

London living lab

Introduction Draft Implementation Plan

CITYLAB meeting
First meeting of the Living Lab Advisory Group

London

12 October 2015





London Living Lab Partners

- Jacques Leonardi, Julian Allen, UoW
- Sam Clarke, Gnewt Cargo
- Andrew Lowery, TNT UK
- Jacqueline Short, TfL





Objectives and general **question** to be answered by the implementation

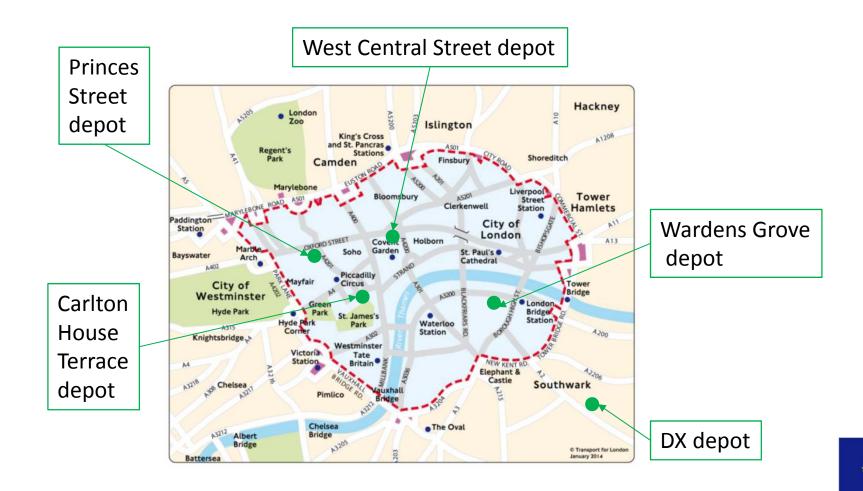
- What is the best possible management solution for clean inner city distribution, consolidation and clean vehicle use, from the point of view of a local authority, a large carrier, and a small carriers' carrier?
- The implementation involves an integrated or co-operative supply chain approach between carriers

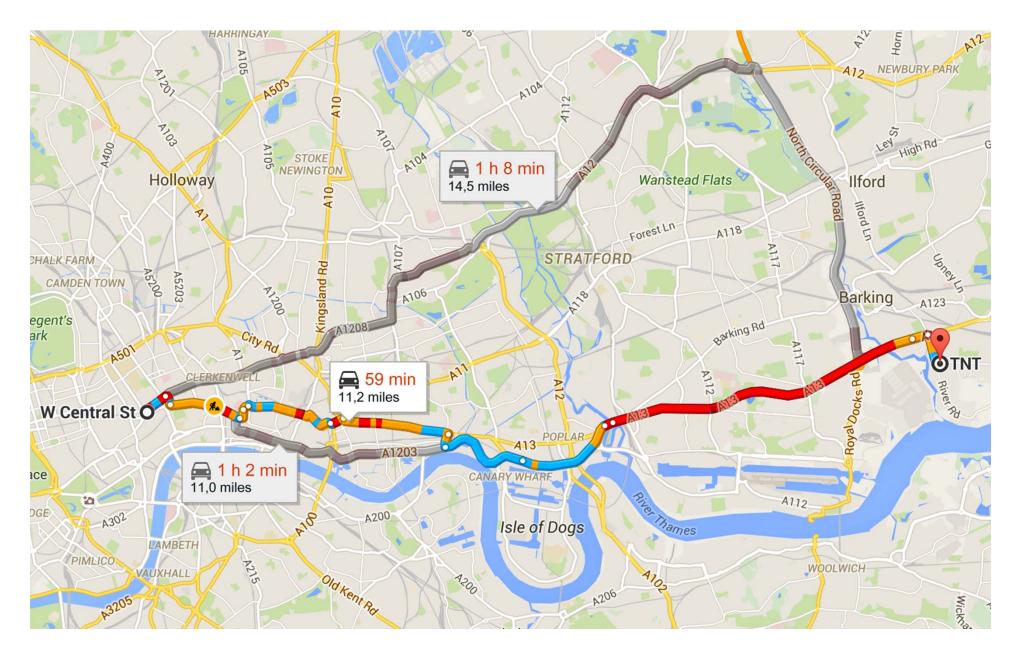




Geographical characteristics

Gnewt Cargo depots and delivery area Central London Congestion Charge Zone





From TNT depot in Barking to Gnewt Cargo depot in Central London: 11 miles



Major attractors of people & goods

- City Centre, West End
 - >2 mio commuters daily
 - About 100,000 trucks and 300,000 vans per day entering the outer ring
 - 40 mio foreign visitors a year
- Ring of Logistics facilities in London East,
 North London, & along the Thames
- Increase in e-commerce and home deliveries throughout London





