

National Policy Outlook 2018/19

Low Emission Bus Workshop Birmingham
Birmingham International Airport,



LOWCVP
Low Carbon Vehicle Partnership

Connect | Collaborate | Influence



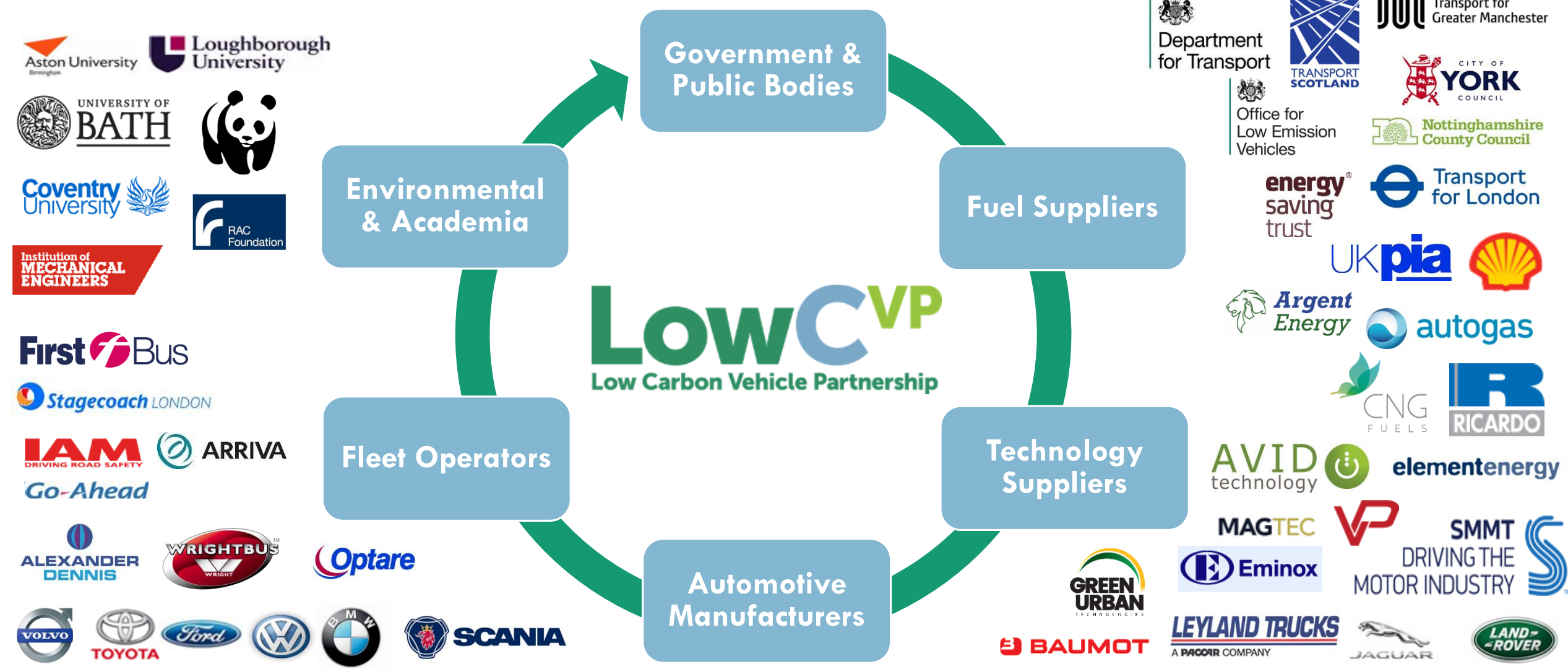
Daniel Hayes

Project Manager

Low Carbon Vehicle Partnership

The Low Carbon Vehicle Partnership

LowCVP is a unique public-private membership organisation tasked with “accelerating the shift to low carbon road transport” in the UK.



