CRP's Connect 4 Series: Session 3



Mitigating the negative impact of road traffic in London: **Reduction, Innovation and Legislation**











Delivering London's Future Together

SUPPORTED BY

MAYOR OF LONDON



Today's Agenda



Isidora Rivera Vollmer

Ollie Bolderson





Delivering London's Future Together

Gordon Sutherland Mark Thirkell Morag Robertson

Discussion and questions

SUPPORTED BY

MAYOR OF LONDON



Please post your questions and thoughts throughout this session in the chat box



Jacobs



CROSS RIVER PARTNERSHIP Delivering London's Future Together

MAYOR OF LONDON





Annual Report 2021 - 2022 Business Plan 2022 - 2023

CROSS RIVER PARTNERSHIP

Delivering London's Future Together

people who live, work and visit these places.



I am delighted to be writing this introduction from such a positive perspective after the years we've all just lived through. CRP has weathered the storm incredibly well. From cutting annual fees to support our BID partners to cutting our coat according to our cloth in terms of costs, we've managed to maintain and often enhance our support to you and our projects throughout. Working to support the climate emergency remains a top priority for us all and our unique history of utilising our role withing the public/private sphere has made it possible. Being part of the CRP Board has become one of the proudest parts of my working life and I hope you all appreciate, as much as I do, our relationships and the support we all receive from our wonderful team. 2022 is going to be another year of challenges and rewards. Let's get to it!

Simon Pitkeathley, CRP Co-Chair, CEO, Camden Town Unlimited & Euston Town BIDs

I'm looking forward to another year of collaborating with our partners to bring positive change to London. Together we tackle many projects, including air quality, greening spaces, reducing congestion, cultural endeavours, active travel and more. It's gratifying to see our work take shape and improve the quality of life for Londoners, and even better when it serves as a template for other cities.

Sefinat Otaru, Project Manager, Cross River Partnership

Cross River Partnership brings people together across London, across sectors and across communities to develop and deliver far reaching and sustainable ideas and projects. This collaboration ensures a London for all that live, work and visit our capital.

Keith Bottomley, CRP Co-Chair, Vice Chairman of the Policy and Resources Committee Chairman, Port Health and Environmental Services Committee

At Central District Alliance, we are proud supporters of the work CRP have done, and continue to do, across London. We are working directly with the CRP team on delivering the Clean Air Villages 4 programme, which will have a direct impact on air quality in the capital. We are committed to working in partnership with organisations like CRP and will champion their work alongside CDA's own sustainability priorities. The work they do to bring the London BID community together on key issues such as climate resilience is incredibly valuable, not least as the capital city is pulling together more than ever in response to the COVID pandemic.

Debbie Akehurst, Chief Executive, **Central District Alliance**

cities.

Freddie Talberg, CEO and Co-Founder, EMSOL

ecofleet moved into its warehouse in Battersea in August 2019 and began operating as one of London's last mile zero emission cargo bike delivery service providers. In October 2019 Cross River Partnership passed by for a visit and since then an amazing collaboration has ensued, taking our team of riders to five south London boroughs, covering 2,003 miles, with a savings of 797 kg CO2e emissions. This would be equivalent to charging 96,913 mobile phones. At the time, as newcomers to this industry, CRP's belief in our work, gave us not only validation of our mission but also marked them as one of our first valued clients. Serving the various London Boroughs including Westminster, Lewisham, Merton, Richmond-upon-Thames and Wandsworth has been highly rewarding, knowing that the CRP team is doing its best to investigate, identify, educate and thereby help improve London air quality through great collaborations not just with ecofleet but other bike operators in the greater London area. Clients in this area have had the chance to try an alternative means of transport replacing polluting vans and lorries and some have become clients going forward.

