

Mapping the Cycle Logistics Sector in London

Identifying cargo bike hub and delivery radius
distribution across London

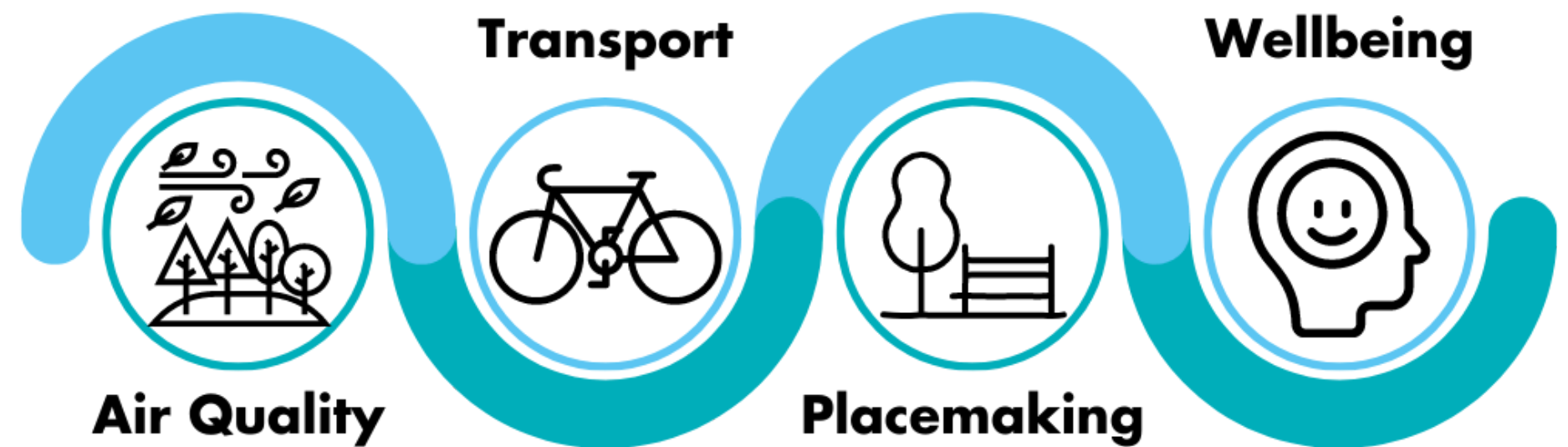
March 2023



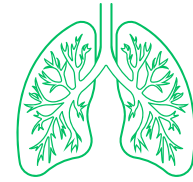


About Cross River Partnership

Cross River Partnership (CRP) is a partnership delivering environmental, economic and community-focused projects. We support public, private and voluntary organisations to creatively address challenges around air quality, transport, placemaking and wellbeing.



Why is mapping cycle logistics important?



In London, 9,400 premature deaths are attributed to poor air quality.

This can cost between £1.4 and £3.7 billion a year to the health service.



Despite this, the number of deliveries are becoming unmanageable, with 450 million parcels delivered in 2020 in London, and this could double by 2030.

20% of London's deliveries are made up of freight traffic on our roads



Cargo bikes cycle logistics therefore have the potential to significantly reduce congestion and improve air quality in London, saving money, costs and time.

To increase the amount of freight delivered by cargo bike, it is important to understand which areas of London are well served, and also identify areas that could use more support to implement cargo bike hubs or have more cargo bikes operating in the area. This will have a specific focus on London Borough of Lambeth and London Borough of Southwark, as the core borough's Imapct on Urban Health operate in.

Similarly, understanding the capacity, availability, costs and environmental impact of cargo bikes is critical to encouraging business participation in the use of cargo bike couriers and cycle logistics.

What is a cargo bike?

Cargo bikes are a bike that are designed to carry more than just their rider. In the context of cycle freight, a cargo bike can carry anything that can be delivered to another business or customer, whether that is parcels, packages or letters to cases of beer, coffee, office supplies, flowers, and much more, delivered by cargo bike couriers.

Below are some of the types of cargo bikes that you may see out and about on London's roads, and some of the friendly couriers you may have seen.