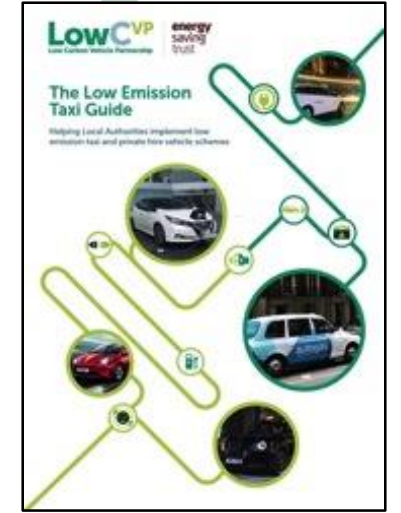
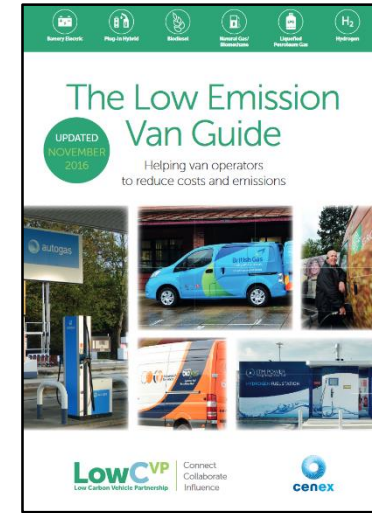
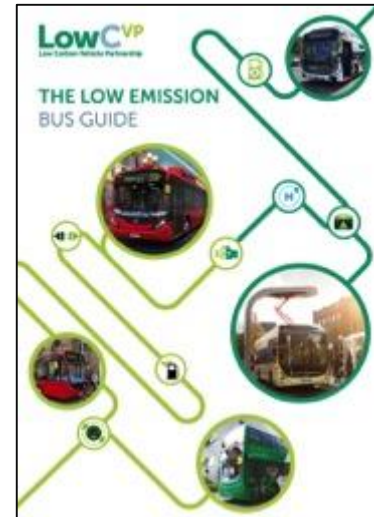
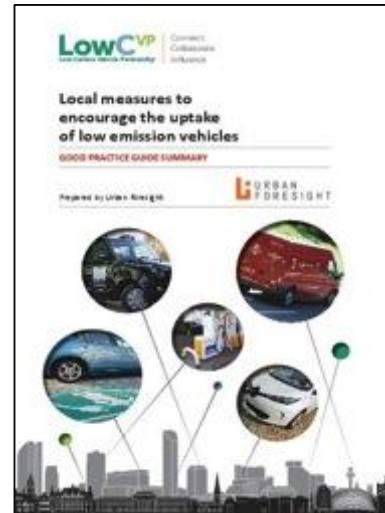
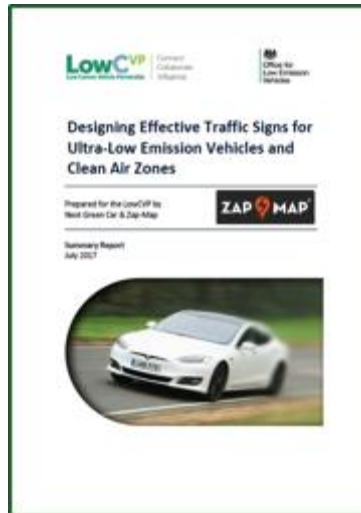
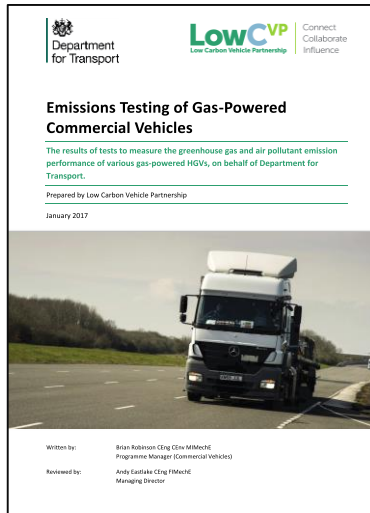
Building Communities, Developing Policies

