

# Zemo & MCIA Powered Light Vehicle Community Meeting

23<sup>rd</sup> November 2022



**Zemo  
Partnership**  
Accelerating Transport to Zero Emissions



# PLV Community Group

Accelerating transport to zero emissions



## Agenda.

- 10.15 – 10.45    Welcome and introductions
- Zemo introduction (Andy Eastlake)
  - MCIA Introduction (Tony Campbell)
  - DfT view (Rachel Scott)
- 10.45 – 11.15    PLV Action Plan review
- Progress update (Rob Ward / Alf Brierley)
  - NVN update (Scott Thompson)
  - EST Support and Update (Joe Walters)
- 11.15 – 11.45    Questions / discussion
- 11.45 – 12.00    Wrap-up and next steps

- Event is being recorded
- Please don't discuss anything commercially sensitive
- We'll make slides available

# Welcome to the Zemo & MCIA Powered Light Vehicle Community



Shaping the future of zero emission lightweight transport

Bringing users, manufacturers, central and local Government and other key stakeholders together to drive forward the initiatives, policies and innovations necessary to realise the full potential of zero emission Powered Light Vehicles.

This community will work alongside the UKM group established by MCIA and provide an invaluable independent platform for debate and collaboration; both championing what's already been achieved today whilst assessing and accelerating what's now being delivered through the Government-endorsed Zemo & MCIA 'PLV action plan'.



Department  
for Transport

# L Category Decarbonisation

## DfT Update

Rachel Scott

23<sup>rd</sup> November 2022

# Background

- **June 2019:** Legally binding commitment to reach net zero by 2050
- **July 2021:** Transport Decarbonisation Plan published confirming:
  - All new road vehicles will be zero emission by 2040 at the latest, most earlier
  - Committed to consulting on an end of sale date of 2035, or earlier if a faster transition appeared feasible, for the sale of new non-zero emission L-category vehicles
- **February 2022:** Realising the Full Potential of Zero Emission Powered Light Vehicles: A Joint Action Plan for Government and Industry published
- **July 2022:** Consultation on when to end the sale of new non-zero emission L-category vehicles opens
- **September 2022:** Consultation closed. Thank you for your responses, which we are now analysing. A full government response to be published in due course.

Table 1: Proposed end of sale dates for new non-zero emission L-category vehicles:

| 2030   | 2035  |
|--|---|
| L1 (mopeds)<br>L2 (two wheeled mopeds)<br>L3e-A1 (small motorcycles)<br>L6 (light four wheelers)<br>L7 (heavy four wheelers) | All other L3 vehicles (motorcycles)<br>L4 (motorcycles with sidecars)<br>L5 (three wheeled motorcycles) |

# What does this mean for the action plan?

- As we work at pace to decarbonise the sector, we are convinced the opportunities for zero emission light powered light vehicles are enormous.
- We will continue to work with industry and other stakeholders to prime the sector ahead of ending the sale of new non-zero emission vehicles:
  - £350,000 funding for a feasibility competition to help industry develop the zero emission motorcycle supply chain in the UK.
  - Working alongside the Energy Saving Trust to understand barriers and opportunities for zero emission PLVs and to highlight the benefits to businesses, local government and other users.
- While the Transport Bill announced in May 2022 has now been cancelled, government is pursuing alternative legislative options for our micromobility measures. These aim to create a new 'Low speed Zero Emission Vehicle' category, with powers to opt in selected vehicles types and regulate them with more flexibility than is currently available for motor vehicles.

# Welcome to Zemo Partnership

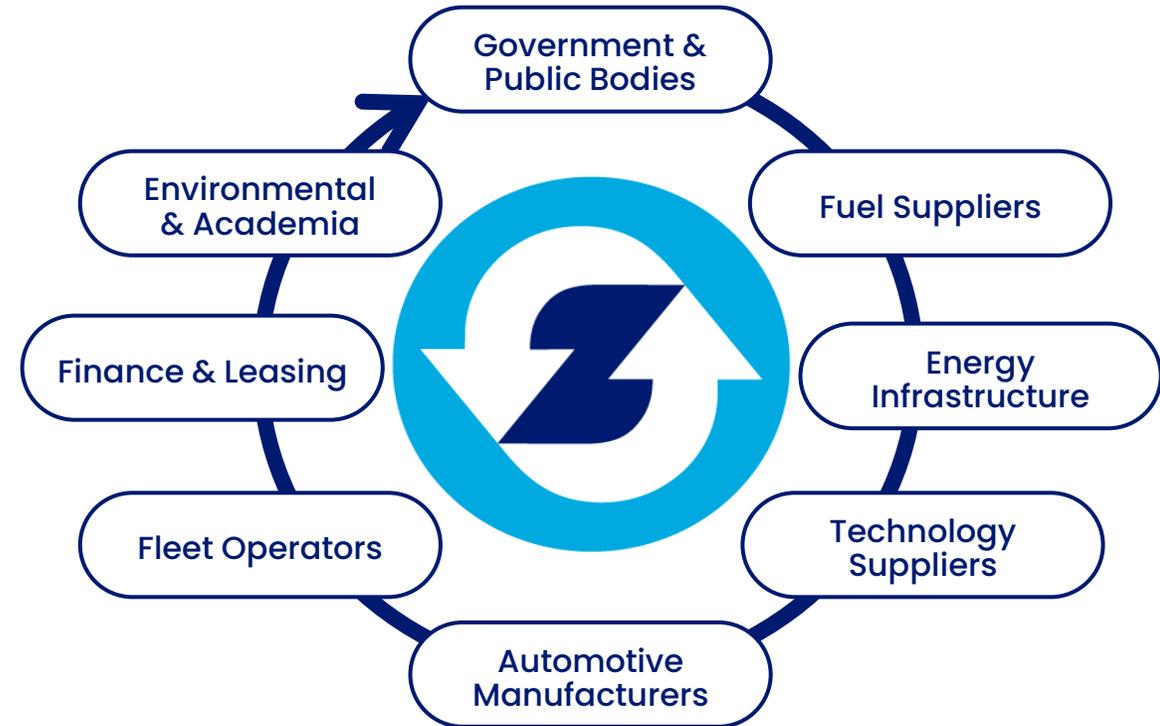
Accelerating transport to zero emissions



Previously LowCVP (2003–2021).

An independent, non-profit partnership that brings together government, industry and a wide range of expert stakeholders in the field of zero-emission mobility.

The Partnership plays a key role in helping the UK Government to deliver its zero carbon transport strategy, with the objective of ensuring that the UK takes a leading role in the global shift towards low & zero carbon transport.



