

Low Emission Logistics

Citylab 27th January 2017



What will be covered?

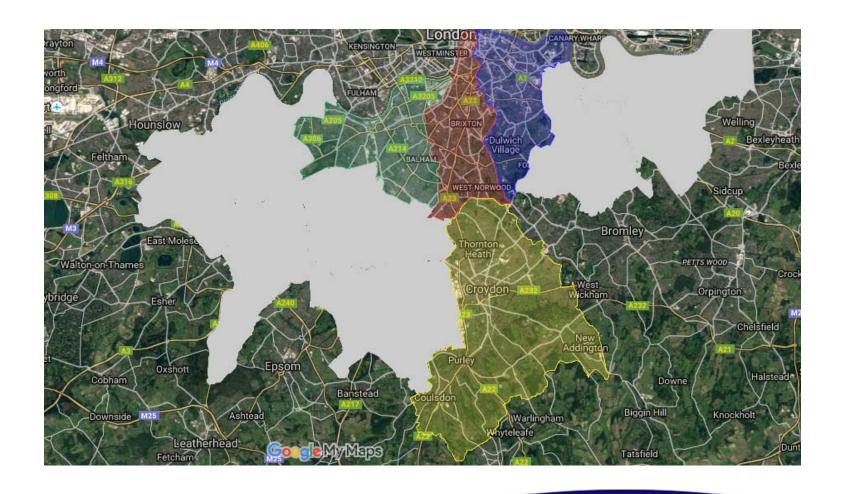
- Introduction
- Problem
- Baseline
- Emissions modelling
- Obstacles
- Recommendations



Introduction

- Funded through the second round of the Mayors Air Quality Fund (MAQF2)
- 3 years from 2016/17 2018/19
- Lambeth lead borough partnering with Southwark, Croydon and Wandsworth councils.







Introduction - Aims and objectives

- Aim is to reduce the number of delivery vehicles in each borough
- To reduce congestion, improve air quality and provide opportunities to reduce operational costs.
- Identify priority areas where consolidation solutions can be introduced in a cost-effective way
- Target: Achieve 40% reduction in emissions



Problem



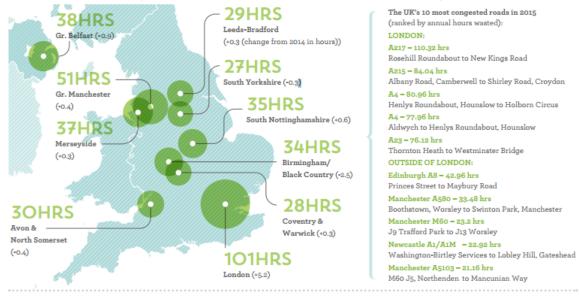


Problem - Congestion

- 2015 study by INRIX shows 101 hours wasted by drivers sat in congestion in London
- Population growth

 worsening
 congestion, air
 quality, road
 safety, economic
 cost......

THE TOP 10 MOST CONGESTED CITIES IN THE UK (HOURS WASTED ANNUALLY PER DRIVER IN 2015):



UK CONGESTION BY NUMBERS:



Number of hours wasted in traffic by the average London driver **₩**18.6M

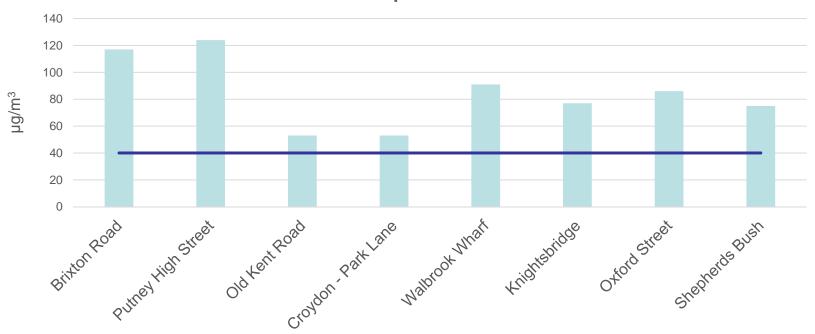
London's population in 2015 – the highest since its 1939 peak, increasing year-on-year by more than 100,000 **流30HRS**

Average yearly delay on the UK's roads = the sixth most congested country in Europe



Problem – Air quality

London - Nitrogen Dioxide Annual Mean Air Quality Objective Limit Compliance





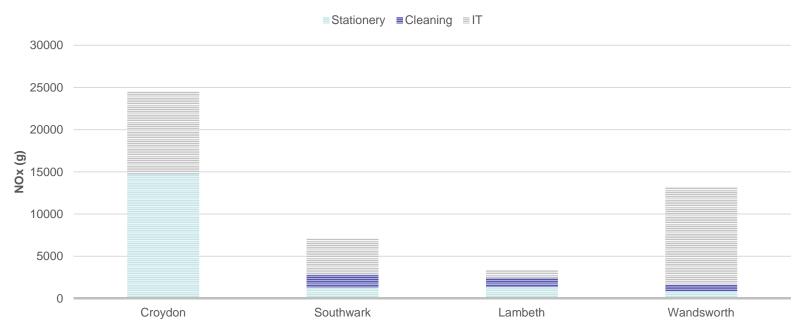
Baseline – what to consider?