Creating communities with shared goals

Understanding and evidence-based research

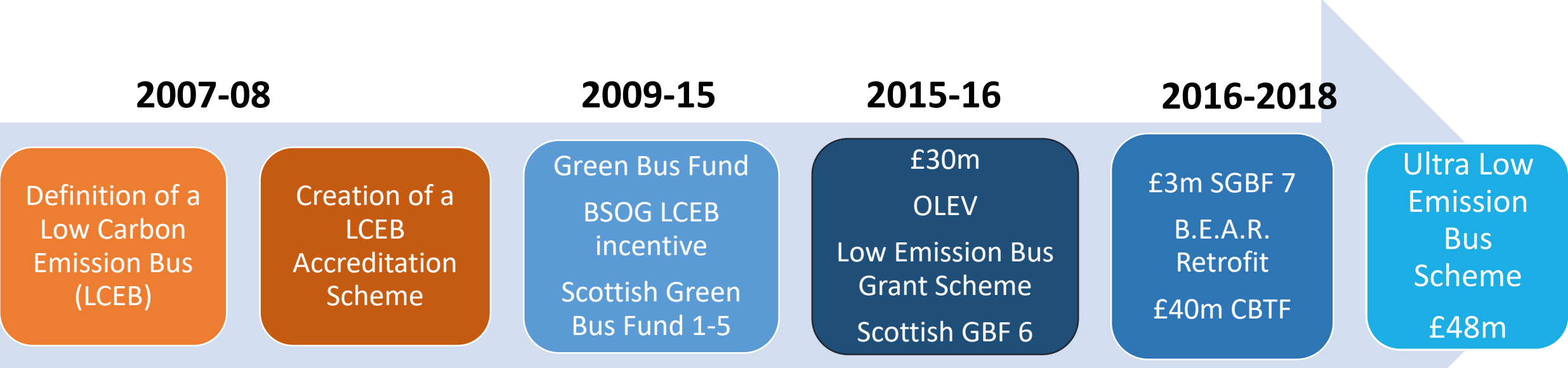
Influencing policy and information

Accelerating the market

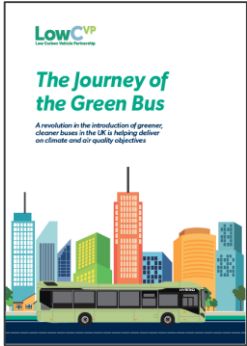


National UK Bus Policy Evolution

Development of evidence based bus policy over the last decade to reduce emissions...



... detailed in [The Journey of the Green Bus](#)



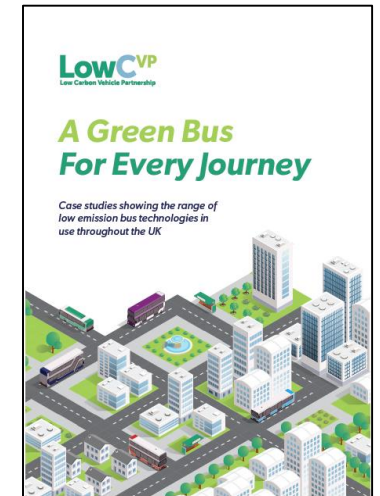
Low Carbon Emission Buses

- 30% well-to-wheel greenhouse gas saving vs Euro III diesel
- £90m for 1240 LCEBs in England, £14m for 275 LCEBs in Scotland
- July 2018: **5,904** LCEBs in service in UK, No LCEB BSOG incentive in Wales

Bus industry better than any other sector at adoption of low carbon technologies.

