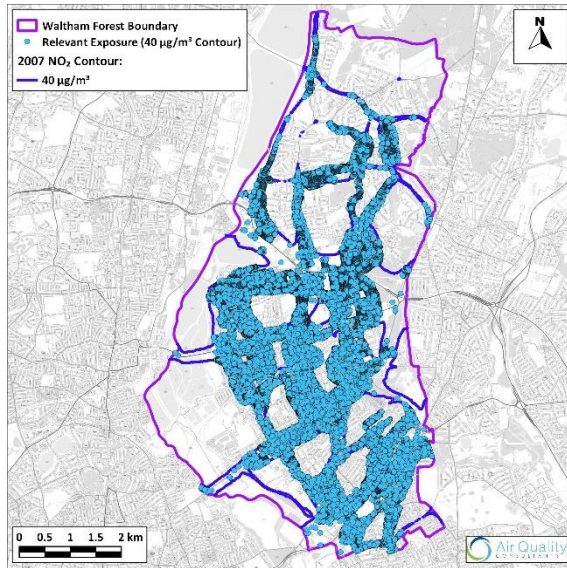
# Complementary Measures

## Cycle parking



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# Air Quality



King's College London report concluded that Waltham Forest residents are expected to gain up to 7 weeks of life expectancy if pollution levels decline as predicted as a result of the Enjoy Waltham Forest programme. Between 2013 and 2020 on popular cycle routes, exposure of NO<sub>2</sub> is predicted to reduce by up to 25 per cent and by up to 13 per cent for PM<sub>2.5</sub>.

Table 5

NO<sub>2</sub> exposures while cycling in Waltham Forest

Route	2013 NO <sub>2</sub> (µg/m <sup>3</sup> )	2020 NO <sub>2</sub> (µg/m <sup>3</sup> )	Percent change
Chingford Station to Leyton Station [Segregated*]	54	42	22%
Lea Bridge Station to Whipps Cross [Segregated*]	59	44	25%
Leyton Station to Blackhorse Road Station	56	44	21%
Wood Street Station to Blackhorse Road Station	42	35	17%
Coppermill Lane Waterworks to Wood Street Station	36	30	17%
Leytonstone Station to Stratford Drapers	58	48	17%
Leytonstone Station to Lea Bridge Station via Ruckholt	49	40	15%

Table 6

PM<sub>2.5</sub> exposures while cycling in Waltham Forest

Route	2013 PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2020 PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Percent change
Chingford Station to Leyton Station [Segregated*]	17	15	12%
Lea Bridge Station to Whipps Cross [Segregated*]	18	16	11%
Leyton Station to Blackhorse Road Station	17	16	6%
Wood Street Station to Blackhorse Road Station	16	15	6%
Coppermill Lane Waterworks to Wood Street Station	16	14	13%
Leytonstone Station to Stratford Drapers	17	16	6%
Leytonstone Station to Lea Bridge Station via Ruckholt	17	16	6%

Table 7

NO<sub>2</sub> exposures while walking in Waltham Forest

Route	2013 NO <sub>2</sub> (µg/m <sup>3</sup> )	2020 NO <sub>2</sub> (µg/m <sup>3</sup> )	Percent change
Chingford to Chingford Police	40	34	15%
Green Man Roundabout to Leytonstone High Road Station	55	43	22%
Leyton to Drapers Fields	55	44	20%
Walthamstow Central to Waltham Town Hall	50	41	18%
Walthamstow to Lea Bridge via Selbourne and Markhouse	54	43	20%
Wood Street to Waltham Town Hall	47	40	15%

Table 8

PM<sub>2.5</sub> exposures while walking in Waltham Forest

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# Thanks!

## Any questions?

[www.enjoywalthamforest.co.uk](http://www.enjoywalthamforest.co.uk)