



FREIGHT in the **CITY** **EXPO**

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#FITC2018

SEMINAR ROOM

Seminar partner:





FREIGHT in the **CITY** **EXPO**

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Session 2

Inspiring Change



Tim Hapgood
Principal Transport Planner
Peter Brett Associates

Gordon Sutherland
Traffic & Road Logistics Manager
Tideway



Low Entry Cab HGVs

GORDON SUTHERLAND and TIM HAPGOOD

6TH November 2018



CVB
ERST



DENNIS EAGLE
A TRANSPORTATION COMPANY



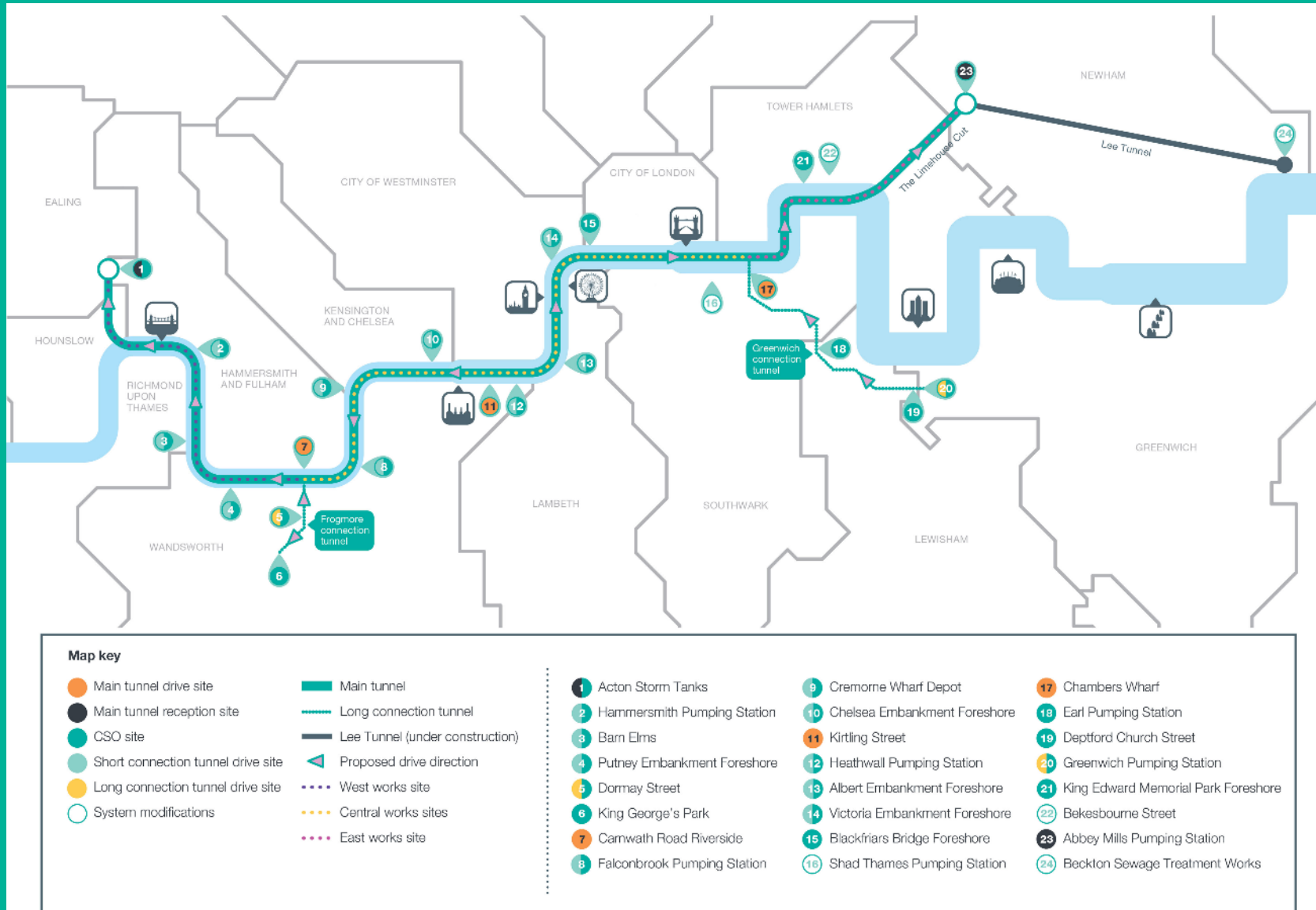
Contents

- Tideway Project Overview
- Health and Safety Vision
- Why LECs?
- Making LECs Happen
- LEC Performance
- Where next for LECs?



Tideway Central – Albert Embankment Foreshore

TIDEWAY PROJECT

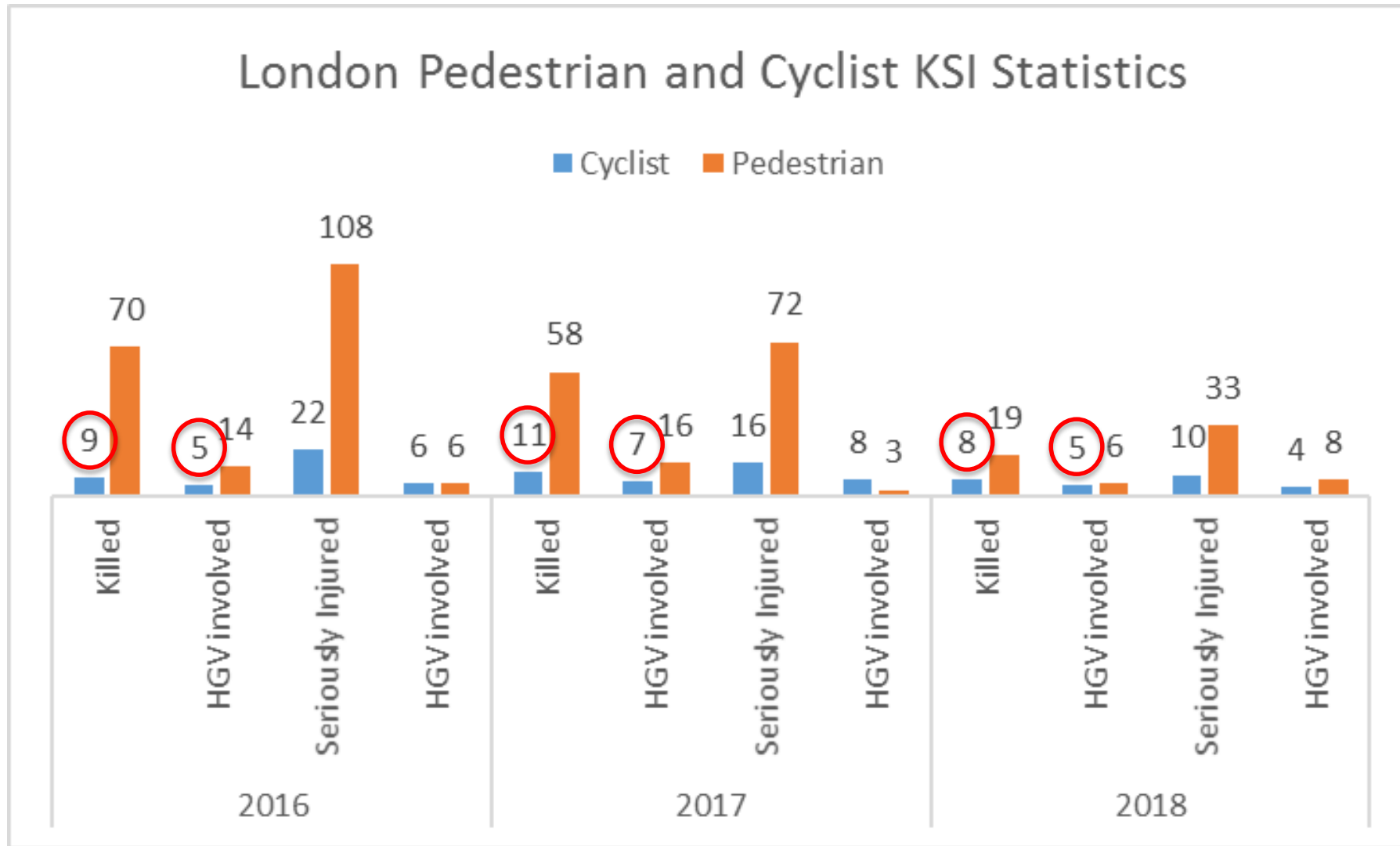


Health and Safety Vision

WE DO THINGS SAFELY OR NOT AT ALL
WE WORK IN THE RIGHTWAY



Why Low Entry Cab Vehicles?