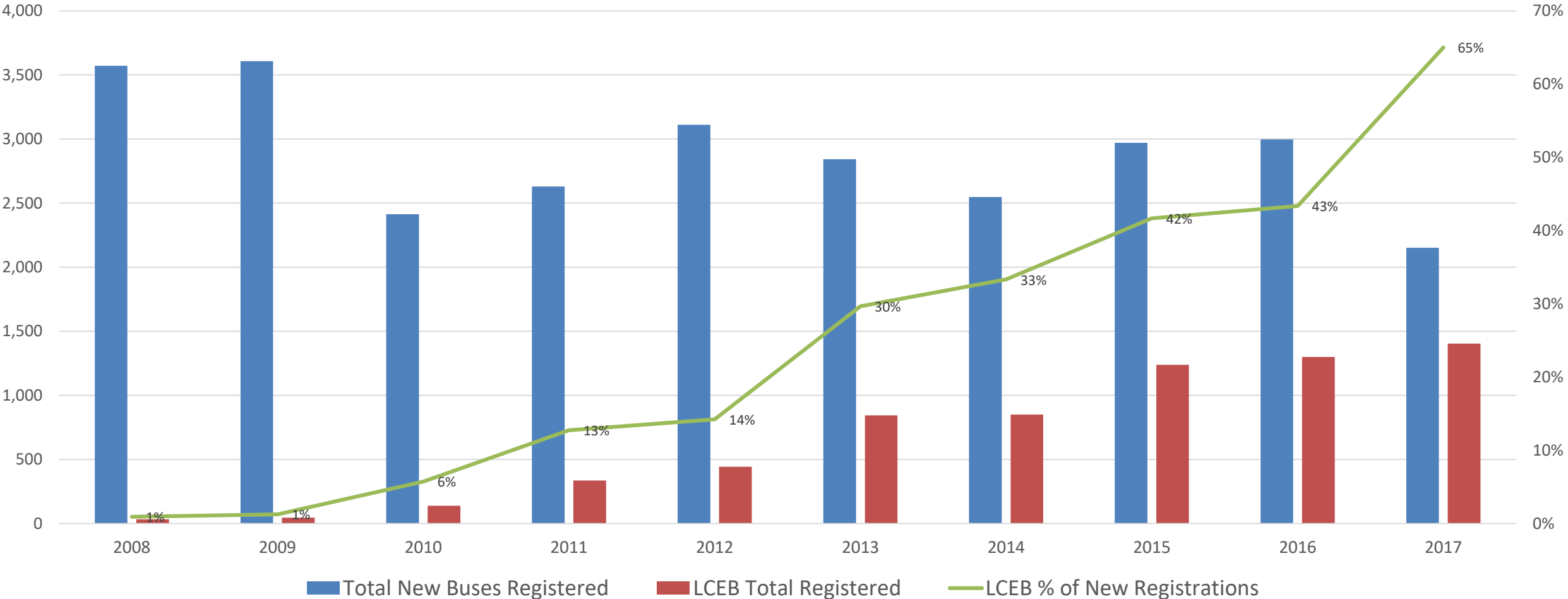
7 different technologies to suit local operation

**20 LCEB case studies in
A Green Bus for Every Journey**



Buses leading the uptake of low emission techs

Estimated Low Carbon Emission Bus registrations and total bus registrations, Great Britain, 2008-2017