Types of Cargo Bikes

TWO-WHEELERS



Butcher's Bike



Compact Cargo



Long John



Bakfiets / Box Bike



Long Tail



Transporter

THREE-WHEELERS



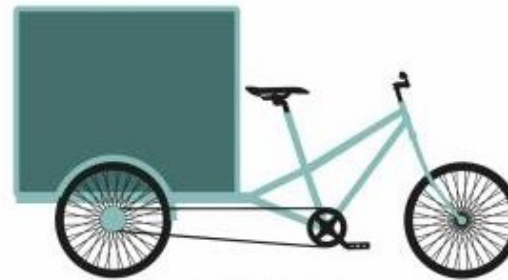
Coffee Trike / Cargotrike



Christiania / Cargotrike / Bakfiets



Rickshaw / Trishaw / Velotaxi



Heavy Duty Delivery Bike

[Image license link](#)

FOUR-WHEELERS

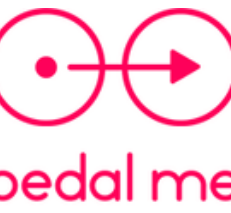


EAVs (Electrically assisted vehicles)

Selection of Cargo Bike Couriers in London



delivery mates
Fast and Friendly



Benefits of Using Cargo Bikes in London

There are huge benefits to using cargo bikes and using cargo bike couriers in London:



Fast & efficient last mile delivery times – even more reliable than vans in much of London!

Zero tail-pipe emission, so better for our health and for businesses' sustainability, CSR and ESG targets



Access to 900km of London cycle network

Many different sizes, types and purposes, with couriers able to transport up to 300kg using a trailer or purpose-built cargo bike



There are many couriers throughout London providing pickup and delivery as well as insurance, storage, maintenance and customer service.



A variety of service options, such as couriers providing business to business, business to customer, registered bike taxis and white labelling services.

Couriers have access to 3.5 million people and 200,000 businesses in inner London



Cargo bike couriers can deliver very far, with some operating with a 9-mile delivery radius from their hub using electrically assisted bikes



Less parking fines, as on average van and lorry couriers can spend £500,000 per year on parking fines

Environmental Benefits of Cargo Bikes

More than 20% of London traffic is from freight & deliveries. Transport is the largest emitting sector of GHGs and accounts for 50% of domestic Nitrogen Oxide emissions. Supporting cargo bike micro logistics hubs can reduce this significantly.