Why Low Entry Cab Vehicles?

Direct Vision Capability

- N3G with side door panel



- Low Entry Cab



Making LECs Happen



Tideway East – Deptford Church Street



Tideway East – Greenwich Pumping Station



Tideway Central – Blackfriars Bridge Foreshore



Tideway East – Chambers Wharf



Tideway Central – Victoria Embankment Foreshore

LEC Performance



LEC Performance

Metric	Dennis Eagle Elite 6	Volvo FMX
Tare Weight	13.08	13.12
Payload	18.92	18.88
MPG	7.7	7.7
NOx g/litre	0.9	0.9
Co2 per tonne	0.0501	0.0502

LEC Performance

Maintenance/Design

- No issues
- No specialist requirements
- Bus style passenger door
- Fuel tank



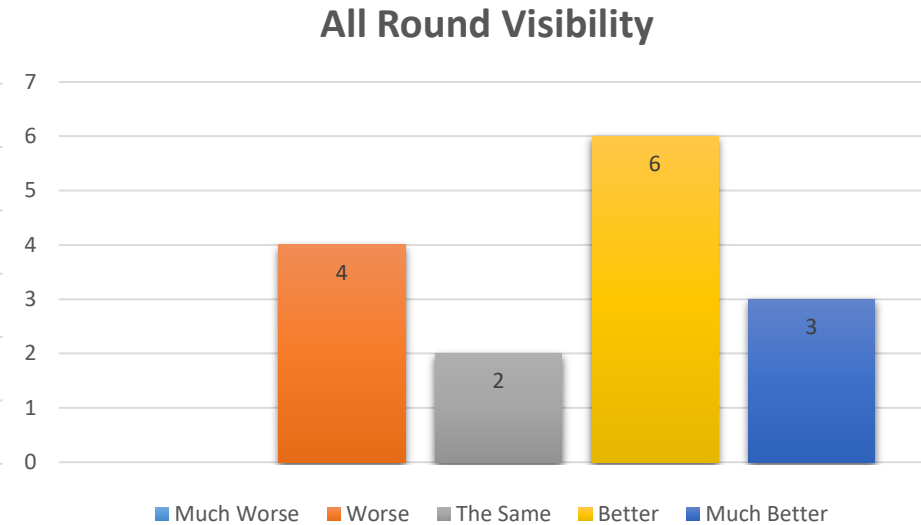
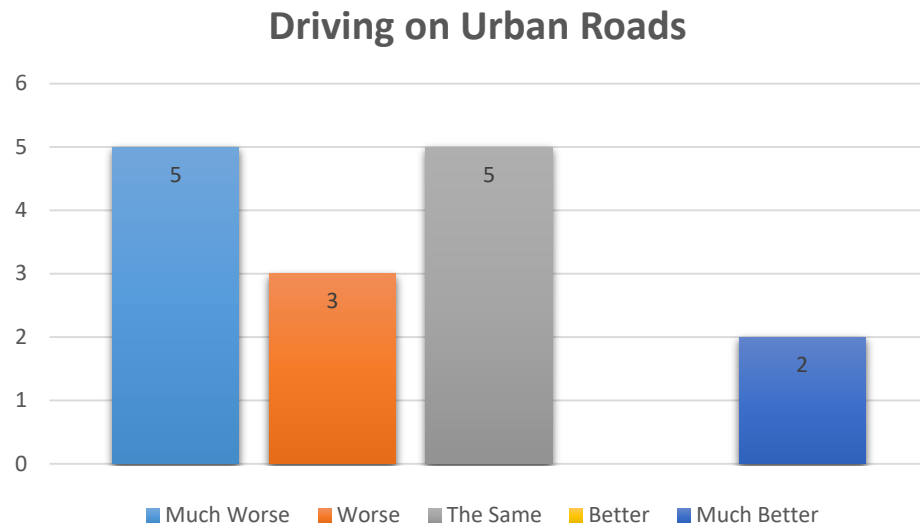
Off-road Capability

- Pitsea disposal site
- Modified ground conditions
- Use of plant for final disposal