# Just some of our members



And many more.....



# Our work



Working Groups are at the heart of our member action on buses, passenger cars, fuels, commercial vehicles and energy infrastructure.



## Buses & Coaches

Action programmes to speed the introduction of zero emission buses in the UK by working with passenger transport companies and local authorities



## Cars

Working with manufacturers, fleet operators, environment and consumer groups to accelerate the adoption of zero emission cars.



## Fuels

We explore measures to increase the adoption of sustainable low carbon fuels such as biofuels and renewable hydrogen.



## Commercial Vehicles

For manufacturers, freight transport operators, technology suppliers, technical experts and others interested in accelerating the transition to cleaner, greener road freight.



## Energy Infrastructure

Formed to make suggestions to Government and industry to ensure that the GB energy system is ready for and able to facilitate and exploit the mass take up of electric vehicles.

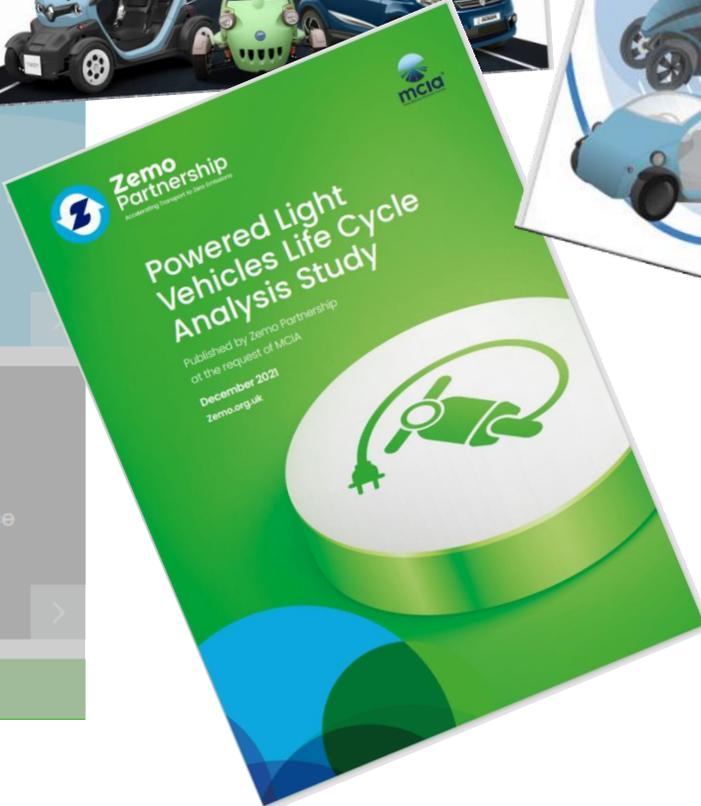
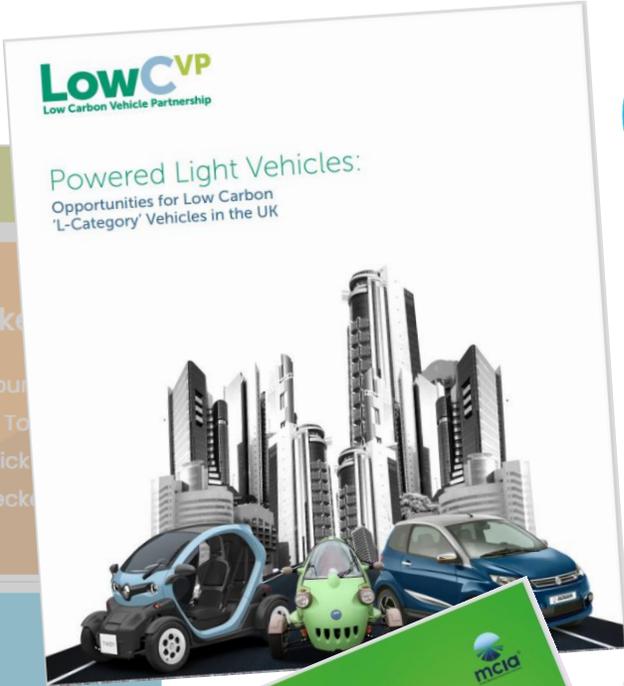


## Collaborative Initiatives

Joint working group projects where content crosses over, overseen by the members' council.

# Our work – including PLV's

|  |  |
|--|--|
| <p><b>EV Energy Taskforce</b></p> <p>Ensuring the electricity network is ready for the mass take up of EVs</p>   | <p><b>E10 Compatibility Check</b></p> <p>Whilst over 95% of petrol vehicles on our roads can use E10 petrol, some should not. To help these drivers, we've developed a quick and easy number plate driven E10 checker.</p> |
| <p><b>Powered Light Vehicles</b></p> <p>Zemo &amp; MCIA action plan for government-industry to stimulate opportunities and policies that drive the uptake of zero emission 'L-Category' vehicles</p> | <p><b>Decarbonising UK trucks</b></p> <p>Results of three-year, £32m LEFT programme to cut freight emissions</p>   |
| <p><b>Electrifying depot-based fleets</b></p> <p>Identifying barriers and opportunities to unlock the zero emission fleet market</p>   | <p><b>Defining a Zero Emission Bus</b></p> <p>Developing standards and policies to reduce GHGs and improve air quality</p>   |