Farah Asemi, Founder and CEO, ecofleet mindful delivery

CRP is a vital partner for innovators and they have given EMSOL the opportunity to prove our pollution solution in a new environment – along the River Thames. The Clean Air Villages 4 project is an important test bed for the future of freight movements in our cities and will be the exemplar evidence and solution that we can roll out across London and take to other



It's been great having the support of the CRP team. Their work exploring the possibility of implementing a micro-consolidation hub in West London for Museum deliveries is of real value and wouldn't have happened without them. We're really looking forward to the outcomes of this study.

Kimberley Lewis, Environment and Sustainability Officer, Natural History Museum

CRP continues to go from strength to strength. We are extremely grateful to all of our funders, partners and associates for their ongoing support. The need for collaboration has never been stronger. I know we will all rise to the challenges of doing our bit to address environmental and economic issues effectively in London and beyond.

Susannah Wilks, Director, Cross River Partnership

The Port of London Authority has worked with Cross River Partnership through the development and implementation of innovative projects to tackle London's environmental challenges and to secure modal shift. The PLA supports CRP's vision across London to promote the sustainable use of the River Thames to help tackle the climate emergency.

James Trimmer, Director of Planning and Development, Port of London Authority













Speaker 1

Isidora Rivera Vollmer

CROSS RIVER PARTNERSHIP Delivering London's Future Together

SUPPORTED BY





CRP's Clean Air Villages 4 (CAV4)

Jaco

- Defra-funded project led by Westminster City Council, in collaboration with 26 project partners
- Aims to improve air quality across different London 'villages'
- Building on award-winning CAV1, CAV2 and CAV3 programmes
- Freight Solutions include Consolidation, Distribution, Mode, Technology and Policy elements

transport consultanc



Consolidation

Delivering London's Future Together

CROSS RIVER PARTNERSHIP CLEAN AIR VILLAGES









Distribution

Mode

Technology

Policy



















Department for Environment Food & Rural Affairs

SUPPORTED BY

Study completion and publishing

Spring 2022





Why did we commission this feasibility study?

- A shift towards rail freight can tackle issues such as:
 - Air quality
 - Congestion
 - Sustainable last-mile delivery challenges
- Businesses in London interested in incorporating rail freight into their logistics are looking for viable solutions and guidance







MAYOR OF LONDON

SUPPORTED BY





What are the aims of this feasibility study?

- Identify and understand barriers and opportunities for rail freight.
- Help to enable the use of rail freight for supply chains and logistics.
- Include helpful learnings and recommendations on how to solve identified challenges surrounding rail freight into London.









MAYOR OF LONDON



Who are we aiming to target?

- Retailers / Businesses / Organisations
- Logistics providers
- Freight operators
- Rail operators

Jacobs

- Wider rail industry
- Facilitators (BIDs, local authorities, landowners)

momenti

transport consultancy





MAYOR OF LONDON

SUPPORTED BY





What will this study include, for example?

- Research on past trials as well as current freight and rail models
- Key findings of stakeholder engagement
- Summary of barriers and key challenges
- Summary of identified opportunities
- Recommendations and viable solutions









MAYOR OF LONDON







What next?

- Momentum Transport Consultancy is carrying out this study
- Study to be published in spring 2022
- Study will be shared with CAV4 project partners and also posted on CRP's website









MAYOR OF LONDON



CRP's next projects:

- Clean Air Logistics for London (CALL)
 - Defra-funded project
 - July 2022 June 2023
 - to be delivered with 10 project partners
 - River freight supported by zero emission delivery methods
- Clean Air Freight (CAF)
 - Urban Health funded project
 - May 2022 June 2023
 - o public and private sector partners
 - Rail freight into London and last-mile logistics







MAYOR OF LONDON

















Speaker 2 **Ollie Bolderson**



SUPPORTED BY

MAYOR OF LONDON



Who we are

50+ person team of **Planners Modellers** Engineers Analysts **& Designers**



By combining vision, technical understanding and design, our integrated team and services ensure that transport and mobility are accounted for in the development of successful urban and regional spaces.