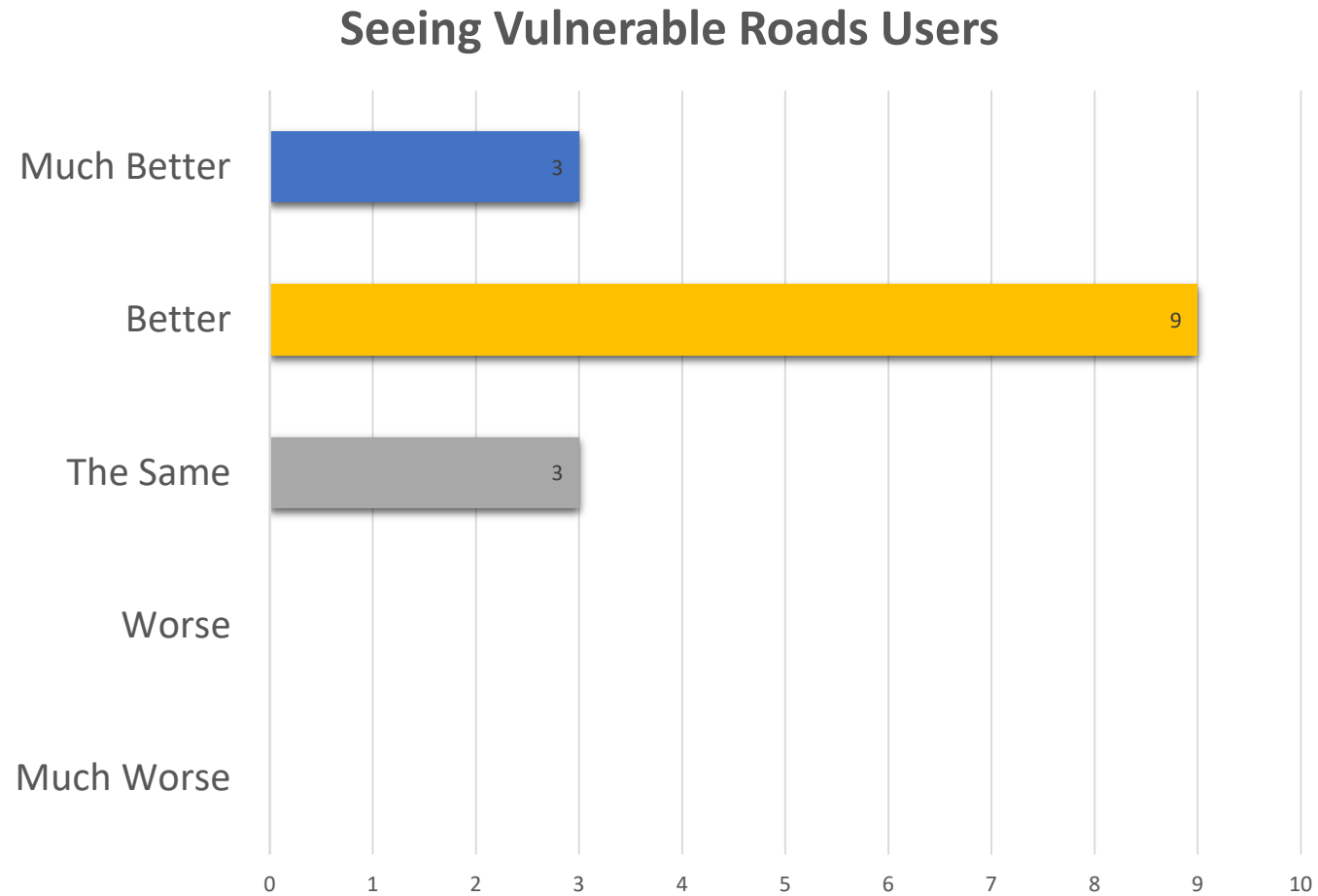


Driver Feedback

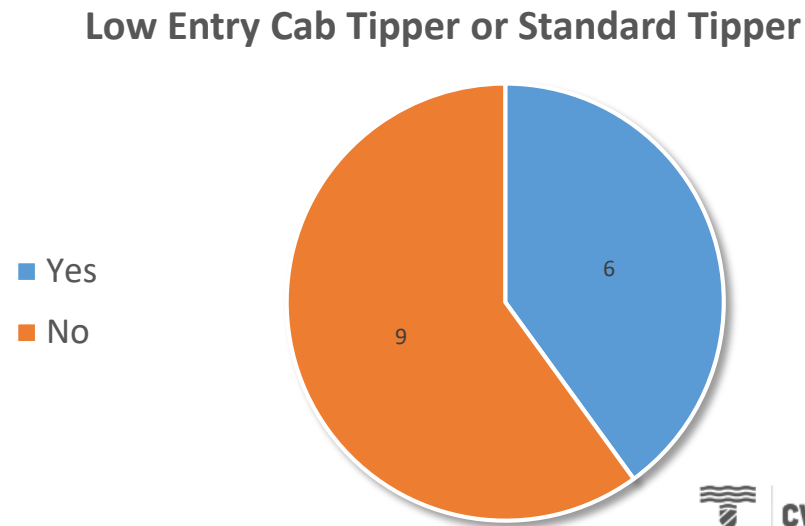
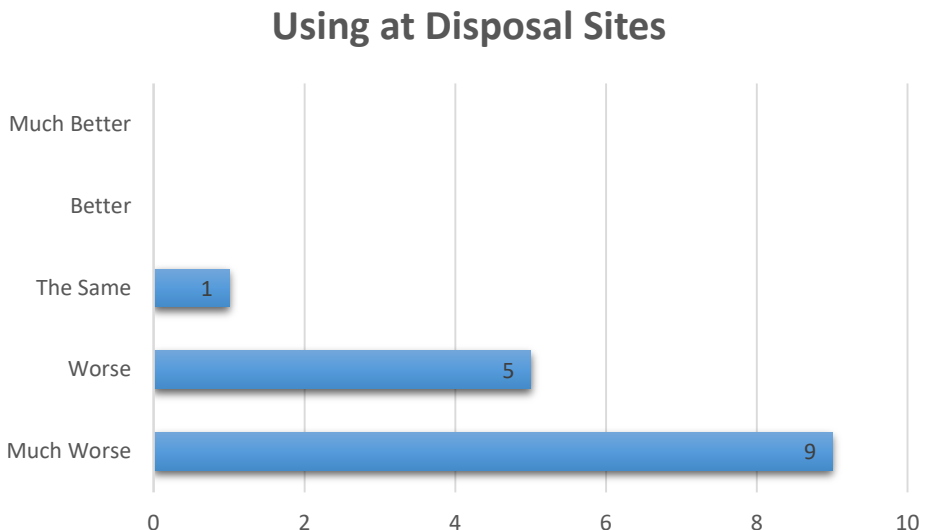
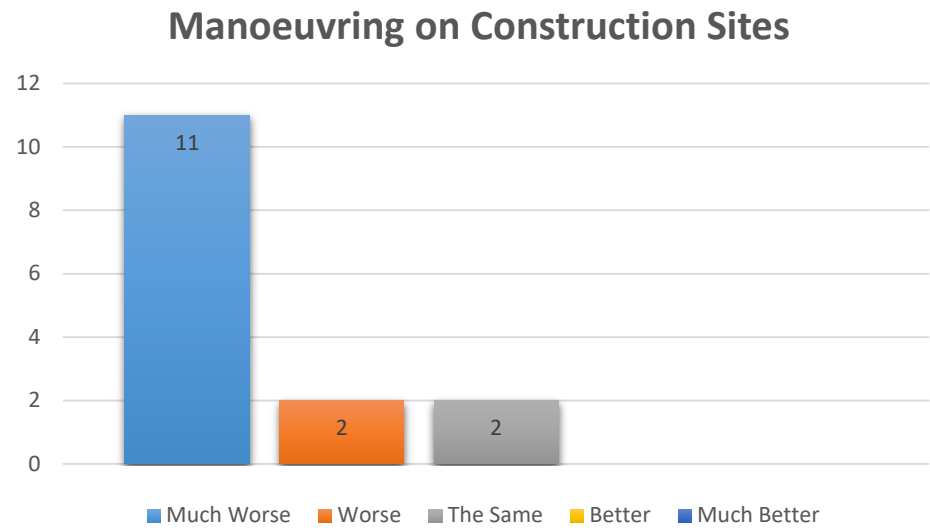
- Fifteen drivers
- LEC vs Standard Tipper
- Scale 1 – 5 (1 much worse, 5 much better)
- Very honest feedback!



Driver Feedback



Driver Feedback



What Next for LECs?

- Acceptance by industry
- Address driver feedback
- Positive performance data
- Future reduction in vehicle cost
- Upgrade disposal sites
- More vehicle types
- Direct Vision Standard
- LECs become operating norm
- Positive Tideway project legacy
- Achieve Vision Zero





Tideway

Thank You For Listening

Ian Clough
Managing Director Network Logistics and Transport
DHL Supply Chain

FREIGHT IN THE CITY URBAN LOGISTICS

- Solving the problem out of town
 - Ian Clough, Managing Director, Transport and Network Logistics, DHL Supply Chain, UK & Ireland