# The Zemo process

Sectors at different stages of the journey to zero emission



Creating communities with shared goals

Understanding and evidence-based research

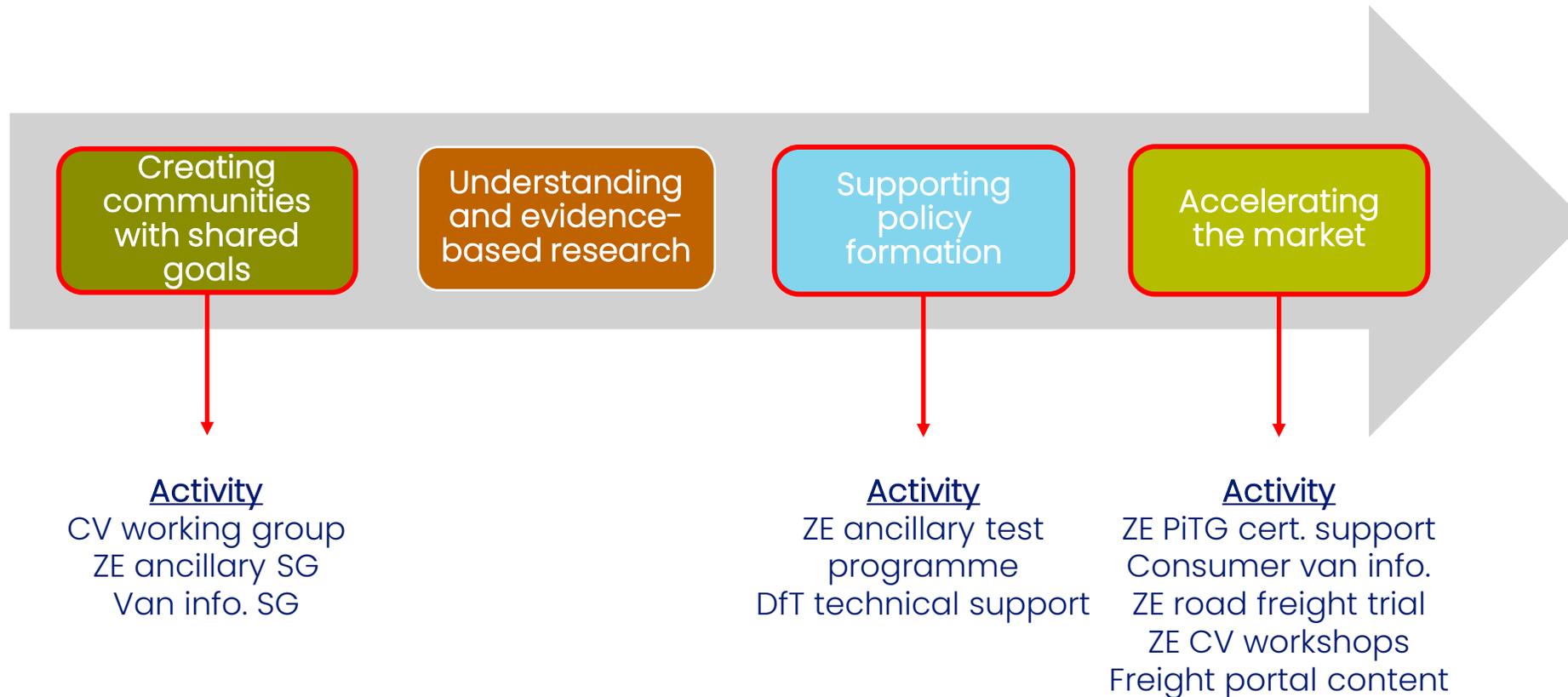
Supporting policy formation and information

Accelerating the market



# Journey to target

Delivering a zero-emission freight & logistics sector



## 2024 Ambition

>20% of new van registrations are plug-in or zero emission

10% of new N2 truck sales are zero emission (tailpipe)

All new sales of auxiliary power units (TRU etc) are low emission (Euro 6 eq) or zero emission

Industry on track to achieve or better the 15% GHG emission reduction commitment in 2025

5% of new N3 truck sales are zero emission (tailpipe)