City Priorities

- Mayors transport policy includes logistics
- Transport for London Freight Plan in application
- TfL and GLA supportive of experimentations, freight consolidation and clean vehicles
- Rule in favour of clean deliveries: Exempt electric vans from Congestion Charge (but not from penalties for too long unloading stop)
- Reduce traffic and emissions
 - Lower Air Pollutants with LEZ
 - Less traffic with HGV>18t (LLCS)





Steps of the Living Lab Implementation

- Sub-target: Develop a Central consolidation centre
- Sub-target: Develop a fleet of Electric Vehicles
- Key task: Transfer TNT domestic freight (100% diesel) to Gnewt Cargo (100% electric)
- First stage: start with 9-14 routes
- Intermediate Evaluation
- Second stage: Upscaling and transfer to other depots and other business types





Steps and process

- Gnewt Cargo to monitor before and after small scale and large scale trials
- TNT to monitor previous parcels deliveries
- TNT and Gnewt Cargo implement the trial
- UoW to process data & compare business situations before and after trial
- UoW deliver intermediate impact assessment
- Living Lab takes decision on upscaling





Perceived issues

(being tackled in London living lab)

- Find and Develop a New Consolidation Centre or Depot in Central London
- Towards a zero risk trial in London: only focus on well known tests and design the trial in a way that brings for sure the expected results
- Long-term Growth for Electric Freight Vehicles and City Logistics Business



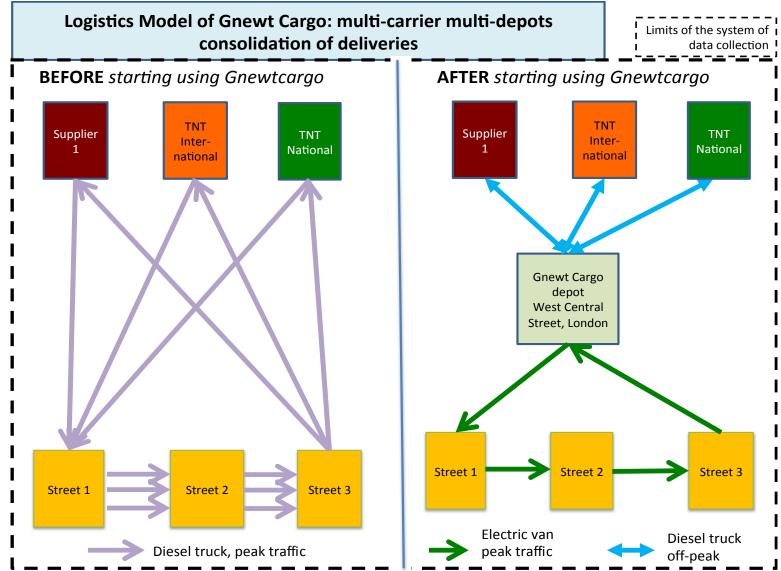
Methods

- Survey with quantitative before-after data collection, and data processing
- Meetings, qualitative story telling about the business contracting and cooperation
- Internal business impact evaluation, impact assessment for local authorities about traffic, emissions and road space occupancy and other criteria tbd





Proposed approaches (1)





Proposed approaches (2)









Proposed approaches (4)

- The parcels delivery business of Gnewt Cargo focuses on London Congestion Charge Zone.
- The company is performing City centre distribution as carriers' carrier with a centrally located consolidation centre, and pure electric van fleet.
- Key task is to be taking over additional business from TNT.





Proposed approaches (5)

- Switch from one carrier with standard fleet to Gnewt Cargo for goods coming from TNT National parcels network
- Instead of starting van deliveries from Barking, the goods will be transferred by truck to the Gnewt depot in Central London
- TNT will probably be giving to Gnewt about 9-14 van payload of each 60-80 parcels per day, out of national TNT network, for final distribution.



Performance indicators

- KPI: Total distance per parcel
- KPI: Number of vehicle on main road axis during peak traffic
- KPI: Amount of air pollutant emissions and CO2 and noise
- KPI: Costs per parcel and work-time per parcel





Timescales

When?

Aug-Dec 2015

Jan-Jun 2016

Jun 2016 – Mar 2017

Continuous

On request

What?

Planning phase

First phase of trial:

Small scale solution

Second phase:

Extension of solution

Meetings; data collection; data processing; reporting

Meeting presentations





Medium term steps

of the London implementation June 2016-March 2017

- TNT will be giving Gnewt Cargo more (additional) goods and parcels after positive evaluation of the most beneficial solution
- TNT will prepare the potential growth of the solution beyond London
- Exchange with other Living Labs of the CityLab project will possibly allow a replication in another city





Outlook

- Intermediate evaluation is foreseen in June 2016, to prepare the extension and scale-up phase
- Scale-up analysis including assessment of impacts and growth potential are integral part of the implementation
- End of trial foreseen in March 2017