- Supply Chain



Rise of the city

1950



79%

UK population
in cities

2030



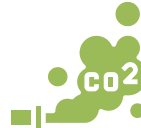
92.2%

predicted city
population



39.6m

vehicles on
the road



40+

towns & cities
exceeded World
Health Organisation
air pollution limits

2025



UK could have 1
mega city, 1 mega
region and 1 smart
city



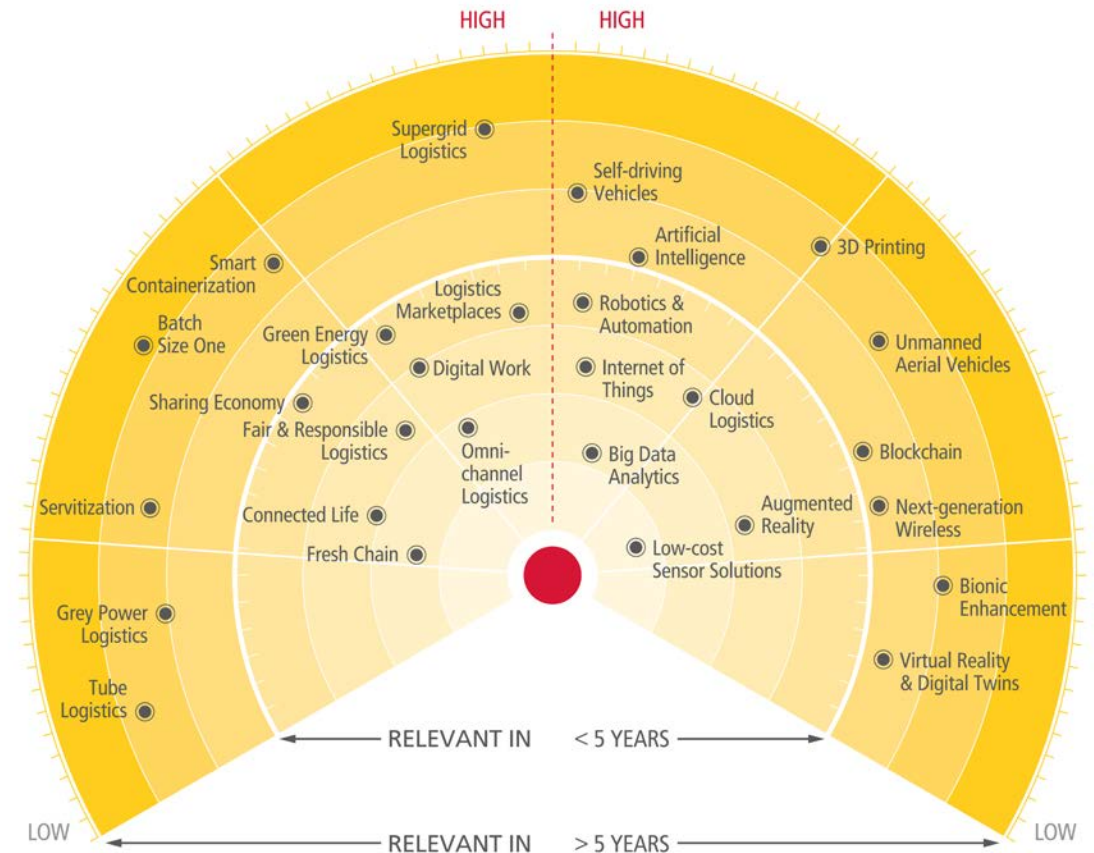
Business is Global
but we operate in a
locally governed
environment

- Emerging Corridor in 2025
- Mega Cities in 2025
- Emerging Mega Cities
- Smart City in 2025
- Emerging Mega Region in 2025



Trends in the city

- As a business we're seeing trends in the city that will impact the way businesses operate in the next 5 years.
- Our trend report highlights 5 key technology, social and business trends
 - The low carbon economy
 - Technological innovation
 - Urbanisation
 - Changing demographics
 - Transparency and social value

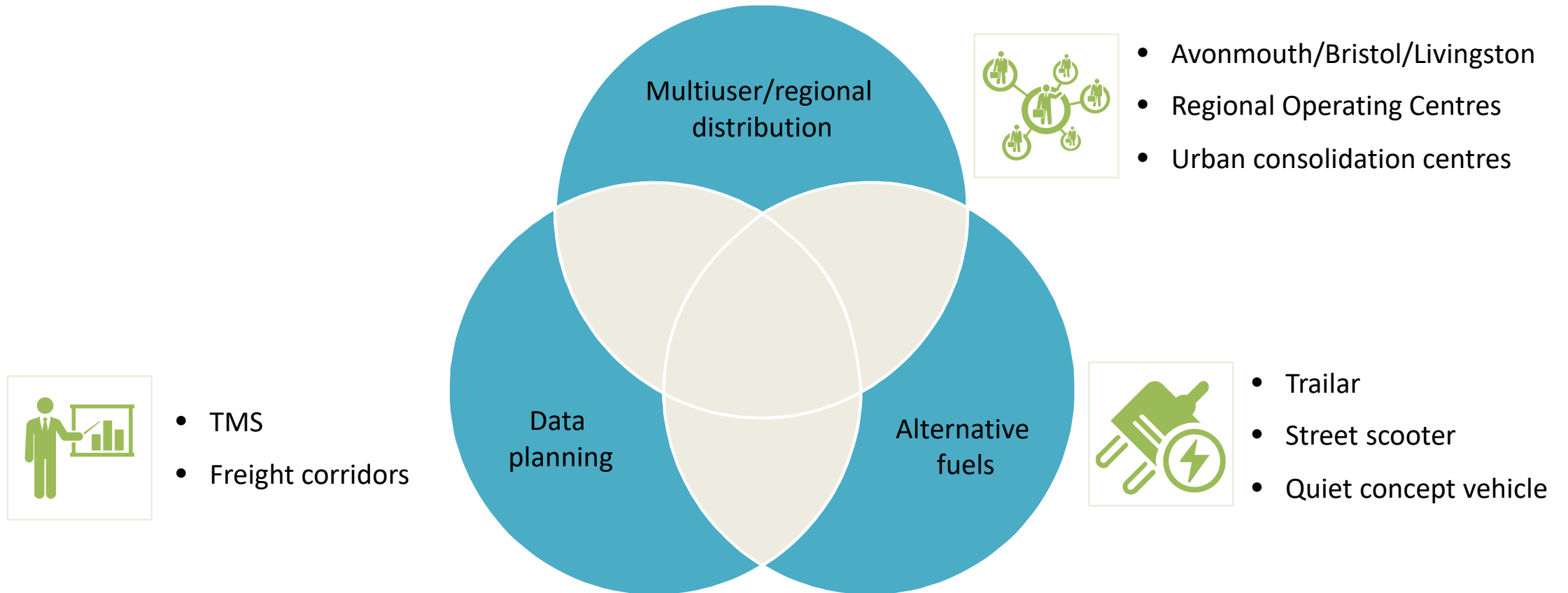


Morrisons: Trends in action

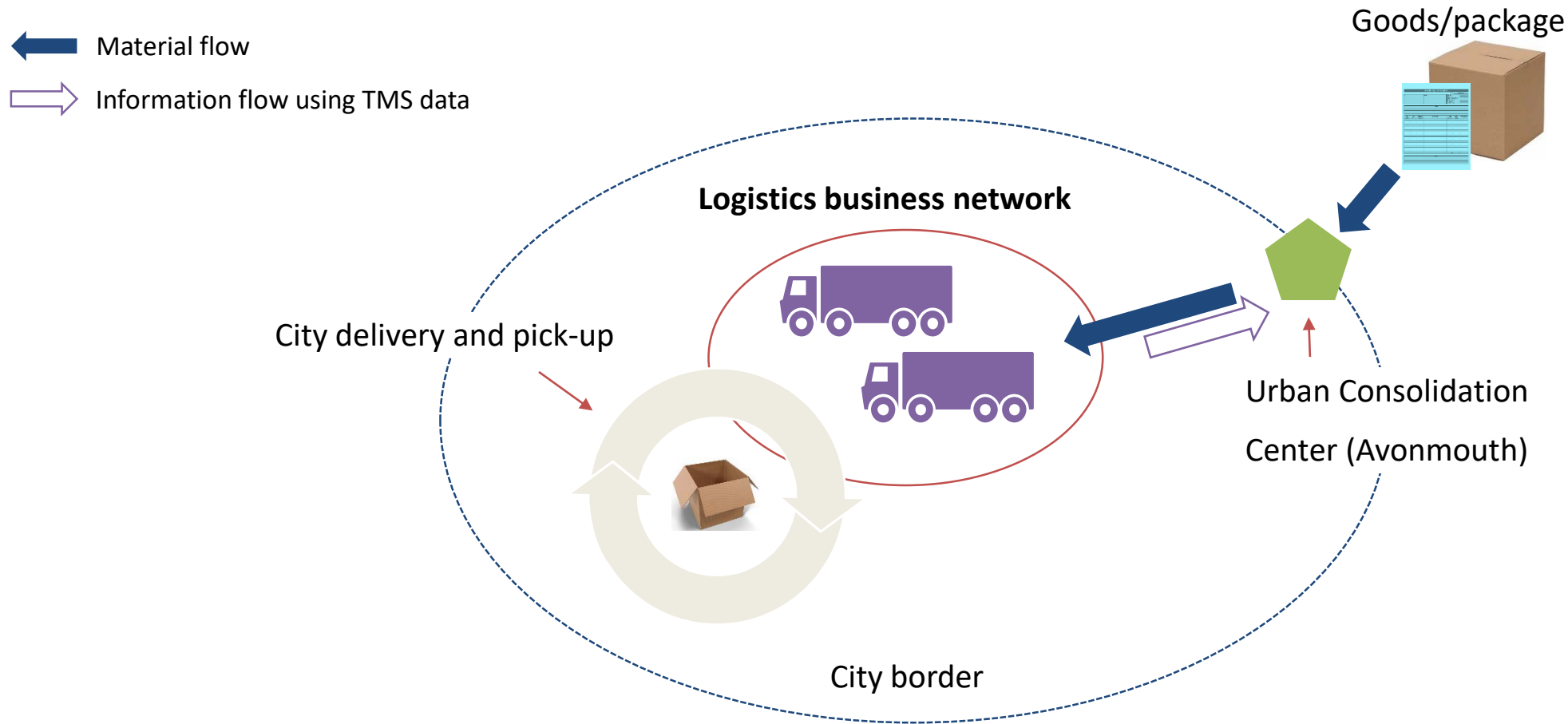
- Convenience logistics has grown exponentially over the last 5 years
- Morrisons and DHL have partnered to
 - Operate 5 **strategically placed fulfilment centres**:
Livingston, Bury, Lutterworth, Maidstone and Bridgwater
 - Innovate within transport planning implementing low cost sensor technology
 - Use multipurpose networks to ensure efficiency in and around cities