With offices in London, Scotland and Canada, we work with urban and regional development stakeholders around the world to develop areas for the long term and to ensure the sustainability of the built environment. We aspire to create spaces, buildings and places that operate efficiently whilst being lively and welcoming for the people who use them. We're proud of our lasting relationships with our clients, including architects, planners, developers, public institutions and local authorities. Our team - of transport planners, engineers, modellers and analysts - embraces the unique challenges facing our projects. Tackling the complexity of transport issues by developing innovative and bespoke responses for each scheme.

Jacob

EDINBURGH



Delivering London's Future Together

Momentum is an integrated transport consultancy. We specialise in the study of transport and mobility in complex environments.





The Study

The Premise

Freight vehicles disproportionately contribute to key issues in cities:

- Air quality
- Road safety
- Congestion

Transitioning to more freight by rail could address some or all of these issues.

The Study

Feasibility study into expanding the rail freight network in London.

Understanding where trials have been undertaken and what we can learn.

Focussing on both freight trains and adapted passenger trains.

Considering different demand and goods types.









CROSS RIVER PARTNERSHIP Delivering London's Future Together

MAYOR OF LONDON

SUPPORTED BY









Parameters

Limiting impact on rail timetabling

Focus on terminus stations

Demand and goods match

Goods that are easier to consolidate and lend themselves to bulk packaging will be best for freight by rail

Learning from a wide range

River freight – e.g. DHL service; Walbrook Wharf for CoL waste Construction-specific rail and river freight Cargo planes Interviews with major stakeholders









MAYOR OF LONDON

SUPPORTED BY





Trials and case studies

Samada, Logistics subsidiary of Monoprix, France

Operational 2007-2017. Warehouses siding the rail line, which allowed direct transfer to the carriages.

Connections had to be built between the warehouses and the railway network, and an agreement was needed with the SNCF (French national railways) for the shuttle service and for the use of 3,700sqm of platforms in Bercy. Goods were then dispatched with natural gas vehicles.

5PL and East Midlands Trains (EMT), UK:

Same-day service is provided for small volumes of freight (food and drink, legal documents and computer equipment) in secure compartments on High Speed Trains operating between Nottingham and London St Pancras International.

Door to door service is provided through the integration of first and last mile courier operations.

Orion High Speed Logistics, UK

Converted passenger trains used to carry freight. The interior of the train was stripped of seats and fitted with metal floors and equipment to hold wheeled cages full of retailers stock. This could accommodate significant volumes of parcels.







CROSS RIVER PARTNERSHIP Delivering London's Future Together



SUPPORTED BY

MAYOR OF LONDON



Interviews – key takeaways

Passenger trains

COVID impact on passenger demand may free up capacity. Freight trains are already in very high demand by large singular operators like major supermarkets.

Commercial challenge

Freight operators can work to very low margins – 1-3%. This can limit the ability to invest in innovative approaches with high up-front cost and more risk.







The main motivation is road freight cost

As it becomes more expensive to drive in central cities – ULEZ, fuel costs, HGV driver shortages – operators are increasingly open to non-road operations. Future Road User Charging in London could be a catalyst for change.

The appetite is there

All of the key major players want to introduce rail freight into their daily operation. They are largely motivated by sustainability – end users care increasingly about their supply chain, freight operators look to minimise carbon footprint, and Network Rail and TfL are

Jacobs



CROSS RIVER PARTNERSHIP Delivering London's Future Together



Public realm impact

Stations are busy places – major pedestrian movement hubs, retail units, interchange, onward facilities – buses, pavements, roads. Careful consideration needed to integrate freight into this already complex picture.





Station Assessment

Limiting impact on rail timetabling

Focus on five terminus stations in London:

- Liverpool Street Station
- London Euston Station
- Old Oak Common Station
- London Victoria Station
- London Waterloo Station

Demand and goods match

Goods that are easier to consolidate and lend themselves to bulk packaging will be best for freight by rail: High value goods, bulk items, non-perishable goods.