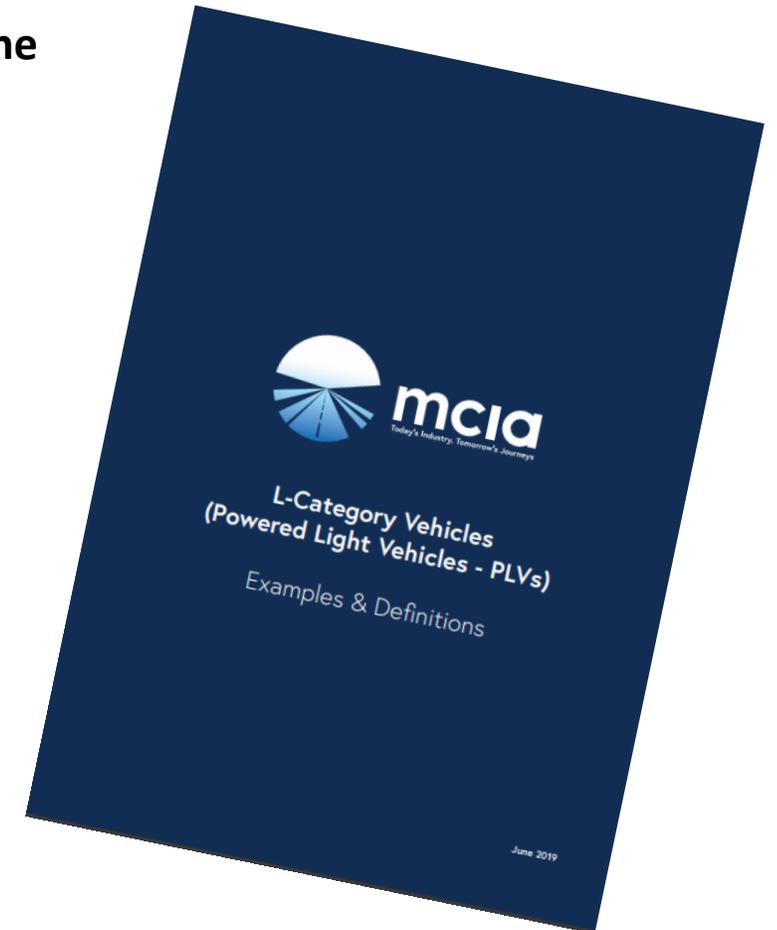
# MCIA introduction



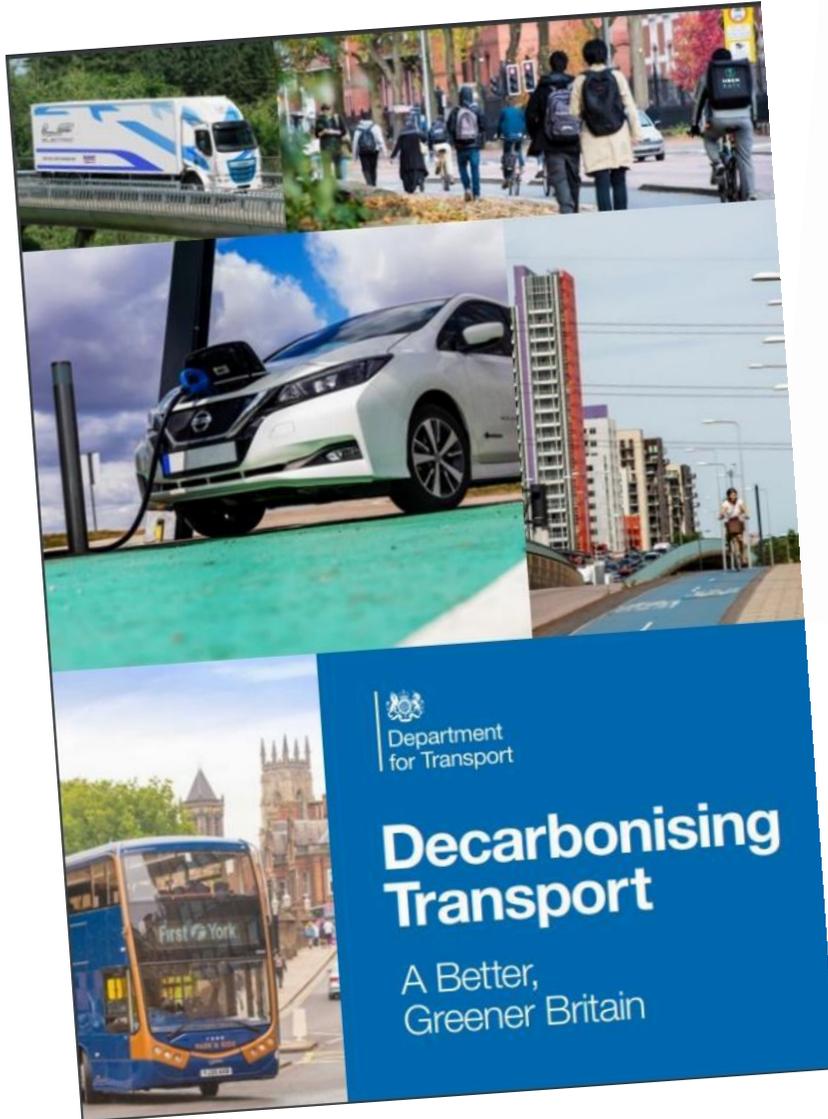
The MCIA represents in excess of 90% of the supply side of the industry; the manufacturers and importers of Powered Two Wheelers (PTWs) and other [L-Category vehicles](#), accessory and component suppliers and companies providing associated services.

Over 180 members split across 6 membership categories:

- Accessory & Components
- Associates
- Event, Marketing & PR
- Honorary
- Manufacturer & Importers
- Service Providers



# PLV: Transport decarbonization plan



## Commitment

**We will deliver an action plan this year to build new UK opportunities for zero emission light powered vehicles**

Innovation in urban logistics and personal mobility can generate substantial industrial opportunities for the UK, as the world transitions to greener transport systems. The opportunities for zero emission light powered vehicles (ZELPV) are enormous. We will build on our existing support in this segment, such as with the plug-in motorcycle grant, to benefit urban logistics and wider mobility and look to grow a new UK industrial supply chain. We will use Zemo Partnership's strategic partnership with the Motorcycle Industry Association (MCIA) to stimulate and coordinate activity in this area and publish options to develop this at national and local level this year.

### Zero emission light powered vehicles

Powered light vehicles are two, three and four wheeled passenger or cargo vehicles. They are smaller and lighter than many other vehicle types and so can have a significant impact on urban transport systems, particularly when used in place of other forms of low occupancy vehicles. Their size also makes them complementary to increased public transport use and the growth of cycling and walking infrastructure.

# PLV: PLV Action Plan



4 Key Themes-10 Key Actions.

- Supply Ahead of Demand
- Drive Demand by Stimulating the Market
- Improve & Ease Access to the Sector & use
- Increase Integration & Infrastructure



## Supply Ahead of Demand



1 A review of existing L-Category vehicle regulation to ensure it remains fit for purpose and caters for the evolution of future zero emission PLVs, including assessing the potential for a new vehicle category.



2 Developing the component and system supply chain in the UK for zero emission L3-Category powered two-wheelers (PTWs) to encourage new entrants to the market, lower manufacturing costs and maximise the potential for GHG emission savings.



3 Developing the manufacturing base and supply chain in the UK for zero emission L7 cargo vehicles to increase the number and availability of models on the market, providing a greater degree of consumer and fleet choice.

## Drive Demand – Stimulating the Market



4 A review of the current grant and incentivisation structure in the PLV sector, including adopting learning from other vehicle categories where the roll out of zero emission tailpipe vehicles has proven successful.



5 Conducting a public awareness campaign jointly led by Government and industry to promote the existence, availability, and benefits of zero emission PLVs to consumers and businesses.

## Improve Access – Offering a Viable Alternative



6 Simplifying the existing licensing regime across all L-Category segments to improve access to zero emission PLVs for a wider section of the community, increasing access, uptake and adoption.



7 Increasing mobility in rural communities by providing access to affordable zero emission PLV solutions using initiatives such as Wheels to Work.

## Increase integration – incorporating PLVs into infrastructure and communities



8 Engaging with local authorities through the Local Authority Transport Decarbonisation Toolkit to ensure zero emission PLVs form part of an integrated transport solution for the UK.



9 Creating a formal L-Category community to engage with the Government and monitor the delivery of this Action Plan.



10 Engaging with industry to ensure zero emission PLVs are considered and incorporated into the development of the EV charging infrastructure.