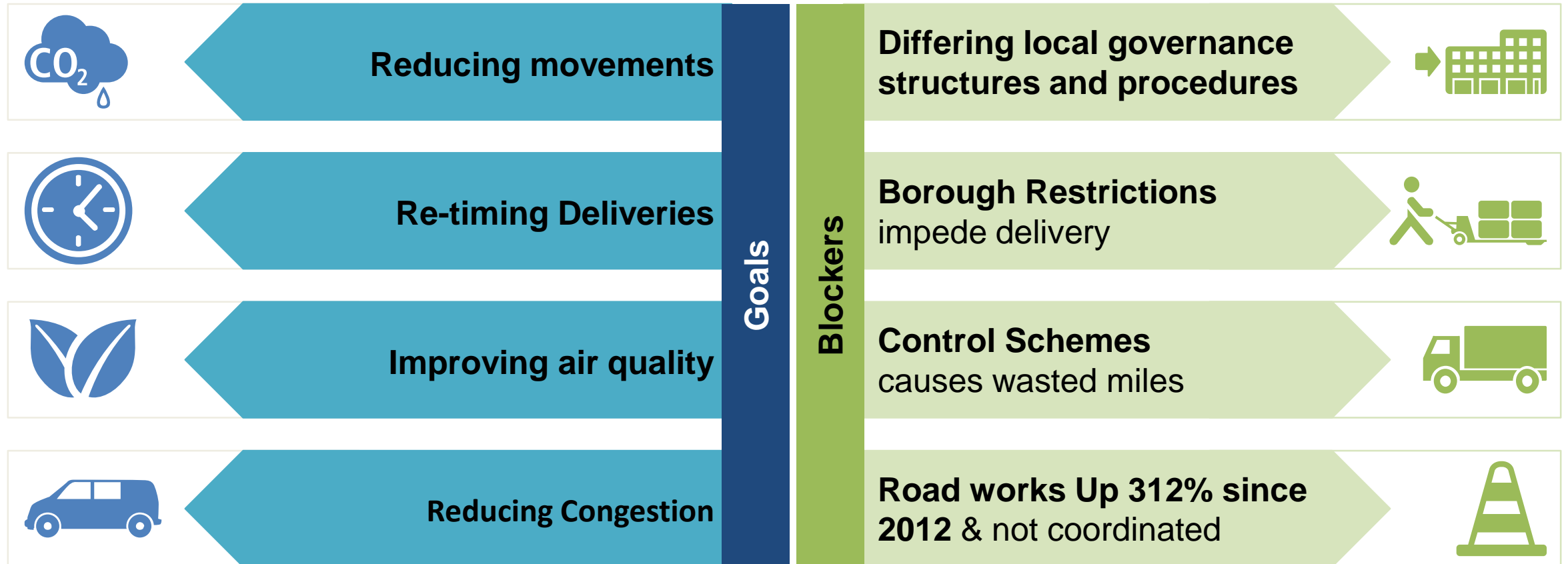
Sustainable approaches to delivery across DHL



Deliveries of the future



Compliance



Urban Logistics

Tackling challenges together



Clean



Safe



Quiet

Supporting city growth



Road Planning



Tackling Congestion



Land Planning



Fleet Interoperability



Incentives for good practice



Monica Guise
Head of Sustainable Logistics
University of Birmingham

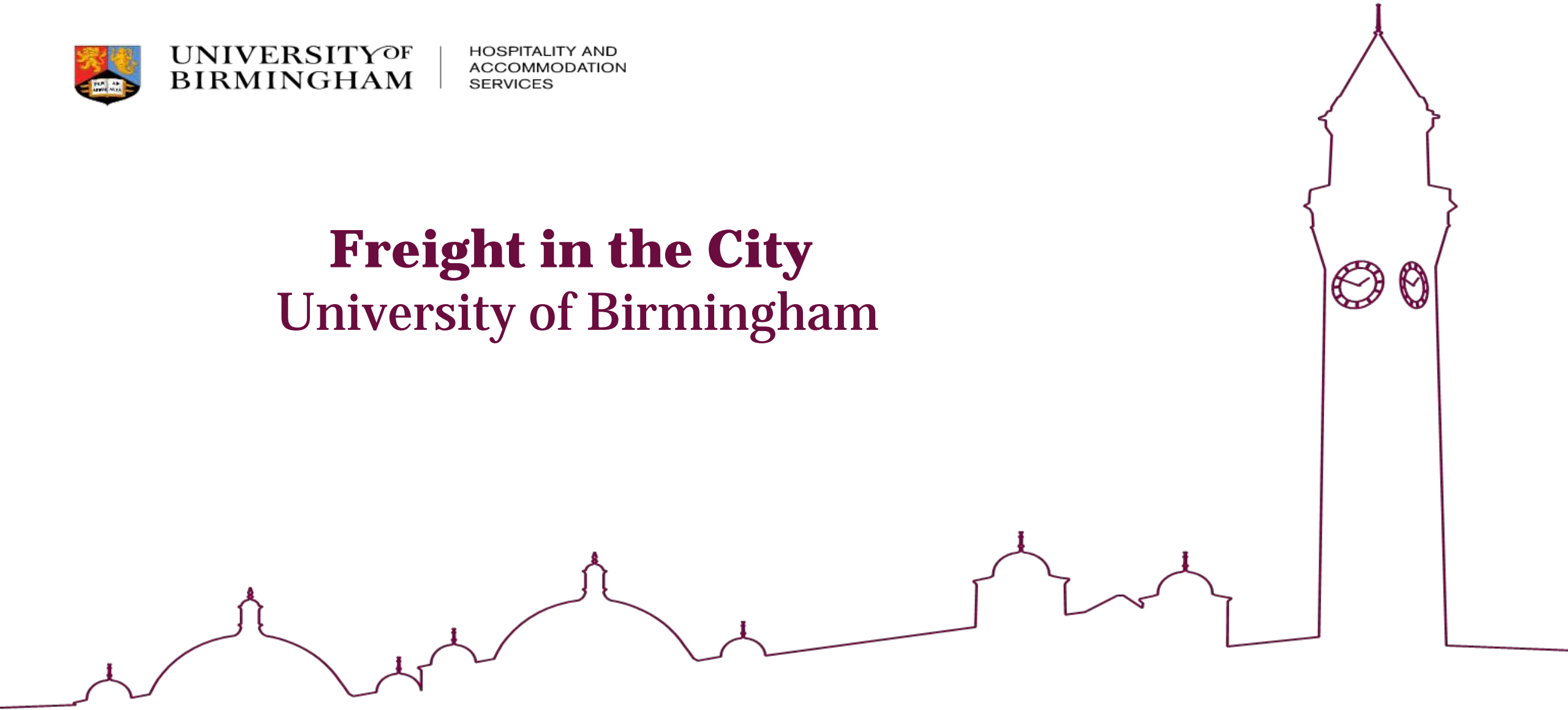


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HOSPITALITY AND
ACCOMMODATION
SERVICES

