



Electric Vehicles encouraging uptake of alternatively fuelled vehicles for freight distribution in London

Ian Wainwright Transport for London 25th May 2010, Barcelona











Electric Vehicles

• Three strands:

- Mayor's Electric Vehicle delivery plan
- Alternative approaches
 - » Vantage
 - » Project 'EVA'
- Cargo bikes



MAYOR OF LONDON



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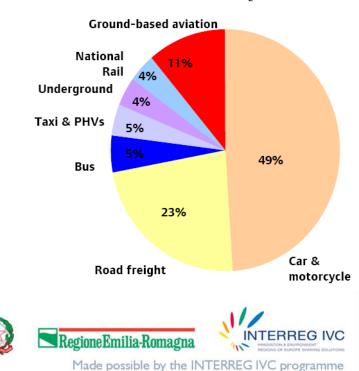
Electric Vehicle Delivery Plan for London

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NB - All vehicles, not just freight !

- Why EV?
 - Closest 'near to market' green technology
 - Air Quality
 - $> CO_2$
 - Noise
 - Energy Security
 - UK Automotive industry
 - Short trips
 - Available

 CO_2 emissions from the London's transport 100% = 9.6 million tonnes CO_2 - 2006









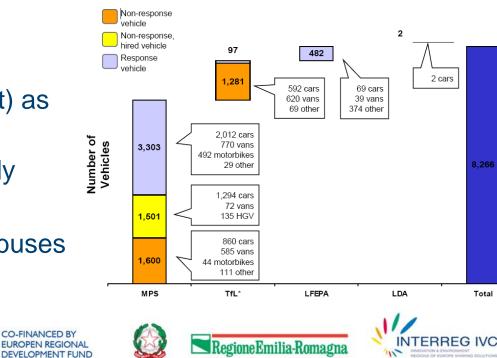
How Deliver the Plan?

Infrastructure

- > 25,000 charging points by 2015
 - 2,500 Publically accessible
 - 22,500 Private charging network
- Range of locations

Vehicles

- 100,000 (or 5% of London fleet) as soon as possible
- Greater London Authority family
- Suppliers
- Public sector, taxi/private hire/buses
- Commercial







How Deliver?

Commercial Fleets:

- Electric 10 & 'Green 500'
 - Encourage uptake
 - Cost effectiveness
 - Larger scale procurement

Incentives/marketing/communications

- National: exemption from purchase and annual vehicle tax
- London:
 - Parking
 - Congestion Charge
 - Car clubs
 - 'London' brand for EV

http://www.london.gov.uk/electricvehicles/







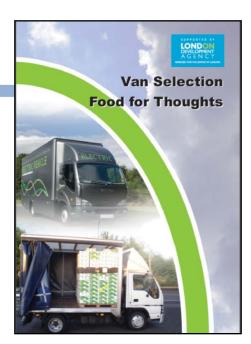




Vantage

- Part of Food infrastructure project working with Wholesale Markets
- Promoting alternative fuelled vehicle technologies
- Remove jargon and complexities behind eco vehicle choice
- Scheme produced:
 - » user friendly eco vehicle guide
 - » liaison with suppliers and vehicle converters
 - » vehicle selection calculator
 - » Feedback and analysis from eco vehicle trials
- http://www.foodforlondon.net/











EVA - Electric Vehicles for Advanced cities

- deployment of Electric Vehicles across Europe
 - 19 European cities and regions,
 - > 17 major European vehicle manufacturers
 - 12 European electricity providers
 - Plus leading research and IT organisations

Demonstration elements

- Electrifying London Borough Fleets
- Electrifying Car Clubs
- Demonstrating Rapid Charging

Strategic linkages with regional policy







Cargo Cycles Commissioned by London Borough of Camden

Jacques Leonardi University of Westminster 25th May 2010, Barcelona







Objectives of the trial evaluation

UNIVERSITY OF WESTMINSTER

 To evaluate the existing Office Depot deliveries to postcodes EC 1 - 4 using diesel vans

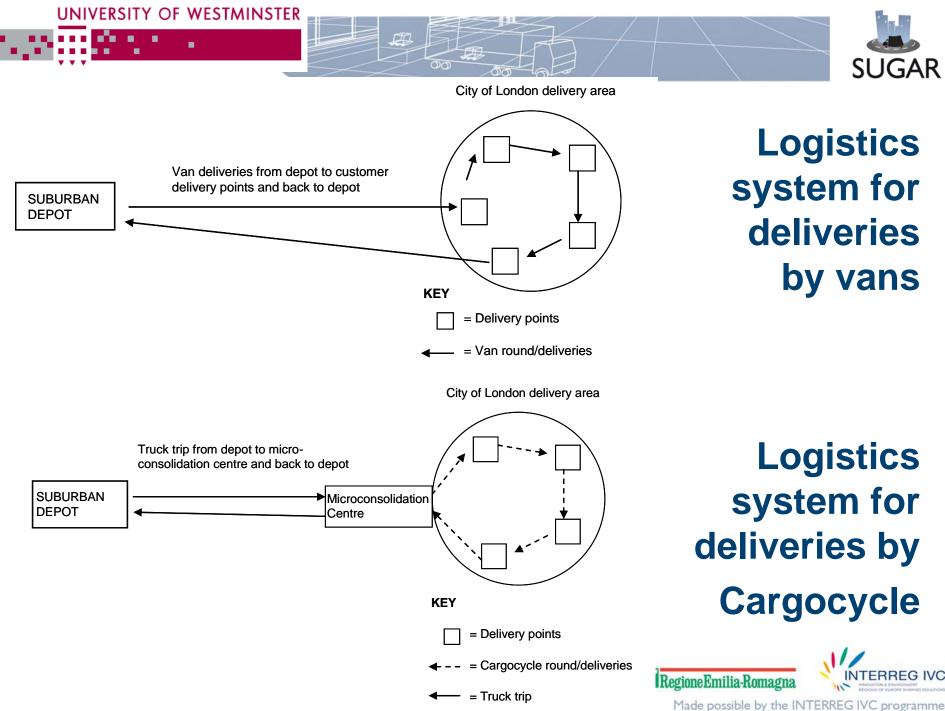


- To compare this with the new Gnewt Cargo logistics system implemented using Cargocycles for final delivery
- To evaluate the impacts on:
 - Energy use and greenhouse gas emissions,
 - Distance driven in London and in City Centre
 - Road space occupancy during parking for deliveries

















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Conclusion: Conditions for success

- The trial results are positive
- Following observations:
 - Size and weight of parcels are rather small
 - Delivery area in City Centre has a high density of clients
 - A small consolidation centre is available close to the delivery area
 - The type of business is suitable for Cargocycles (parcels, not pallets)