Spatial demand

Land-use demand for these goods ranked:

- 1. Residential
- 2. Non-food retail
- 3. Offices
- 4. Food retail

Jacobs





MAYOR OF LONDON









CROSS RIVER **Delivering London's Future Together**

MAYOR OF LONDON











CROSS /ER **Delivering London's Future Together**

MAYOR OF LONDON











CROSS RIVER **Delivering London's Future Together**

MAYOR OF LONDON

SUPPORTED BY





15

14

Potential Score 10







CROSS RIVER **Delivering London's Future Together**

MAYOR OF LONDON

SUPPORTED BY



A3(







CROSS RIVER **Delivering London's Future Together**

MAYOR OF LONDON

SUPPORTED BY





Interim Findings & Recommendations





Overhead train carriage

b)





Jacobs



CROSS RIVER Delivering London's Future Together

MAYOR OF LONDON

SUPPORTED BY







Interim Findings & Recommendations

Policy Recommendations

Road User Charging in London: Will catalyse non-road freight.

Real-estate management: Save spaces at stations for operational uses. There is a potential to coordinate with Great British Railway, and discuss the opportunity of using trains holding areas near stations.

Manage station / road interface space: Prioritise pedestrians around stations to implement last-mile vehicles (cargo bike / EV vehicle) infrastructure. This can take the form of soft landscaping well incorporated into the public realm around the station and only activated during delivery times.

and bulk items.

Spatial strategy: Implement trials in strategically located stations, within walking / e-bike distance of higher potential land-uses: London Victoria Station, London Euston Station, Liverpool Street Stations.

Container adaptation: Focus on converted passenger trains with temporary or permanent adaptations.

Rail / Freight forum: Improve understanding of requirements and operations to create a friendlier design and policy environment and encourage partnership.

Jacobs



Delivering London's Future Together

Operational Recommendations

Types of goods: Focus trials on high value goods, non-perishable goods

















Gordon Sutherland Mark Thirkell Morag Robertson

Jacobs

SUPPORTED BY

MAYOR OF LONDON



Environmental benefits of CLPs



Jacobs



CROSS RIVER PARTNERSHIP Delivering London's Future Together

MAYOR OF LONDON



If this is the answer – what is the question?

35%

How much of London's HGV traffic is related to construction?







MAYOR OF LONDON

SUPPORTED BY





What are Construction Logistics Plans?

- A Construction Logistics Plan (CLP) is a key tool for planners, clients/developers, construction contractors and their • supply chains.
- The CLP focuses on construction supply chains and how their impact on the road network and the site environment can be minimised.











SUPPORTED BY





Why Construction Logistics Plans?

- The Mayor's Transport Strategy promotes the use of CLPs.
- For all planning applications that meet the criteria for referral to the Mayor, comprehensive transport assessments, travel and CLPs will need to be submitted in accordance with TfL's best practice guidance.
- London's local authorities develop their own guidance and policies about the use of CLPs and what they need to include.



Jacobs



CROSS RIVER PARTNERSHIP Delivering London's Future Together



SUPPORTED BY





Environmental Benefits of Construction Logistics Plans

Congestion reduction

- Congestion reduction can be achieved by more efficient management and coordination of construction vehicles going to and from a site.
- The CLP will state what delivery booking and scheduling system is used to organise deliveries.

Environment

Environmental benefits through minimising the number of journeys needed to service a construction site and applying best • practice efficiencies to those journeys.

Safety

- CLPs encourage fewer road trips.
- CLPs oblige clients and developers to set out their strategies for addressing risk to vulnerable road users
 - Vehicle safety equipment
 - Driver training standards

Jacobs







SUPPORTED BY





How do CLPs improve air quality and carbon?

- Planning deliveries to maximise vehicle capacities
- High delivery success rates
- Using modern, low emission vehicles
- Making optimal use of vehicle management
- Using rail and water freight wherever possible
- Off site manufacturing / DfMA / modularisation
- Consolidation, holding areas
- Re-timing and off peak deliveries
- Innovation







MAYOR OF LONDON

SUPPORTED BY





Driving innovation - Construction Delivery by Cargo Bike

- Total distance for van (restricted route and holding) = 33.6 km
- Total distance by cargo bike = 21 km
- CO_2 (diesel 25mpg) for van = 10 kg CO_2 /km
- Approx. total time by van (incl. compliance check) = 76 mins
- Approx. total time by cargo bike = 39 mins
- Cargo bike rider benefits (calories) = 310 kcal

Additional benefits of using cargo bikes include the ability to utilise cycle lanes and avoid associated congested areas thus reducing the cumulative impacts on the environment.

