London’s Freight Challenges: Can electric vehicles help?

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Current challenges
Can electric vehicles help?

Plugged-in Fleets Initiative
- 150 public & private fleets
- Increase fleet adoption of PIVs

Methodology
- Senior stakeholder buy-in
- Whole life cost & carbon analysis EV vs. ICE
- Drive cycle
- Infrastructure advice
- Overcome barriers
- Report with clear recommendations

Outcome
- 1,422 vehicles identified where business case exists
- Plus 1,300 viable pool cars
- 61% have adopted EVs or are planning to
Can electric vehicles help?

Range (and range anxiety)  Payload

...but there are challenges...

Electricity supply at base  Vehicles taken home (small vans)
Top banana: a success story

• Driving c. 60 miles per day
• Saving £3,000 per year vs. diesel Kangoo (WLC)
• Zero emission deliveries USP for business
Can electric vehicles help?

Range (and range anxiety)  Payload

...but there are challenges...

Electricity supply at base  Vehicles taken home (small vans)
Rapid charging

Increase effective range and alleviate range anxiety

Right-size battery; reduce impact on payload

Base / depot charging not critical

Overnight charging not critical
Can rapid charged EVs help?

• Yes, with the right conditions:
  • The right infrastructure in the right place
  • Supported by appropriate policy

• How to ensure infrastructure is located strategically?
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- Yes, with the right conditions:
  - The right infrastructure in the right place
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- How to ensure infrastructure is located strategically?
  - EST & TfL rapid chargepoint mapping project
  - Commercial vehicles up to 12.5 tonnes
  - Analysing telematics data
  - Isuzu / Paneltex providing vehicle data
Assessing potential for PIVs
• Select