# So what's happened so far?



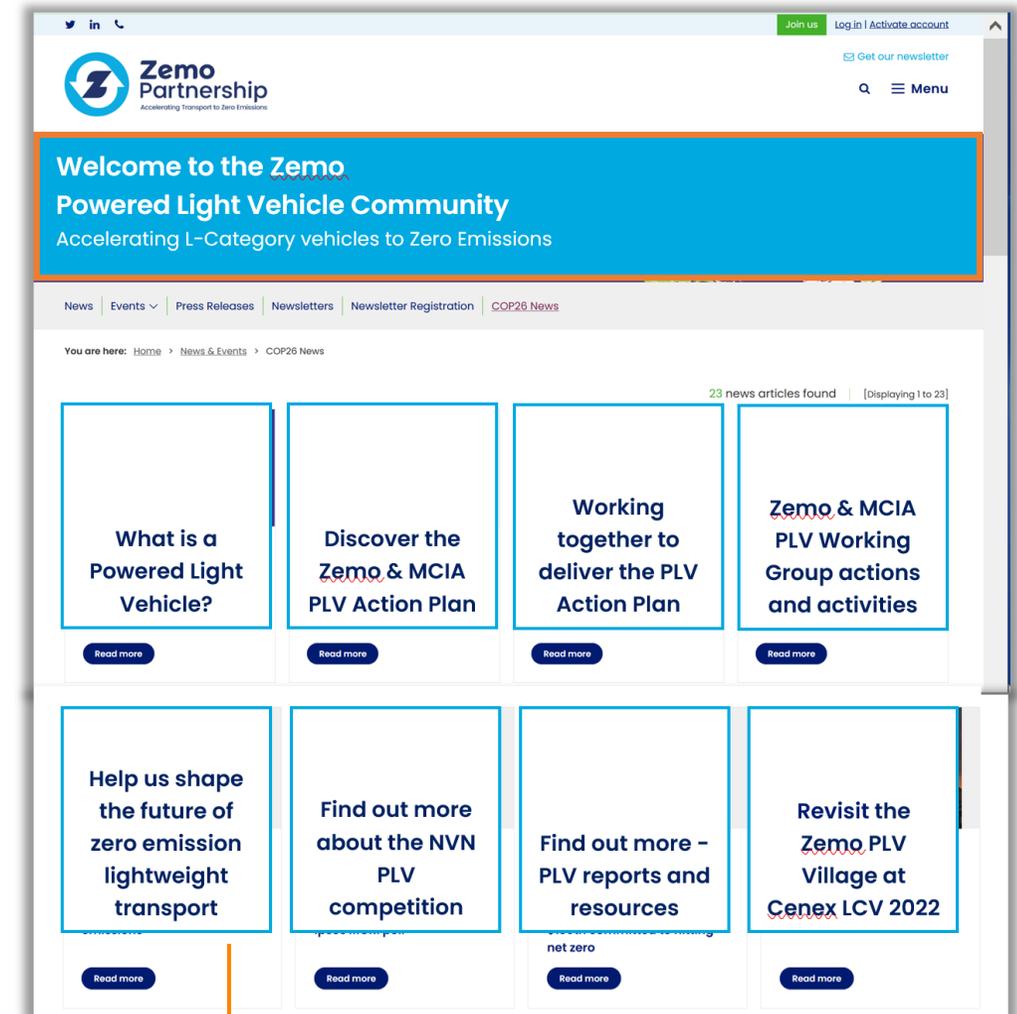
## PLV Village at CENEX – LCV



# Building the Powered Light Vehicle community online

## The Zemo website PLV community 'hub'

- ⌚ A dedicated area that presents an engaging platform of broad PLV activity, amplifying the vision and encapsulating the work this community (and others) are doing.
- ⌚ Clearly highlighted from the Zemo homepage
- ⌚ Has prominence and cut through.
- ⌚ Allows us to focus and draw attention to the key community activities.
- ⌚ Is easily updated – new content blocks can be added indefinitely
- ⌚ **Please note – this is NOT the final design or content, but simply an indication of the overall approach currently being developed**



Each 'PLV community' headline would then link to a detailed page of content or external site <sup>19</sup>

# So what's happened so far?



## Action 1.

A review of existing L-Category vehicle regulation to ensure it remains fit for purpose and caters for the evolution of future zero emission PLVs, including assessing the potential for a new vehicle category.

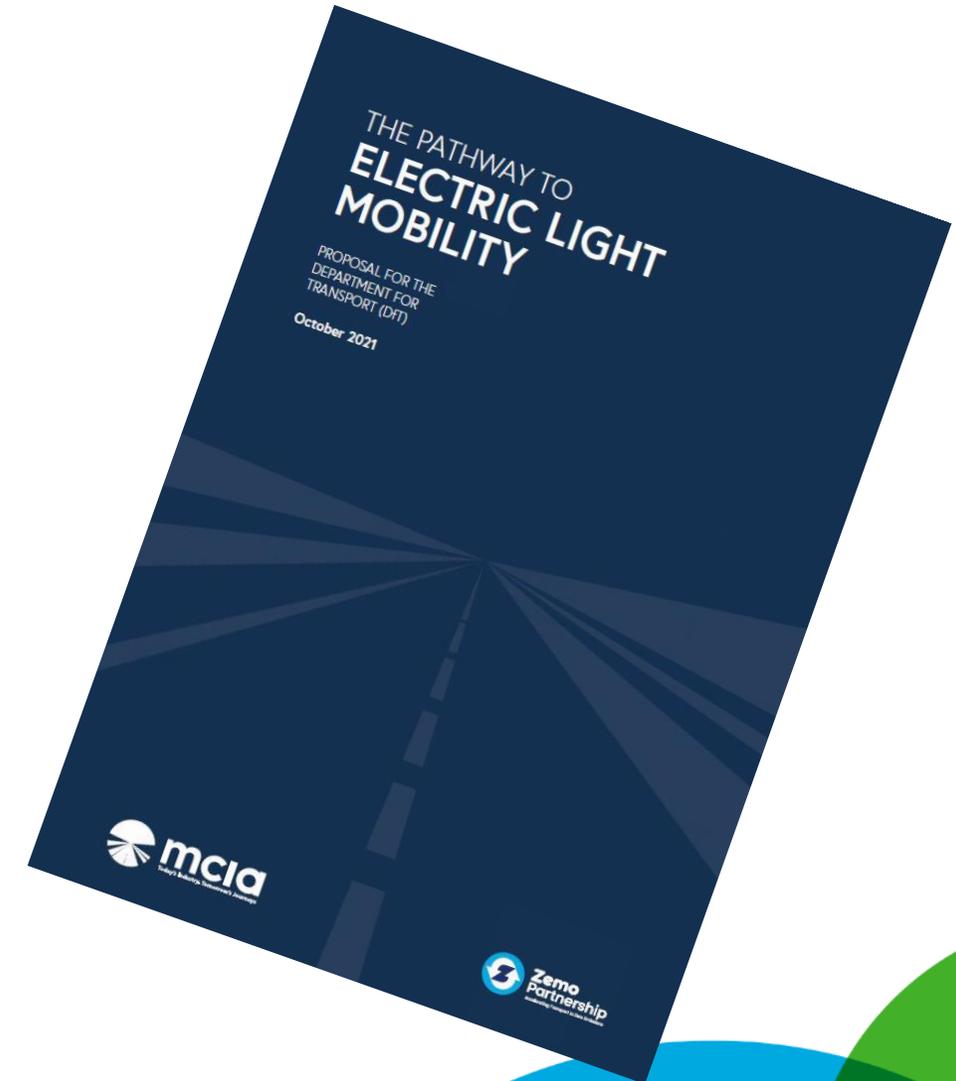
Lead: MCIA

Context:

## Activity:

'Pathway to electric light mobility' policy document written and submitted to DfT. Puts forward three recommendations premised on amending the existing 168/2013 Type Approval (TA) Framework.

1. Creating a new lower power electric light moped (this will necessitate changes to existing licensing regulations)
2. Including e-step scooters in the regulatory framework (168/2013) to ensure safe design, durability and quality in meeting the test standards that are required for the use of motor vehicles on public roads in the UK; and; and
3. Lowering the maximum power for current electric mopeds from 4kW to 3kW.