100 Cargo bikes on the road for a year would save:

1337.15 Sq metres of artic ice



9,142 football pitch-sized worth of forest fires

£74,986 worth of healthcare and productivity costs

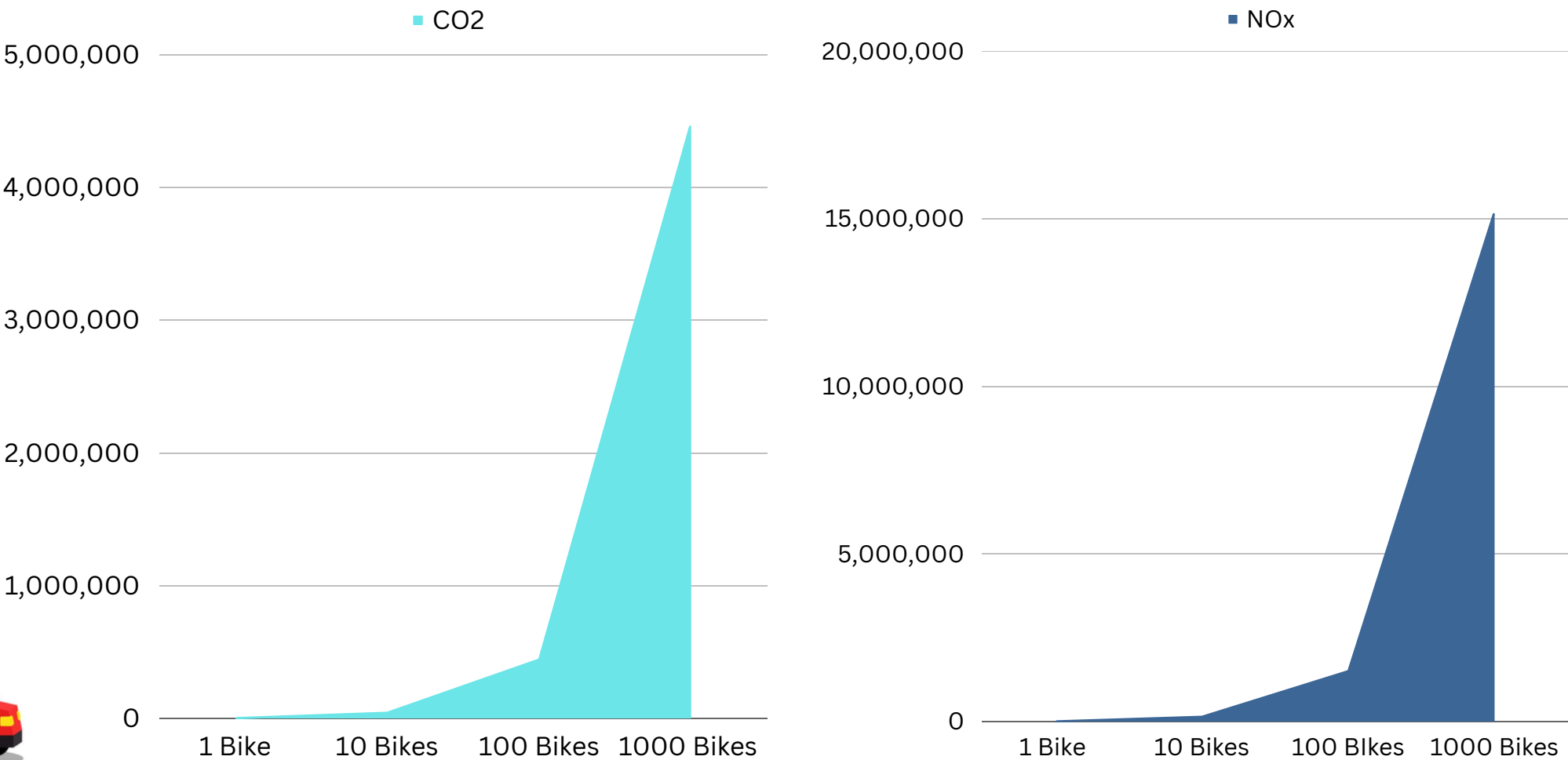


Vans

Diesel vans up to 67 times more environmentally damaging than Cargo bikes

The percentage of emissions from vans vs other road users as doubled since the 1990s

Congestion cost the average London road user £1680 in 2018



Air quality improvements when moving from diesel vans to cargo bikes calculated using CRPs clean air tool*