- How do we currently order and receive supplies?
- Why is it done this way?
- What potential is there for creating efficiencies?
- What is the cost and environmental impact of current practice?



Baseline emissions – main supplies

EMISSIONS (EURO V)



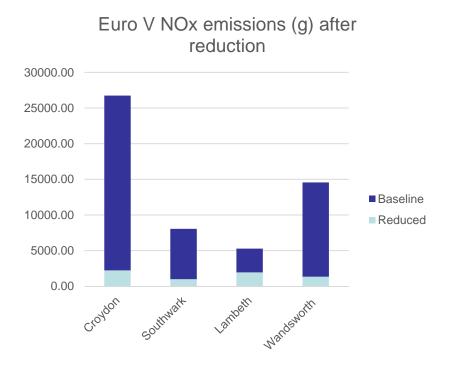


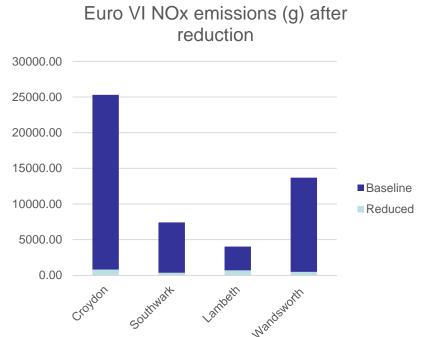
"Efficient Deliveries Hierarchy"

- Reduce
- Share
- Consolidate



Modelled emissions – reduced deliveries

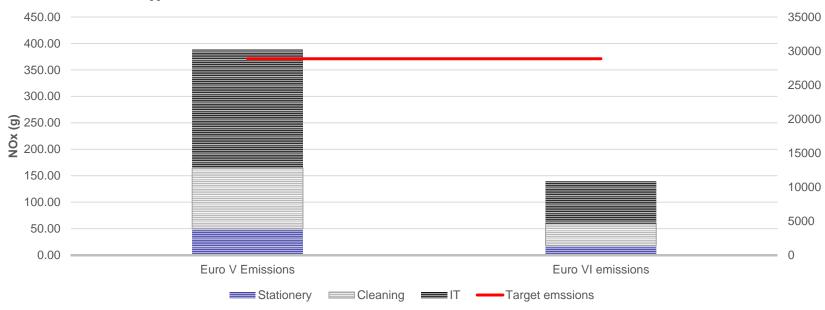






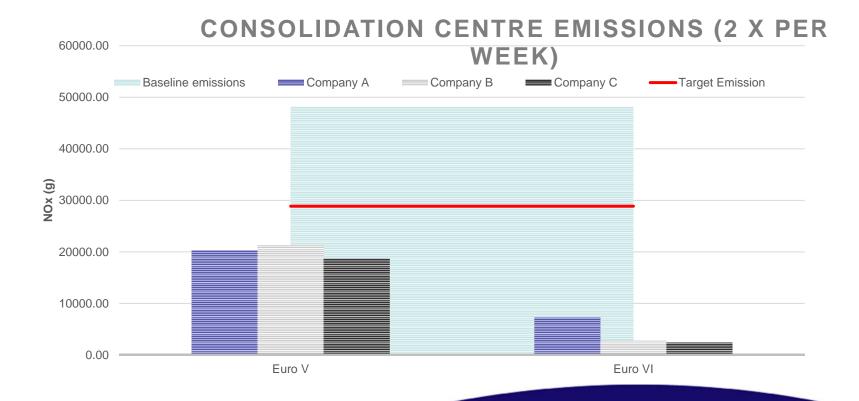
Modelled emissions – Shared supplier







Modelled emissions – Consolidation Centre





Obstacles

- No perceptible problem
- Disconnection between own behaviour and wider issues
 - "Reducing congestion is TfL's problem"
 - "Improving air quality is down to the Mayor/council"
- Commercial needs
- Reluctance to change
- Perception of no control/additional cost
- Time/resources



Authors recommendations – short term

- Consider deliveries in all contracts
- Local suppliers
- ULEVs
- Work related road risk (WRRR)
- Transparent pricing structure



Authors recommendations – medium term

- Business engagement
- Identify areas for micro-consolidation
- Planning conditions for new developments
- Mandatory DSPs in London Plan
- ULEZ upgrade to require delivery vehicles to be ultra-low emission



Authors recommendations – Long term

- Establishment of North, East, South and West London consolidation centres
- Congestion charge exemptions for consolidation centre vehicles
- Mandatory zero emission delivery vehicles within Central London



Thank you for listening.

For further information please contact schoongh-campbell@Lambeth.gov.uk
http://love.lambeth.gov.uk/low-emission-logistics-project/