# Action Plan



## Action 2.

Developing the component and system supply chain in the UK for zero emission L3-Category powered two-wheelers (PTWs) to encourage new entrants to the market, lower manufacturing costs and maximise the potential for GHG emission savings.

## Action 3.

Developing the manufacturing base and supply chain in the UK for zero emission L7 cargo vehicles to increase the number and availability of models on the market, providing a greater degree of consumer and fleet choice.

Lead: Zemo

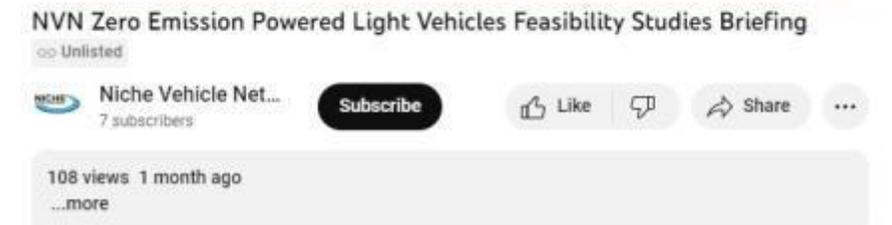
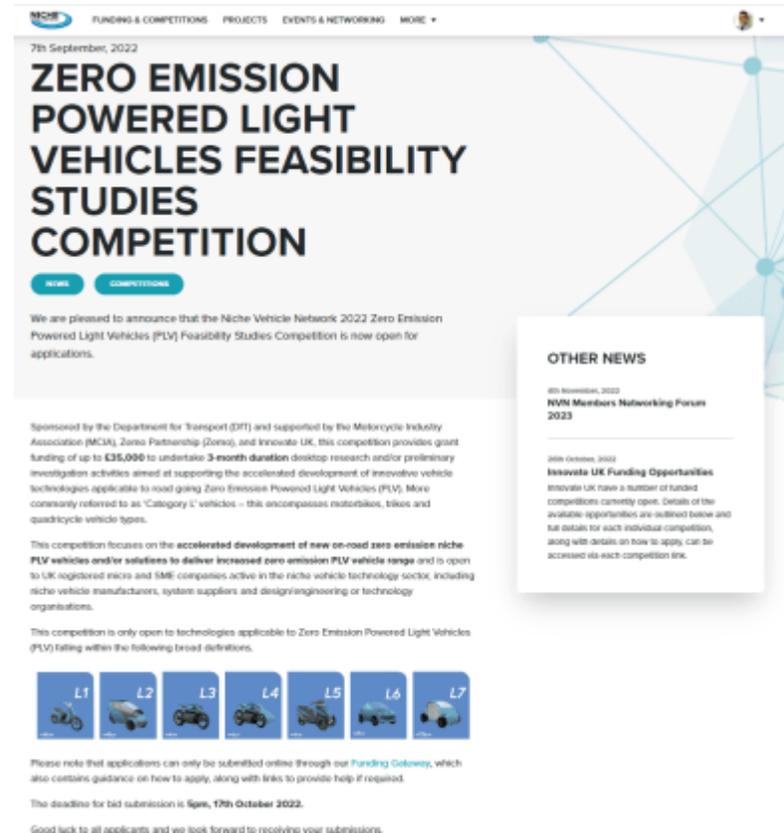
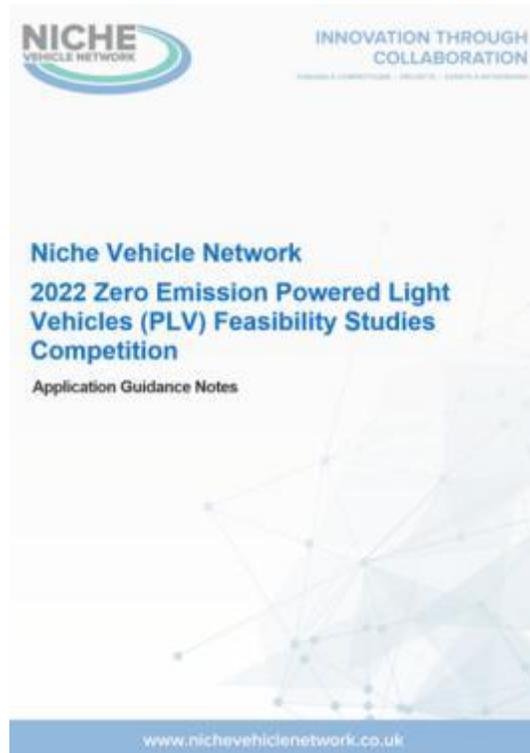
## Activity:

Engaged with Niche Vehicle Network to run feasibility study competitions. In progress.  
Scott...

# Action Plan - NVN



## Niche Vehicle Network (NVN) 2022 Zero Emission Powered Light Vehicles Feasibility Studies Competition



# Action Plan – NVN



## Niche Vehicle Network (NVN) 2022 Zero Emission Powered Light Vehicles Feasibility Studies Competition

Launched on the 7<sup>th</sup> September 2022, with funding support from the Department for Transport (DfT), the competition will provide grant funding to undertake 3-month desktop research and/or preliminary investigation activities to help stimulate the zero emission PLV sector.

- Open to all zero emission PLVs in categories L1eB – L7e , but with a specific interest in projects that support the development of products and components in the L3e & L7e categories
- The competition closed on 17<sup>th</sup> October 2022, with over 40 applications received
- Bids have subsequently been independently assessed, and are currently being reviewed with DfT
- We aim to let applicants know if they have been successful or rejected by 30<sup>th</sup> November, in order for financial due diligence checks & contracting to be completed during December 2022
- Successful applicants will commence their projects on 2<sup>nd</sup> January 2023, and complete by 31<sup>st</sup> March 2023



# So what's happened so far?



## Action 4.

A review of the current grant and incentivisation structure in the PLV sector, including adopting learning from other vehicle categories where the roll out of zero emission tailpipe vehicles has proven successful.

Lead: MCIA

## Activity:

- Work on this action is ongoing.
- Commitment from DfT to review the current incentives programme and to work with industry in conceiving a bespoke L-Category incentives programme.

# So what's happened so far?



## Action 5.

Conducting a public awareness campaign jointly led by Government and industry to promote the existence, availability, and benefits of zero emission PLVs to consumers and businesses, including PLVs and their being considered and incorporated into the development of EV charging infrastructure.

Lead: MCIA

## Activity:

- EST are working on behalf of DfT and have significant expertise in this area.
- We are working in partnership to raise awareness using tools such as the Local Authority Toolkit.

