



Good afternoon!



Greening your fleet: Challenges for local authorities?

Emissions controls...



“Be it known to all within the sound of my voice, whoever shall be found guilty of burning coal shall suffer the loss of his head”

Edward I, King of England 1273



Environmental: CO₂ emissions and air quality



Greenhouse gases (CO₂):

- Global warming, sustainability...
 - Reduction of fuel consumption
 - Use of alternative fuels



Noxious matter

Acid rain, air toxicity, smog, global warming...

- Technology known and available
- Harmfulness determined by age vehicle



Environmental: air quality and CO₂ emissions...



- Four regulated exhaust emissions:
 - Carbon monoxide (CO)
 - Hydrocarbons (HC)
 - *Nitrogen oxides (NO_x)*
 - *Particulate matter (PM)*



Plugged in fleet initiatives



- Energy saving trust supported by DFT
- Over 120 electric vehicle reviews for fleets:
- Whole life costs EV v. ICE using fleet's own fuel and electricity costs
- Analysis of the drive cycle - does it meet the fleet's needs?
- If barriers exist, what can be done to overcome them?
- Infrastructure advice
- Report with clear recommendations

Tackling preconceptions



The vehicles are not appealing

Range is an issue

The costs do not add up

EVs are a fad

There's not enough charging posts

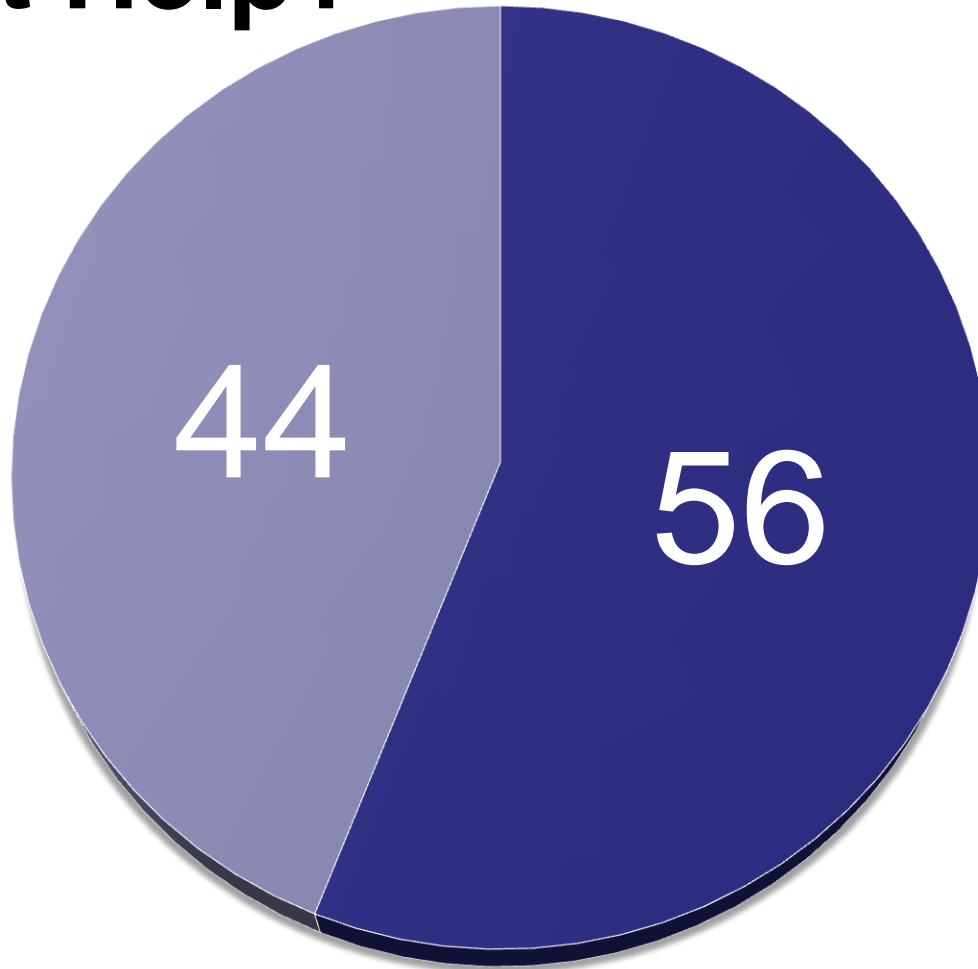
Cost analysis



This example shows the savings across a number of small vans:

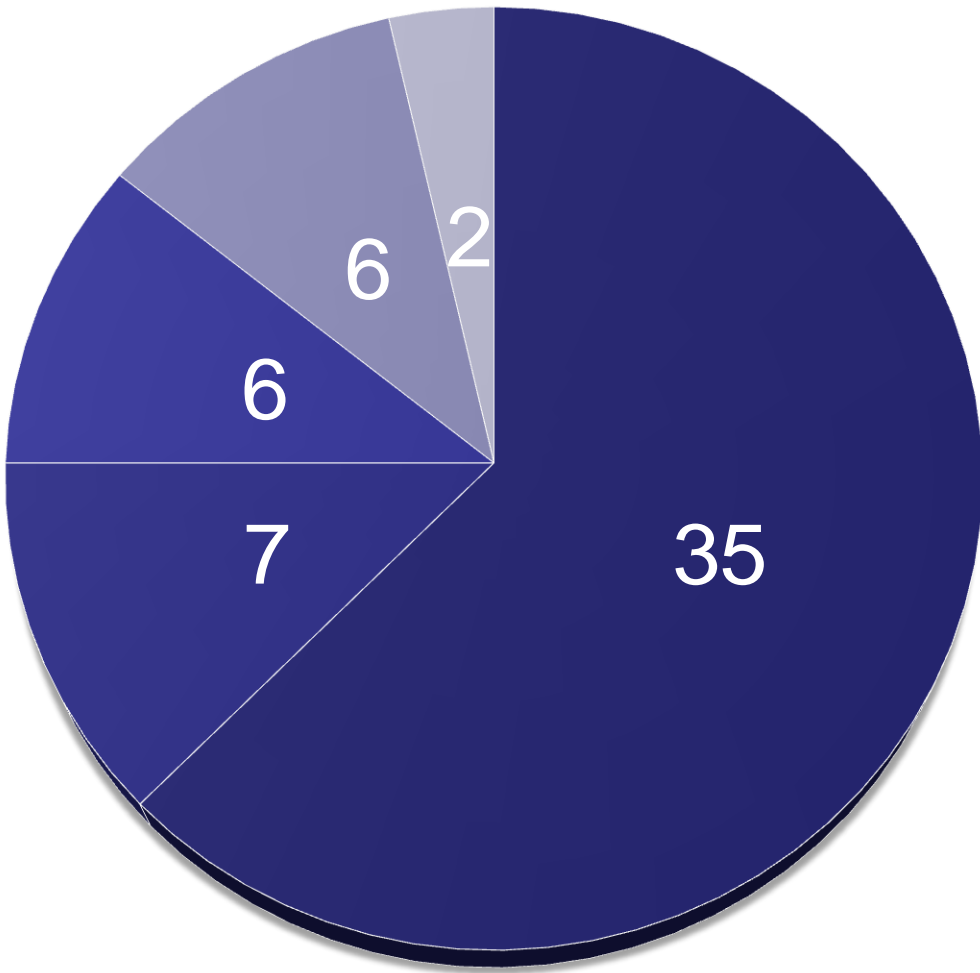
Make	Ford Transit Connect T200 LWB	Renault Kangoo Z.E. ML20	Renault Kangoo Maxi Z.E.
Vehicle type/fuel	Diesel	Electric	Electric
Term - months	60	60	60
Annual mileage	15,000	15,000	15,000
Diesel £/litre net / electricity pence per kW hour/	1.20	8.42	8.42
Official Fuel consumption MPG/ Wh/km	38.1	155	155
Fuel costs	£ 12,382	£ 1,811	£ 1,811
Lease Costs	£ 13,318	£ 20,819	£ 22,741
Total cost	£25,700	£22,630	£24,552
PPM based on annual projected mileage	34	30	33

Who did the Energy Saving Trust Help?



- Public Sector
- Business

Public Sector clients (2013/14)



- Local Authority
- University
- NHS/Health
- Emergency Service
- Government Department/Agency

Impact (2013/14)



From 100 reviews, they identified 1,422 fleet vehicles where a business case existed.

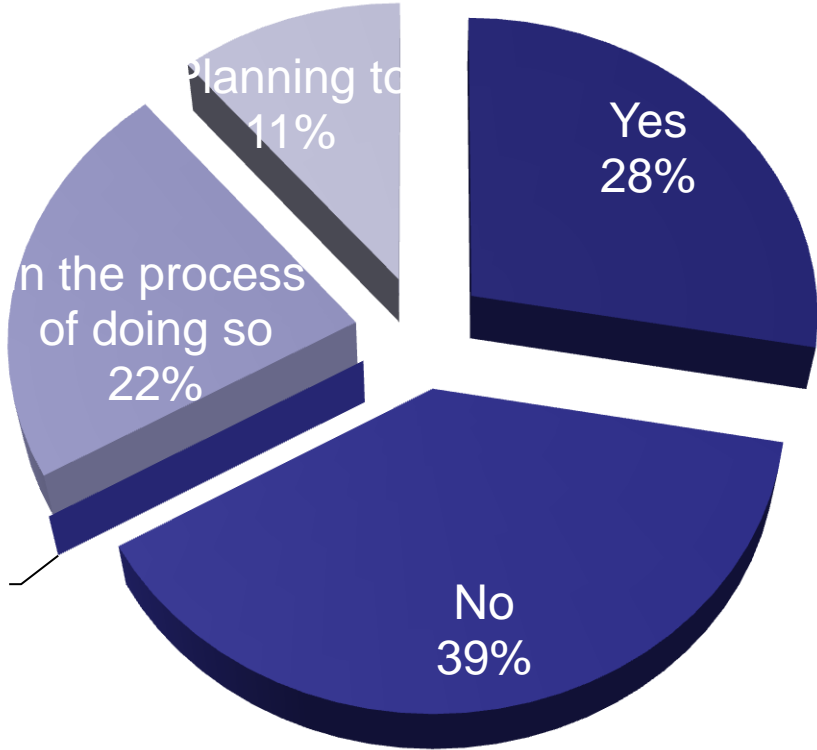
And found additional opportunities for up to 1,300 viable pool vehicles that could reduce grey fleets.