Freight in the City

University of Birmingham



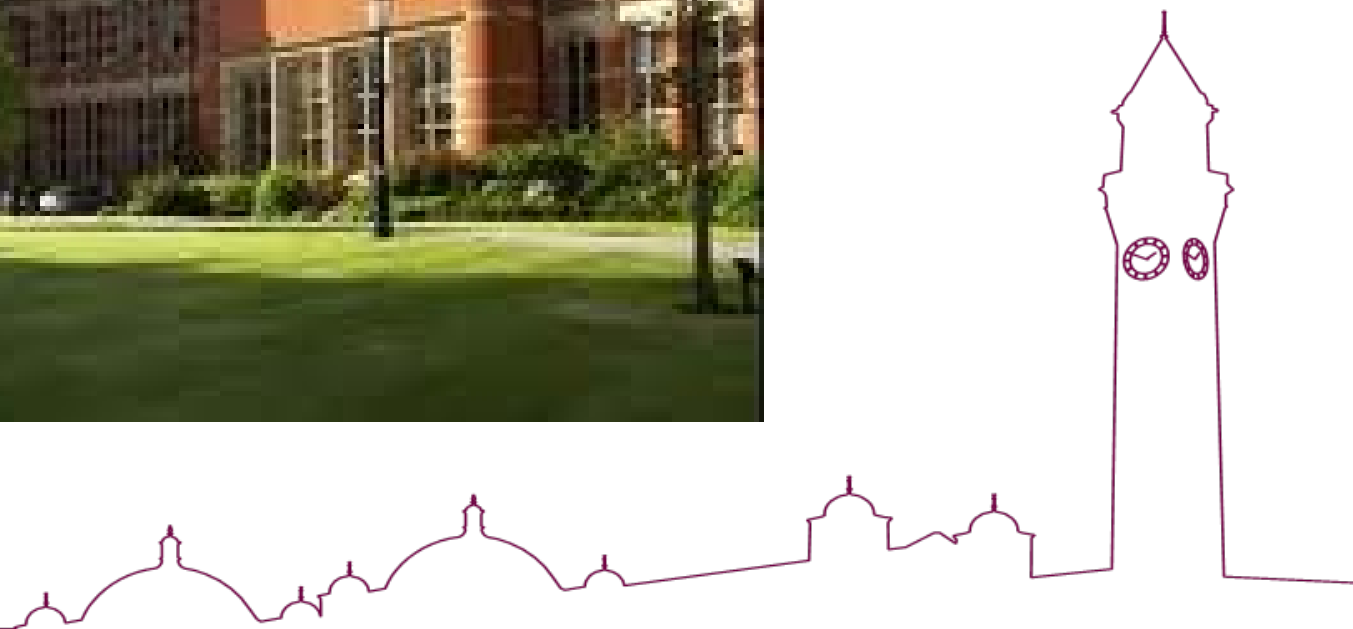
November 2018

Monica Guise , Director of Facilities



UNIVERSITY OF
BIRMINGHAM

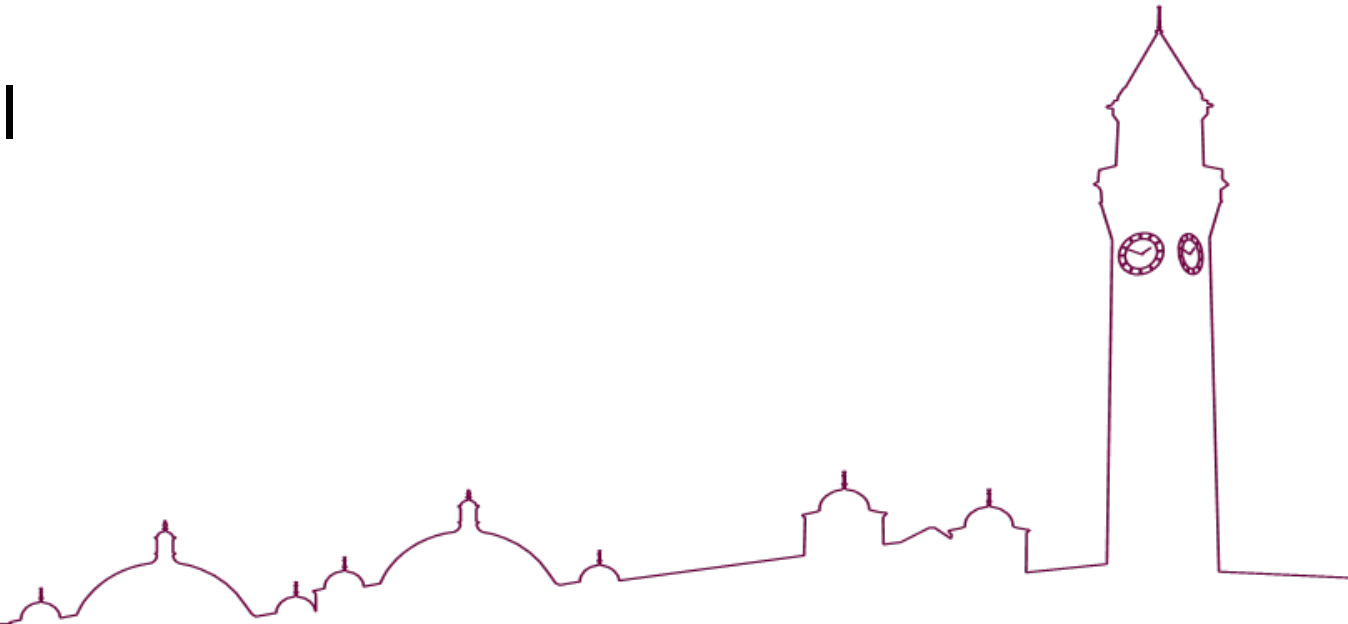
HOSPITALITY AND
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Sustainable Logistics

- ❑ Fleet
- ❑ Logistics
- ❑ Global business travel
- ❑ Sustainable travel
- ❑ Car Parking



Influencing Change

- **Within Birmingham**
- **Around our community**
- **Global Impact**
- **2020 – 40% Target**



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SUSTAINABLE DEVELOPMENT GOALS