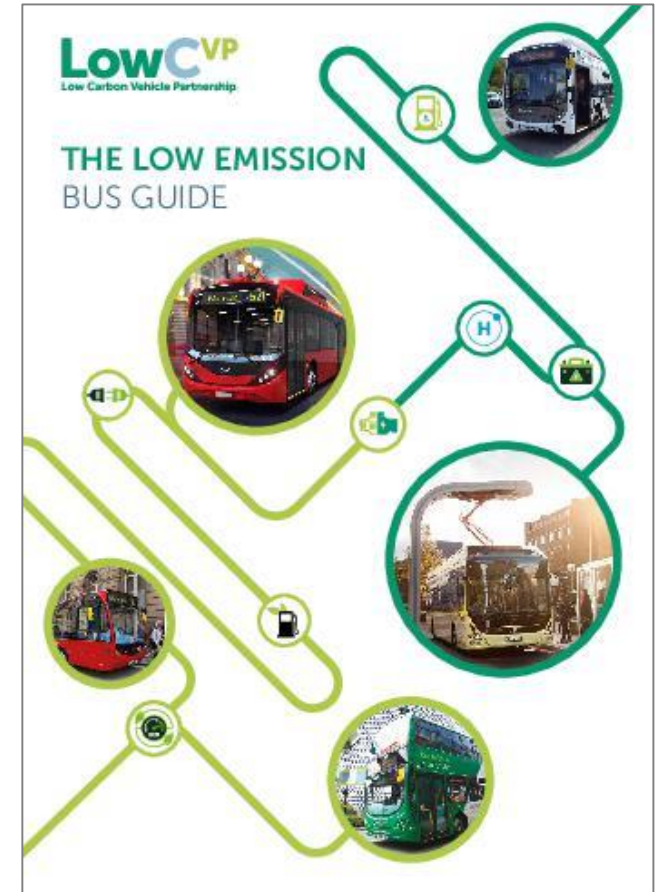
(LowCVP, 2018)

Low Emission Buses – includes AQ

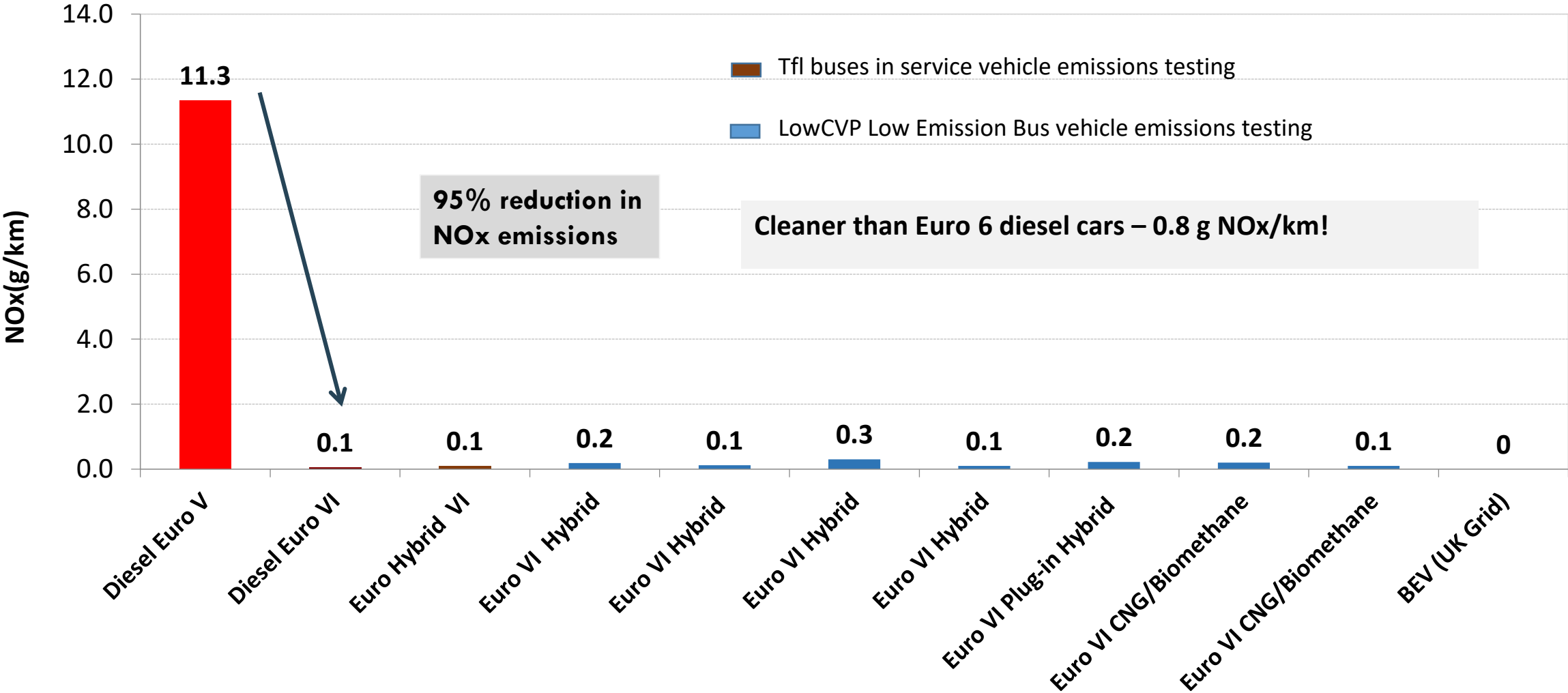
- 15 % well-to-wheel greenhouse gas saving vs Euro V diesel buses & buses must be **Euro VI**.
- £41m funding 476 buses in England, 93 LEBs funded by SGBF 6 & 7
- Test certificates published on LowCVP website
- TRL monitoring programme of LEBS in England
- Estimated 2,570 Low Emission Buses in service
- See [Low Emission Bus Hub](#) for more info