*asssuming 350km a week per bike for a year

Logistical benefits of using Cargo Bikes in London

Distances Covered

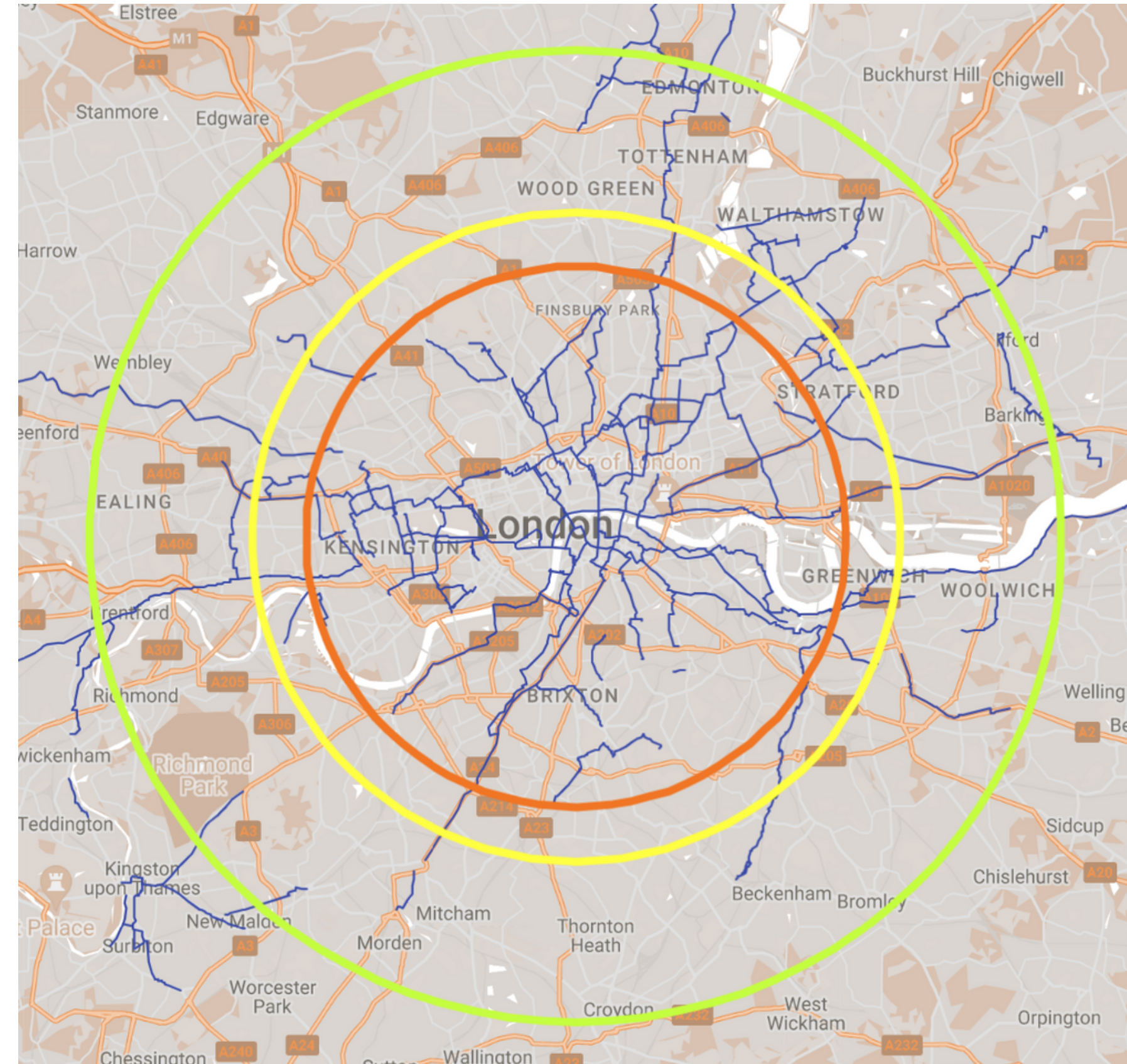
Most cargo bike firms advertise a delivery radius of 5 or 6 miles from central London (red and yellow circles respectively). However some firms will deliver up to 9 miles with electrically assisted bikes (green circle). This covers a huge area of central and outer London that can be accessed quickly, cleanly and efficiently by cargo bike couriers.

Times Covered

Most cargo bike firms deliver at least between 7 and 7 Monday to Saturday however many will deliver 24/7 meaning that delivery can be achieved cleanly and efficiently whenever required.

Goods Covered

Cargo bikes can carry a huge variety of light freight. This includes, but is not limited to, consumer parcels, food, medical supplies, documents and office supplies. As well as being clean and efficient the vast range of different types of bikes makes them extremely flexible.