# So what's happened so far?



## Action 6.

Simplifying the existing licensing regime across all L-Category segments to improve access to zero emission PLVs for a wider section of the community, increasing access, uptake and adoption.

Lead: MCIA

## Activity:

- Developed proposals on licencing amends which will ease access and improve road safety.
- Has been presented to DVSA.
- Hopeful legislative change will be possible within the forthcoming Future of Transport Bill.

# So what's happened so far?



## Action 7.

Increasing mobility in rural communities by providing access to affordable zero emission PLV solutions using initiatives such as Wheels to Work.

Lead: MCIA

## Activity:

- Introductory meeting between Wheels to Work, DfT and EST confirmed.
- Proposals for how to expand the scheme being finalised.
- Ongoing work between MCIA, EST and W2W to collate video case studies.

# Action Plan



## Action 8.

Engaging with local authorities through the Local Authority Transport Decarbonisation Toolkit to ensure zero emission PLVs form part of an integrated transport solution for the UK.

Lead: MCIA

Activity: Currently in talks with DfT and EST re direct drafting of the PLV section of the communications toolkit.

# Action Plan



## Action 9.

Creating a formal L-Category community to engage with the Government and monitor the delivery of this Action Plan.

Lead: Zemo

## Activity:

- PLV Community group created to encourage:
  - To act as a forum for interaction between all of the various players in this area
  - To keep members up to date with progress of the Action Plan
  - To ensure that all members are aware of initiatives being put in place to promote PLV uptake
  - To allow members the opportunity to take part in, and make suggestions for future initiatives
- Work along side MCIA UKM community
- PLV Community group meeting ongoing – cadence TBD – views welcome.

energy  
saving  
trust

# Energy Saving Trust PLV project



# About Energy Saving Trust

- We are an independent organisation working to address the climate emergency
- We provide leadership and expertise to deliver a zero carbon society
- We work with individuals, businesses, communities and governments to save energy and reduce carbon emissions

Impartial

Expert

Collaborative

Supportive

Determined

Innovative

# Our PLV objectives

- Work with local authorities and business on PLV initiatives, solutions and opportunities
- Action 4: Support review of grant and incentivisation structure
- Action 5: Conduct an awareness campaign through our webpage, information packs, case studies and webinars
- Action 7: Promote PLV solutions in our rural-based projects
- Action 8: Engage with Local Authorities and produce a PLV chapter for the Local Authority Transport Decarbonisation Toolkit
- Continued engagement with MCIA, Zemo, DfT and PLV community

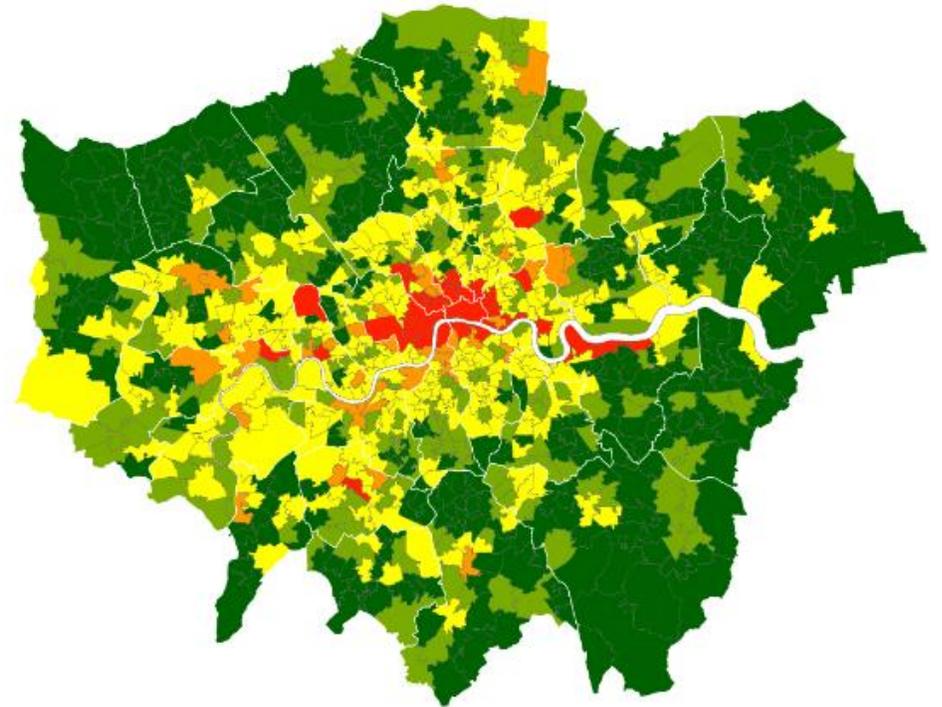
# PLV roadshows

- Facilitate PLV roadshows with local authorities targeting local businesses and consumers
- Opportunity for suppliers to showcase solutions and discuss local use case requirements



# Geospatial feasibility study

- Define areas with greatest PLV potential
- Focus on last mile delivery and service use cases
- Evaluate potential van displacement



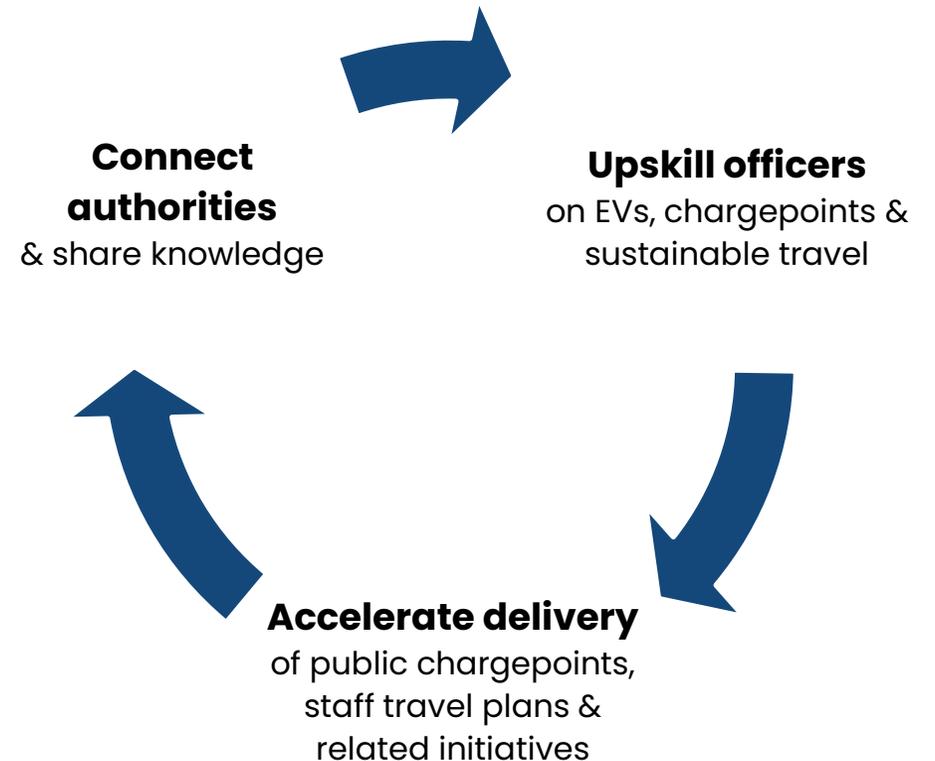
**GIS model to forecast volume growth and potential to displace vans, and assess the suitability of e-cargo bikes across London**