The Low Emission Bus Guide:

- Accredited Models
- Infrastructure options
- UK and EU Case studies



Euro VI is clean for all technologies



Retrofit Solutions & Clean Air Zones

How to support bus industry to meet Euro VI CAZ criteria?

- Need consistency in standards : Euro VI diesel UK wide
Clean Air Zones = Low Emission Zone = ULEZ
- LowCVP evaluation of retrofit programmes 2013-15
- UK accreditation scheme for retrofit technologies

Clean Vehicle Retrofit Accreditation Scheme (CVRAS)

- £40m in England & Wales, £1.6m BEAR 1 + c £8m BEAR 2 in Scotland
- At least 2,000 buses for potential in England – [LowCVP Analysis](#)
- £2.5m for support for testing
- LowCVP supporting bus and coach sectors

Clean Vehicle Technology Fund and Clean Bus Technology Fund Programmes

Evaluation Report

Prepared for the DEFRA/DfT Joint Air Quality Unit

Report
August 2017



Next Gen: Ultra Low Emission Bus Scheme

- LowCVP conducted test programme of 8 Euro VI diesels
- Test Cycle Development - even more representative test e.g. temperature of test cell to 10°C / cabin heating turned on



Ultra Low Emission Bus Definition:

- 30% well-to-wheel GHG savings vs **Euro VI** baseline
- Funding encourage zero emissions mileage (Road to Zero)
- Continue to encourage vehicle efficiency improvements.
- Align terminology with other vehicle sectors – future use in BSOG & CAZ
- 14th Jan 2019 for official announcement, winners to be informed pre- Christmas