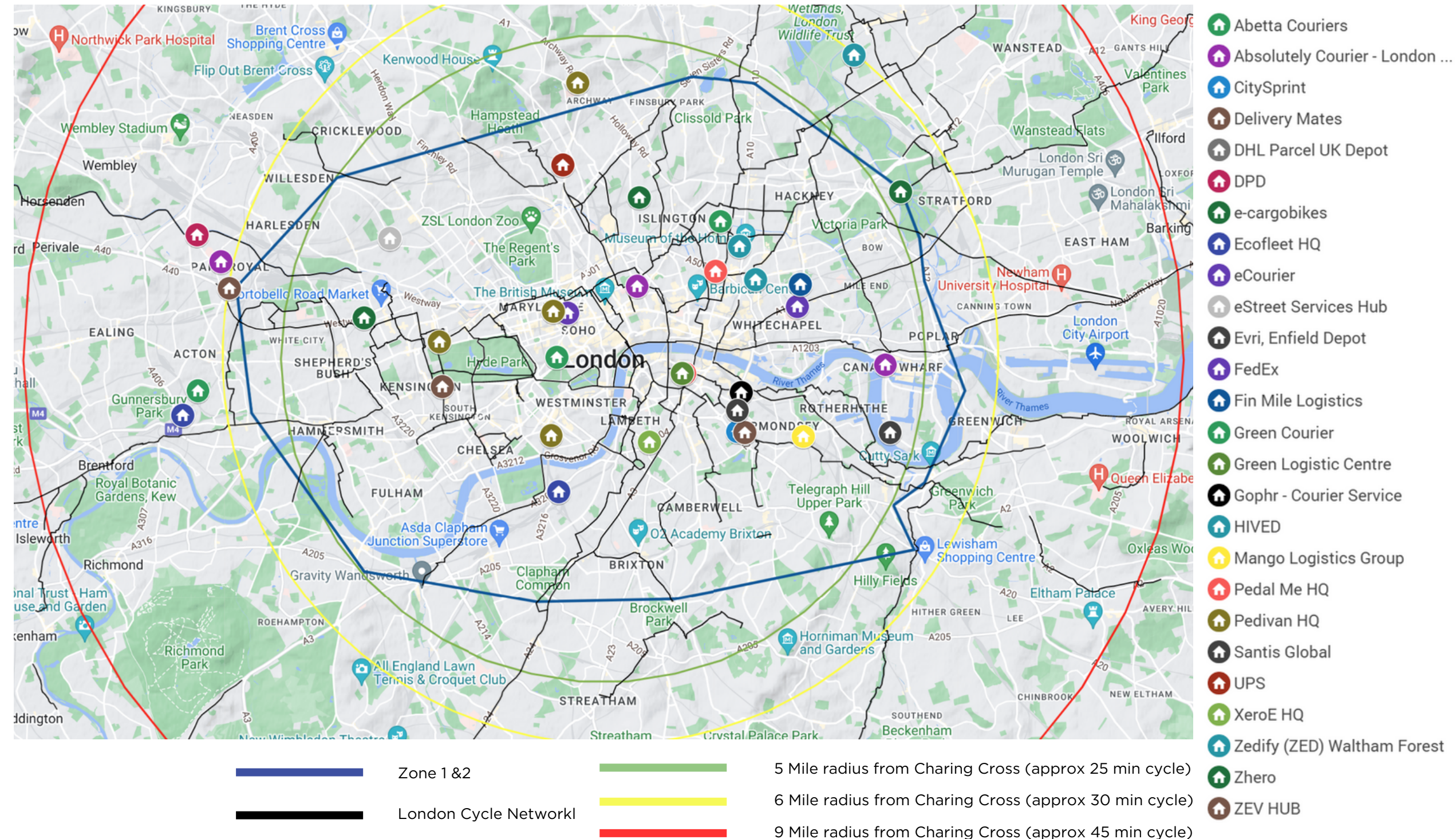


Mapping Cargo Bike Micro Hubs and Delivery Radii

CRP have mapped the distribution of cargo bike micro hubs in London from publicly available information and information provided by operators. This helps to understand where there is density of cargo bike hub sites, and where they may deliver to. As seen from the map

- There is a high number of couriers ranging from global firms to local providers
- Most hubs are concentrated in central London zones 1 & 2
- North of the river is generally better served than south of the river

A micro-logistics hub is a small site that couriers use for their day-to-day deliveries as a place to receive, sort and then send deliveries to their destination, where their cargo bike fleet may be stored.



Lambeth & Southwark

The London Borough of Lambeth and London Borough of Southwark show some key patterns that might show where there is great need for a micro-logistics hub across the two boroughs.

We have identified 7 hubs in the borough of Southwark and only one in Lambeth



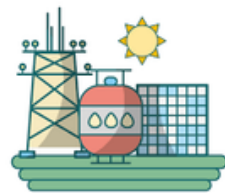
Hubs concentrated in the north of the boroughs