However, consideration needs to be given to rider competency, load distribution and obligations to other road users







MAYOR OF LONDON







Case Study: Tideway



momentum

transport consultancy

TIDEWAY ROUTE MAP

Jacobs



Proposed drive directio

Delivering London's Future Together

MAYOR OF LONDON

SUPPORTED BY







Case Study: Tideway

- At Tideway the primary concerns of local stakeholders and communities has included vehicle movement volumes, lacksquareroadworthiness and emissions. CLPs oblige the developer and the contractors to meet certain standards as may suit the local area. These concerns informed the Development Consent Order (DCO) which embedded commitments on Tideway to address them in consultation and agreement with local planning authorities
- By completing a CLP, contractors will be able to ascertain when certain materials, plant and equipment is needed in line with the programme, which in turn allows them to explore opportunities in terms of economies of scale during their procurement processes for example.
- The CLP also requires compliance with key initiatives such as FORS and CLOCS which help to ensure fuel efficiency of HGVs and other related vehicles such as vans.
- Through driver training obligations in CLPs, this reduces the risk of collisions and hence the social and environmental impact of deliveries on the locality









SUPPORTED BY





Food & Rural Affairs

The environmental benefits of CLPs: Tideway

- CLPs will also incentivise contractors to think about how best to transport what they need to and from site, with emphasis \bullet being placed on sustainable freight principles; i.e. the use of rail/water ahead of road and air, or a combination which produces the least emissions and associated risk.
- CLPs include commitments to adhering to the minimum standard set by the LEZ and ULEZ. There is no exemption allowed by simply paying the charge.
- Performance of the employers' contractors has been governed by a set of KPIs embedded within the Construction Logistics Plan (CLP). Performance reports are produced for presentation to key stakeholders every quarter where the EC's performance was reviewed, including areas for improvement. This contributed to an over 99% compliance rate for safety and environmental performance of road transport.











SUPPORTED BY

MAYOR OF LONDON



Food & Rural Affairs

What next for CLPs?

- Improved consistency / compliance and improved monitoring by Boroughs and TfL
- Better promotion of use and benefits creating good case studies, encouraging wider uptake outside of London - working with CLOCS
- Further work on proofs and promotion of the environmental benefits of CLPs
- Highlighting more examples of how CLPs help address the congestion and provide efficiency benefits
- Any scope for quantifying the benefits of CLPs based on empirical data?? For example the CLP has resulted in X amount of carbon reductions / has improved Air Quality by X compared with a baseline start.











SUPPORTED BY





Contact Information



Isidora Rivera Vollmer Project Officer Cross River Partnership isidorariveravollmer@crossriverpartnership.org



Ollie Bolderson Principle Consultant Momentum Transport ollie.bolderson@momentum-transport.com



Morag Robertson Logistics Manager Jacobs morag.robertson@jacobs.com







Jacobs





Mark Thirkell Project Manager & Stakeholder Engagement Specialist Jacobs mark.thirkell@jacobs.com



Gordon Sutherland Traffic and Logistics Specialist Jacobs gordon.sutherland@jacobs.com

Rachael Aldridge Communications Project Manager Cross River Partnership rachaelaldridge@crossriverpartnership.org

SUPPORTED BY













MAYOR OF LONDON

SUPPORTED BY

ŚŚ



CRP's Connect 4 Series





Delivering London's Future Together







MAYOR OF LONDON

SUPPORTED BY



Department for Environment Food & Rural Affairs

SESSION 4: Thursday 28th April 4pm - 4:45pm

CRP'S CONNECT 4 SERIES