Developing Low Carbon BSOG

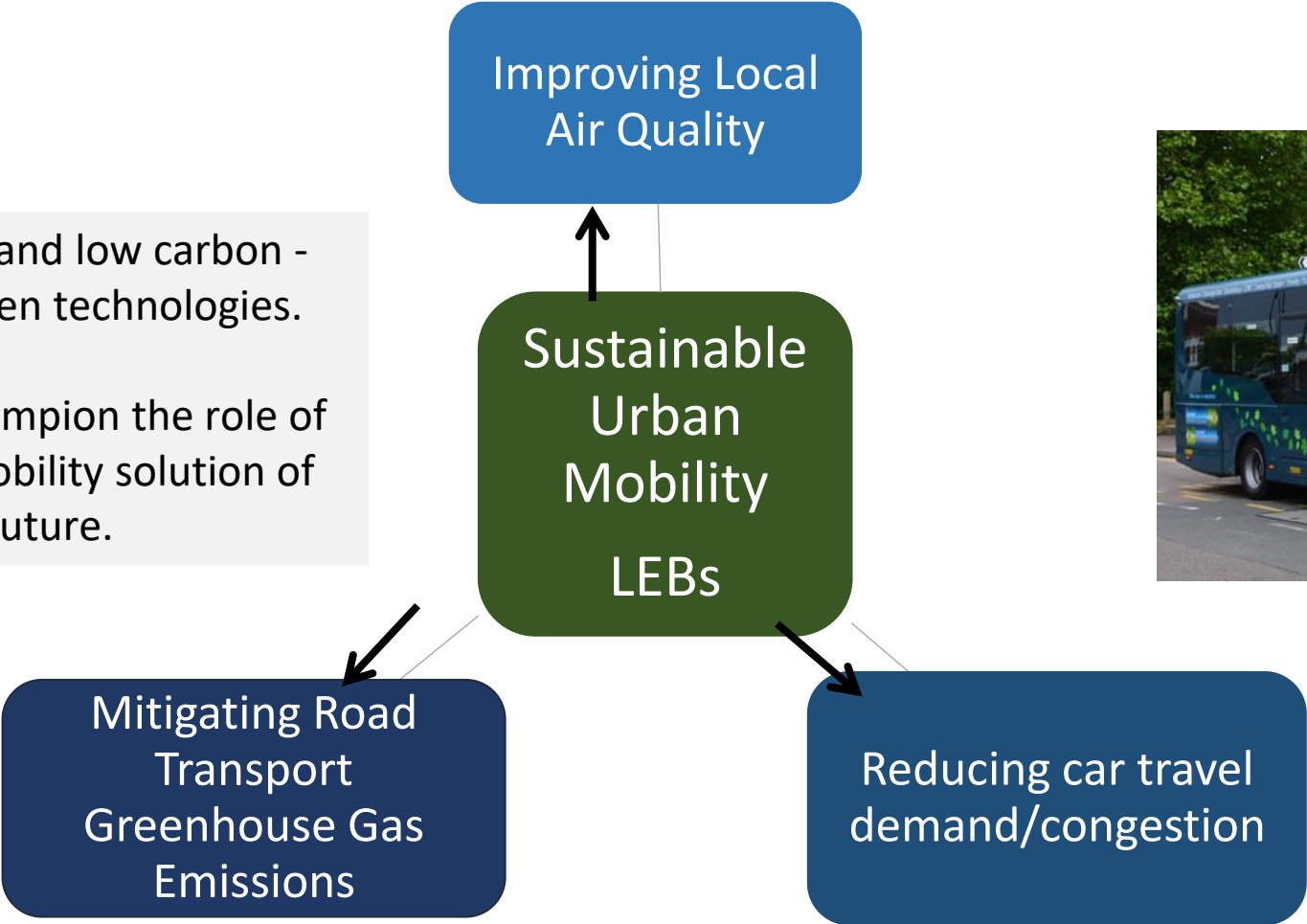
- Currently a flat 6p/km support for LCEBs, LEBs and ULEBs regardless of GHG saving
- LowCVP membership consultation for recommendation paper to DfT in Jan.
- Scotland to introduce BSOG LCV banding in April 2019 (5 year limit on payments)

Definition	Low Emission Bus	Ultra Low Emission Bus	ULEB + Zero Emission Range (+35km)
Rate	5 p /km	10 p /km	25p/km

- **BSOG Workshop on 10th January PM at IMECHE after LowCVP Bus WG meeting**

Huge opportunity for the bus industry to set itself up for the future as THE urban mobility solution

LEBs are clean and low carbon - variety of proven technologies.
LowCVP will champion the role of buses as the mobility solution of the future.



Thanks for listening.



Daniel Hayes

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Interested in joining the Partnership?

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