Opportunity for more hubs in the central and southern areas















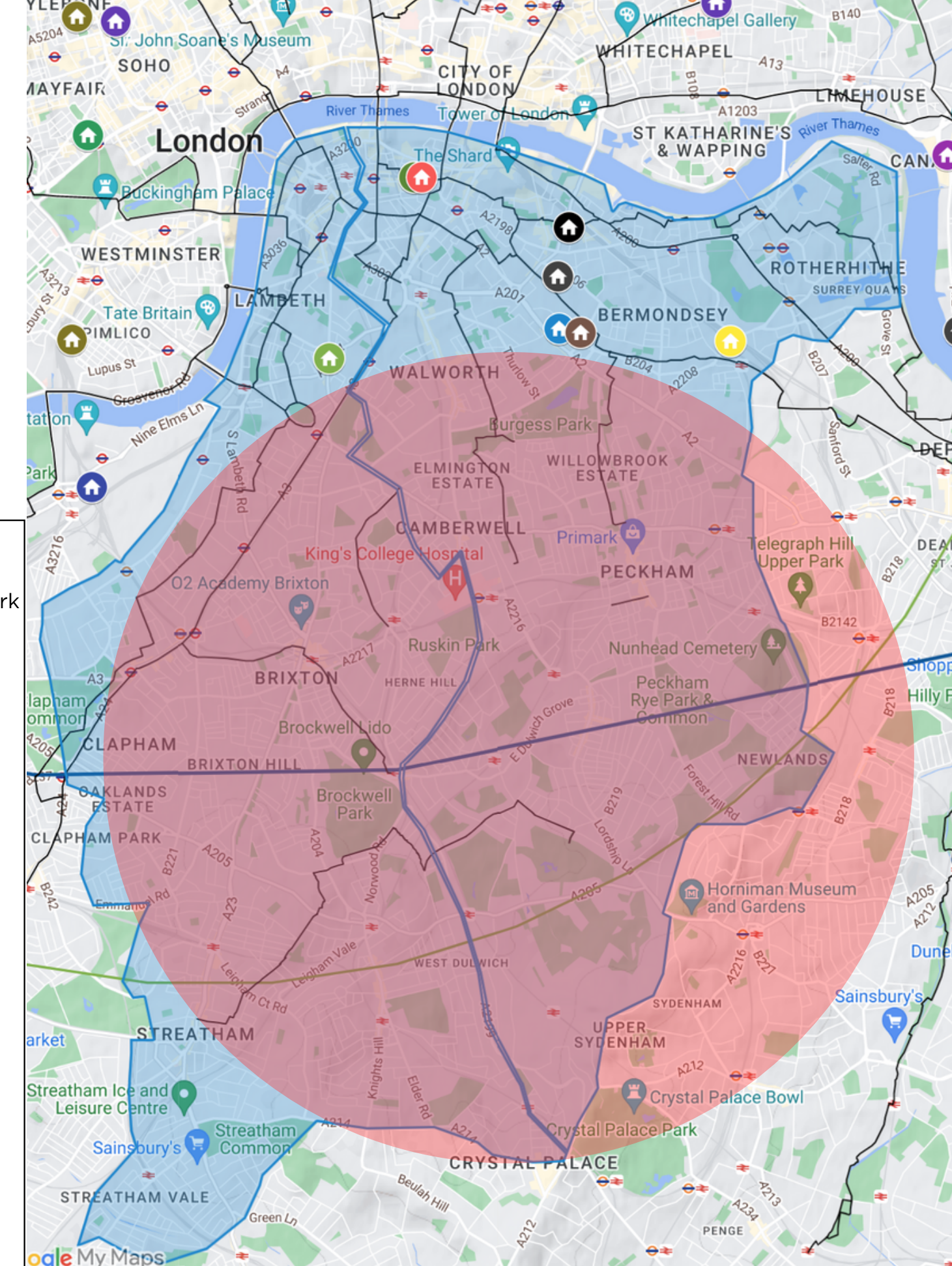
Clapham, Brixton, Peckham, Dulwich, Streatham and Crystal Palace all potential areas to target



5 industrial hubs in the targeted underserved area.

Map legend

-  London Cycle Network
-  Zone 1 & 2
-  CitySprint
-  Delivery Mates
-  Ecofleet
-  Green Logistic Centre
-  Gophr - Courier Service
-  Mango Logistics Group
-  Santis Global
-  XeroE HQ
-  ZEV HUB
-  Underserved area



Lambeth & Southwark: Industrial sites and Car Parks

Industrial sites and car parks can be good locations for micro logistics hubs as they often have under utilised land with road, rail and cycling connections. It is important to avoid residential areas to allow logistics hubs to avoid areas with high levels of public footfall.

5 industrial sites and 5 potential car park sites identified in the underserved area