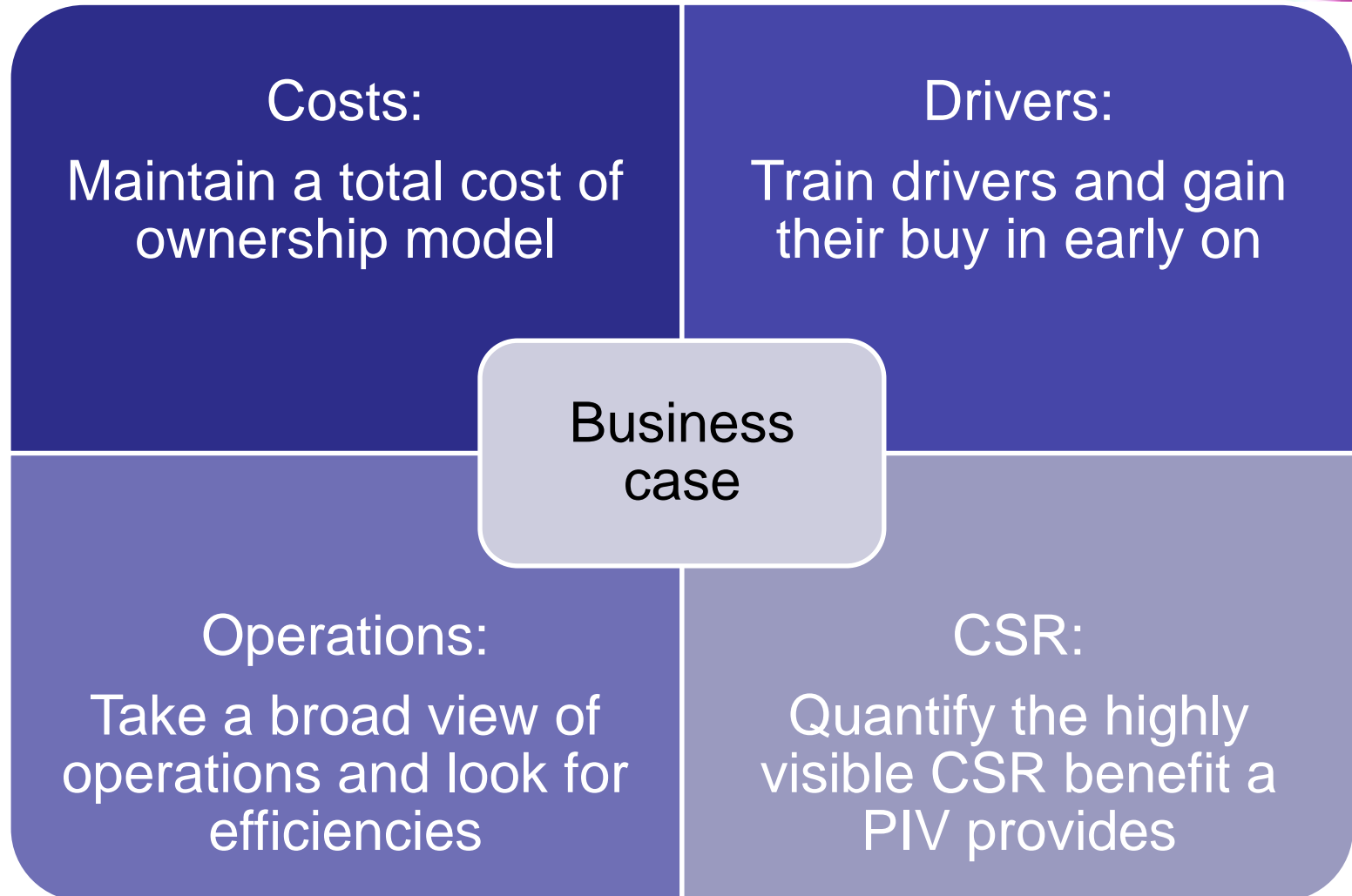
Since your PIFI Review have you acquired EVs?

61% said they had adopted EVs, are planning to or are in the process of doing so

100% of participants said the PIFI review was useful in informing their decision



Planning for success



Investing in the future

Transport for London: rapid chargepoint mapping



Help shape the future of London's electric vehicle rapid chargepoint network:

- Working with 35 operators of commercial vehicles (up to 12.5t)
- Analysing telematics and scheduling data (in partnership with Route Monkey)
- Maximising the benefits of plug-in vehicles
- Mapping the optimal locations for infrastructure



Questions to you....

What have you done so far?

What are the barriers to greening your fleet?

Has the current austerity measures slowed down investment?

Is there political 'buy-in' to greening fleet?

Are the perceptions that the technology isn't quite there yet?

Thank you



Any questions

LOCAL SERVICES

LOCAL SOLUTIONS



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