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Challenges/Strengths

- **Business Case**
- **Trials**
- **Drivers**
- **Telematics**



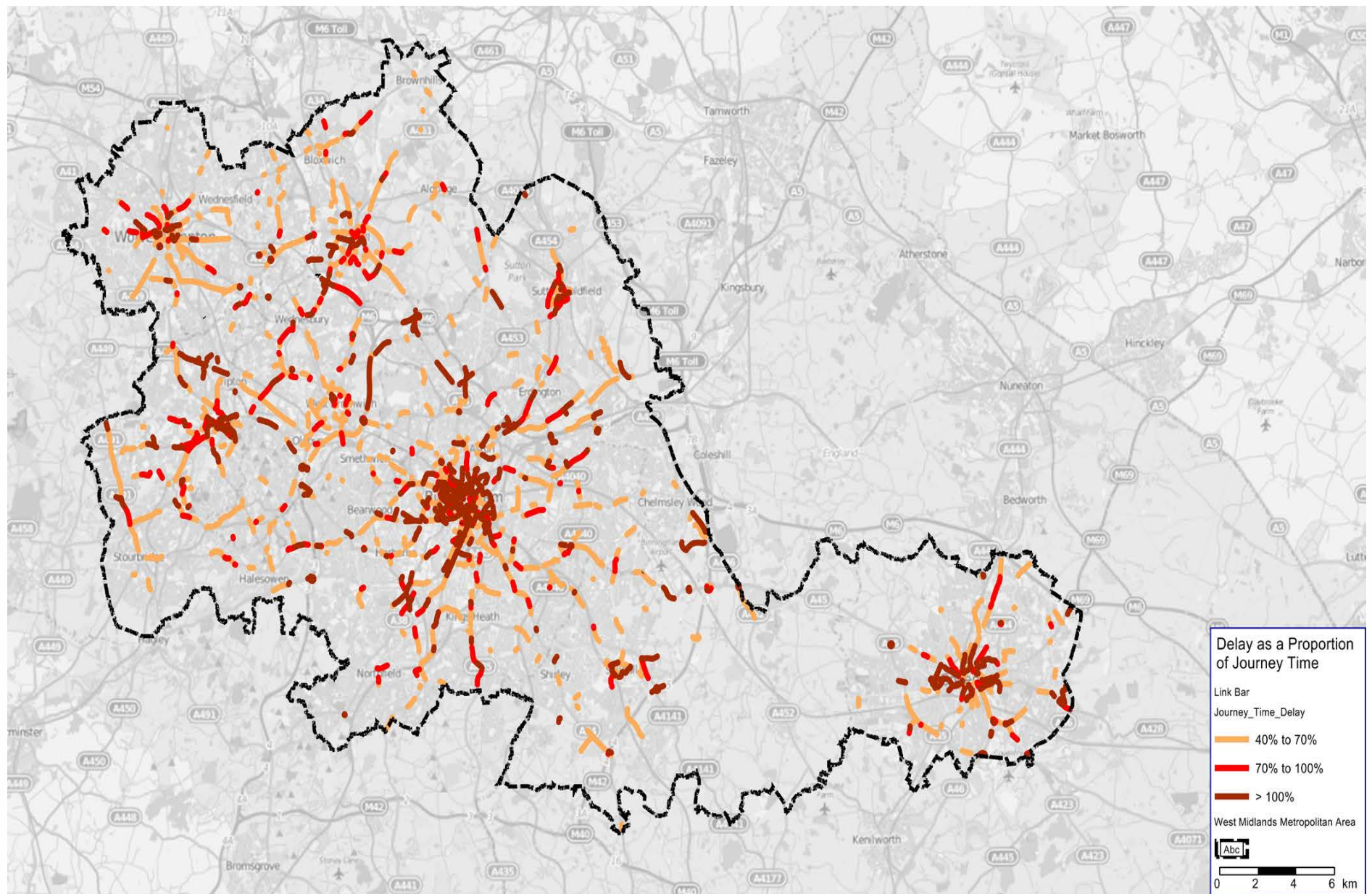
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Birmingham 2022 Commonwealth Games



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Any Questions.....?



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Gary Clark

UK Fleet Director

Veolia



Our fleet, our future

.....
Gary Clark UK&I Fleet Director,
Veolia UK & Ireland



Veolia UK fleet



6,500

vehicles from our operating centres throughout UK



Wide variety

of vehicles and yellow plant



The drive for reduced vehicle emissions

- NO_x
- Particulates
- Urban Clean Air Zones
- London ULEZ



Minimum emissions standard for HGVs within clean air zones will be Euro 6



Euro 6 is not best suited to urban refuse collection applications

Veolia has a strong legacy of innovation and use of electric vehicles



We recognise that the biggest problem also represents the biggest opportunity - Refuse Collection Vehicles

Veolia have successfully trialled the UK's only operational 26T full electric RCV in Sheffield and London



“The drivers were **sceptical** as to the suitability in the unique geographical terrain of Sheffield City.”

“The vehicle needed to be **fully utilised** in all areas to **dispel misconceptions.**”

“**The vehicle was pushed to its limits;** it coped admirably.”

“The vehicle performed as **well as any vehicle driven in the past**; absolutely no issues with it.”

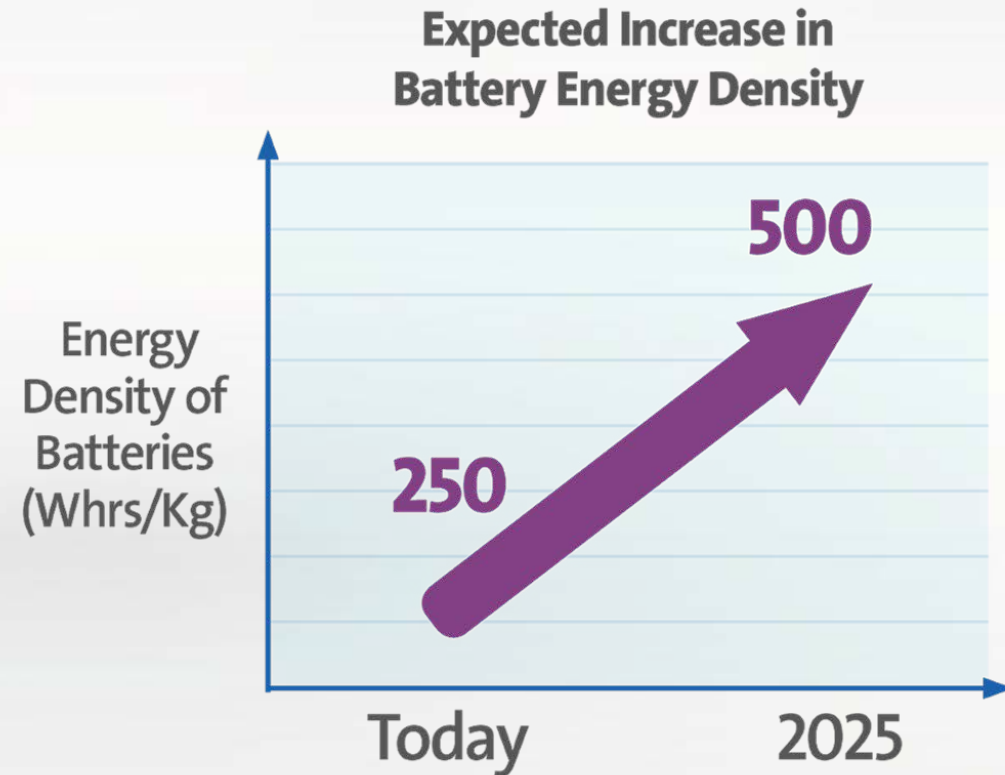
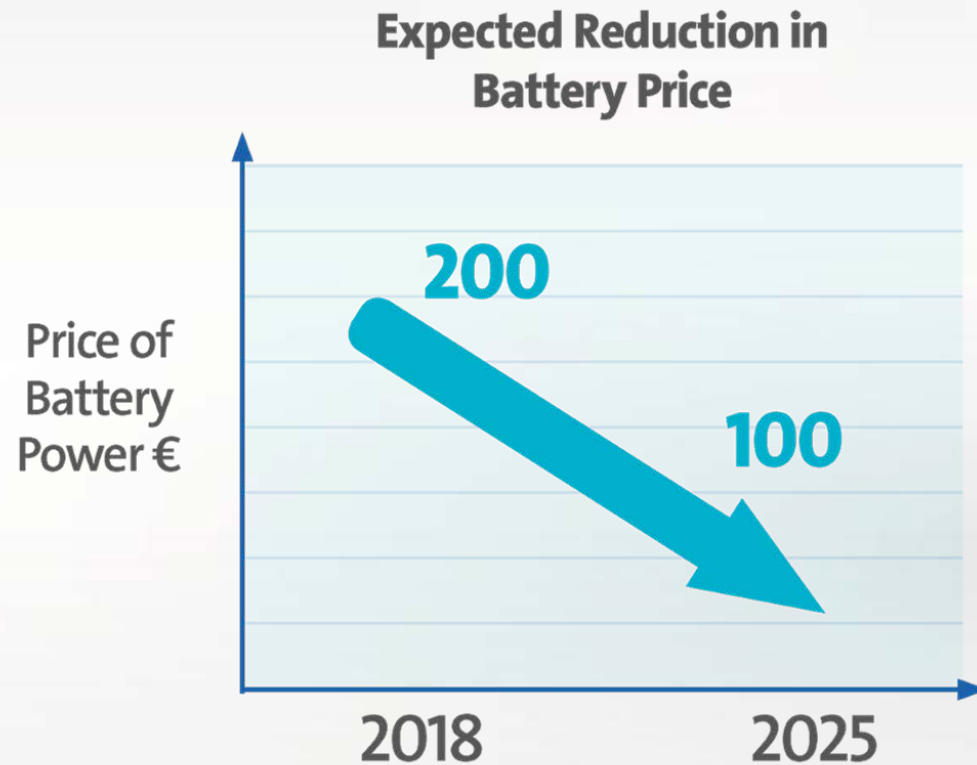
“Initial overview is positive and it **performed better than anyone expected.**”