Number of key transport hubs

Links to large rail hub

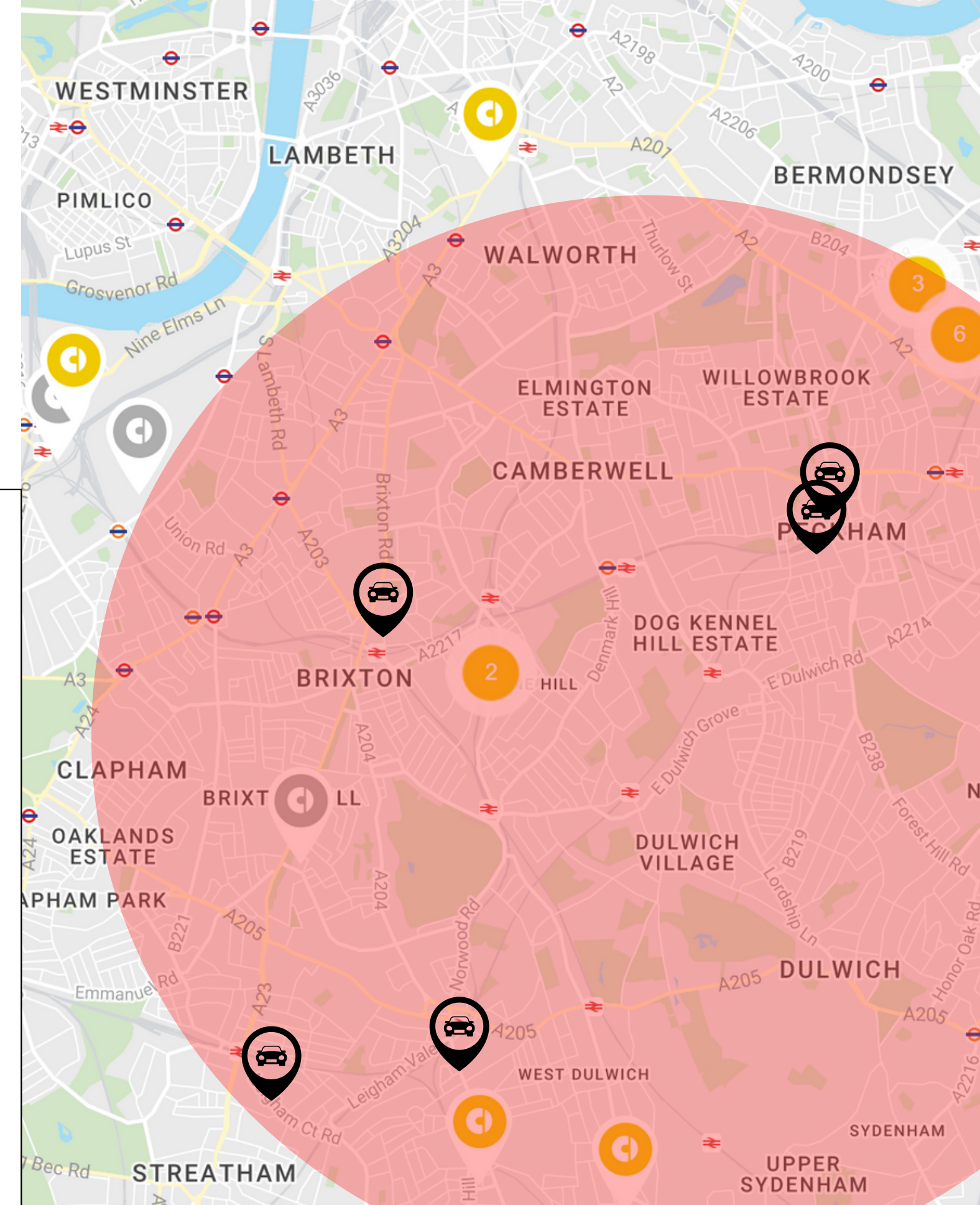


Car Parks:

Choumert Grove car park SE15 4RB
Peckham Town Centre car park SE15 5HQ
Popes Road, Brixton, SW9 8PQ
Leigham Court Road, Streatham, SW16 2PJ
Norwood - Waylett Place - SE27 9AE

Industrial Sites:

Stone Trading Estate Herne Hill, SE24 0JF
Newington Industrial Estate Newington, SE17 3AZ
Somers Place industrial estate Brixton, SW2 2AL
Barratt Industrial Estate West Norwood, SE27 0DJ
Hamilton Road industrial estate West Norwood, SE27 9SF



Contact Us

Susannah Wilks (Director): susannahwilks@crossriverpartnership.org

Fiona Coull (Programme Manager): fionacoull@crossriverpartnership.org

Ross Phillips (Sustainable Transport Project Manager): rossphillips@crossriverpartnership.org



www.crossriverpartnership.org/newsletter



crp@crossriverpartnership.org



07966 201 695



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CRP YouTube Channel

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