Performance data

	ELECTRIC	DIESEL
MPG	NA	3
Diesel Used	NA	100L
Electricity Used	140KW	NA
Battery Capacity Used	70%	NA
Cost Per Day	£14	£105

Zero tailpipe emissions | Vehicles are expensive

**Electric vehicle batteries account for approx.
50% of the whole vehicle cost and limits its range:**



**Greenhouse gas emissions are no better than fossil fuels
if the electricity isn't generated using renewable energy**



The circular economy



Waste collected



Energy recovered



Vehicles powered

Innovate/OLEV funding:

- Consortium including Veolia, Westminster, Sheffield and Magtec awarded £1.4m to repower 4 RCVs with full electric plug-in drive trains.
- Key outcome of the project is to prove the technical and economic viability of using electric powered RCVs in urban environments.

MAGTEC
BRID & ELECTRIC VEHICLE DRIVE

Innovate UK
Technology Strategy Board



City of Westminster

Sheffield
City Council



Office for
Low Emission
Vehicles



Questions?

.....
Gary Clark UK Fleet Director,
Veolia UK & Ireland





Ben Farrell
Head of Central Operations and Transport
John Lewis and Partners

JOHN LEWIS & PARTNERS

Ben Farrell - Head of Central Operations & Transport

‘Urban Trailer Innovation At Oxford Street Store’

In the beginning...



The journey for us



1903



1962



1989

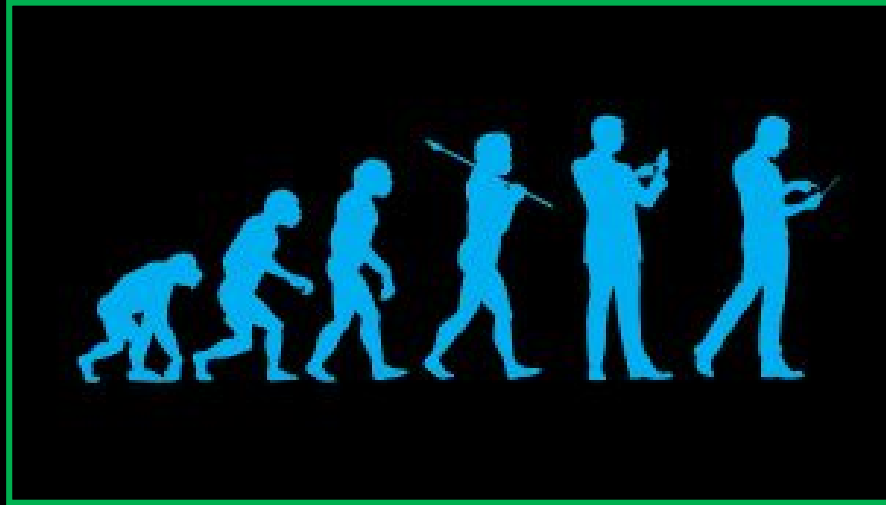


2018



1959

Challenges



JL Oxford Street delivery point

We could almost halve our deliveries into Oxford Street?



We could meet the growing costs and political challenges facing delivering into London?

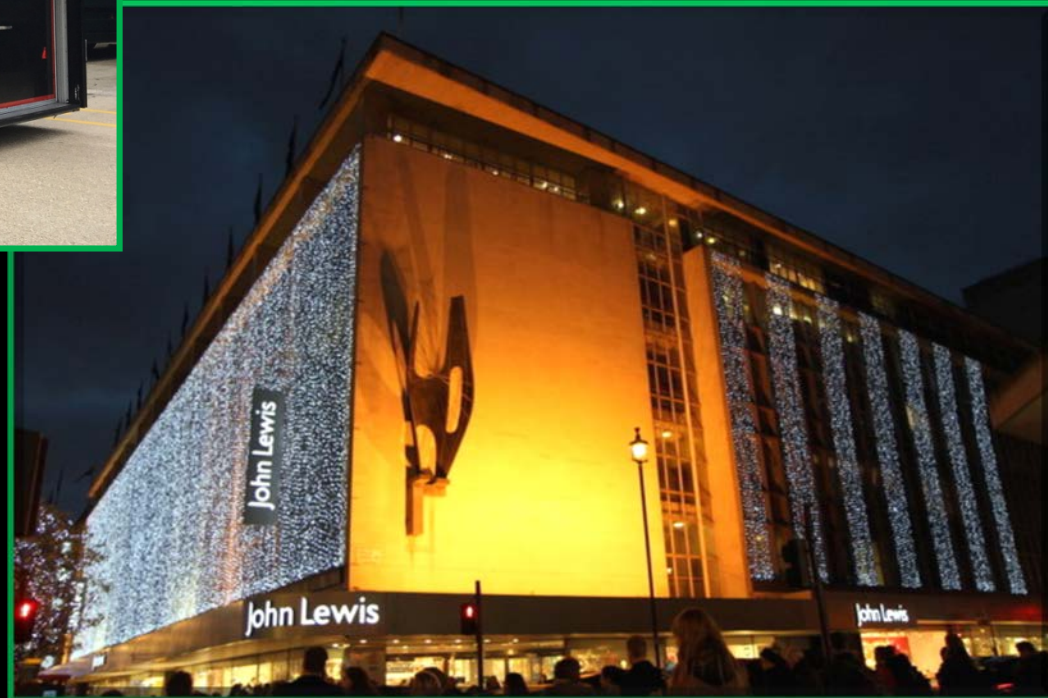
So what if...

We could reduce our annual CO₂ emissions into London by 97 tonnes?

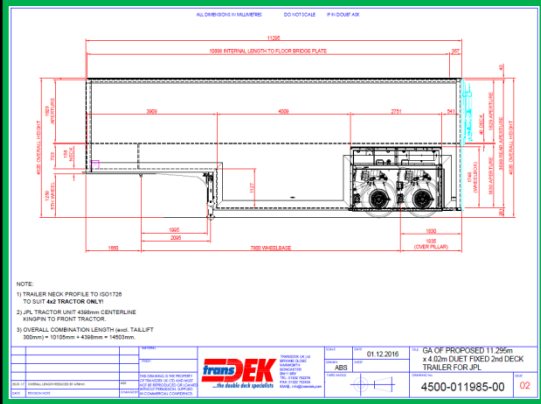


We could deliver efficiencies and cost savings?

And the future?



The trailer



49 sleeps until Christmas...



And the advert is coming!