Transport for London; Cargo bike strategy update; MTS Freight Forum; 30/06/22

# Local Government Support Programme

**Here to help deliver council's ambitions on decarbonising transport and cleaner air.**

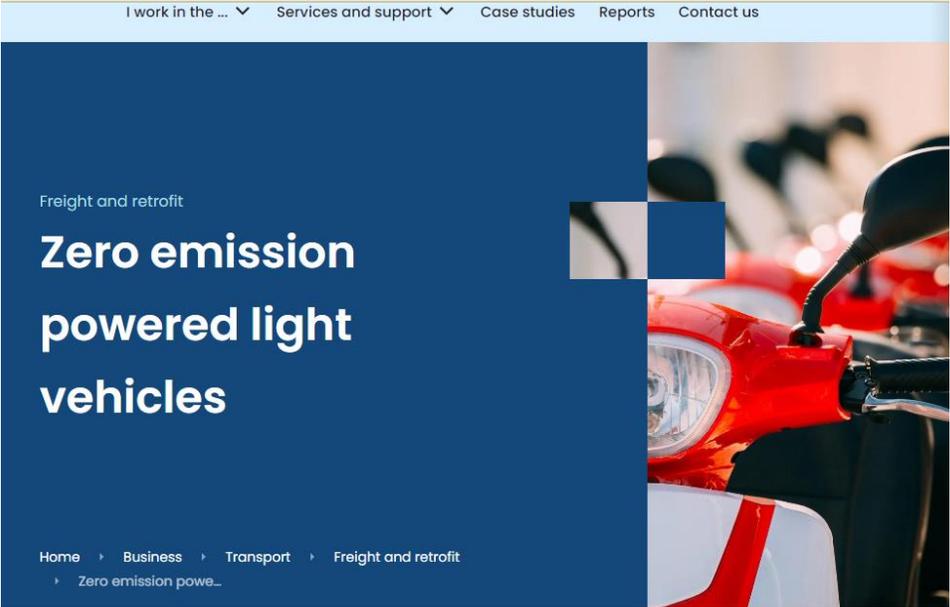
- Fully funded by the Department for Transport
- Support is free and impartial
- Open to all English councils
- Specialise in EVs and sustainable travel
- PLV work will feed into this programme



# EST Web page

**To act as a focal point for EST initiatives and ensure easy access to information for all stakeholders.**

<https://energysavingtrust.org.uk/service/powered-light-vehicles/>



The screenshot shows a web page with a blue header containing navigation links: 'I work in the ...', 'Services and support', 'Case studies', 'Reports', and 'Contact us'. The main content area has a dark blue background with the text 'Freight and retrofit' and 'Zero emission powered light vehicles'. Below this is a breadcrumb trail: 'Home > Business > Transport > Freight and retrofit > Zero emission powe...'. The page features a large image of a red vehicle being charged. At the bottom, there is a section titled 'What are powered light vehicles?' with two paragraphs of text. A gear icon is on the left and an upward arrow icon is on the right.

I work in the ... Services and support Case studies Reports Contact us

Freight and retrofit

## Zero emission powered light vehicles

Home > Business > Transport > Freight and retrofit  
> Zero emission powe...

### What are powered light vehicles?

Powered Light Vehicles (PLVs), or L-Category vehicles, are a group of two-, three- and four-wheel vehicles categorised into seven groups by power output, number of wheels and maximum weight.

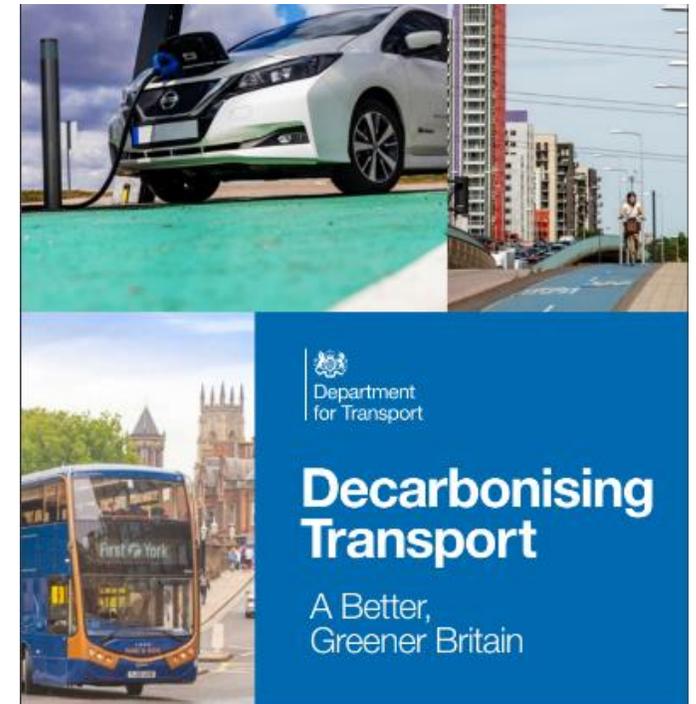
A lightweight and lower cost alternative to traditional vehicles, zero emission PLVs offer zero emission transport for personal use, commuting, service use and cargo delivery services.

# Local Authority Toolkit

- We are preparing to deliver a chapter on PLVs in an upcoming batch of toolkit measures
- The toolkit provides guidance and information to help LAs design and implement transport decarbonisation schemes. Provide support to:
  - Build business cases
  - Develop innovative policies
  - Secure funding
  - Deliver measures on the ground

## Commitment

**We will publish a Local Authority Toolkit in 2021, providing guidance to support local areas to deliver more sustainable transport measures**



energy  
saving  
trust

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# Questions / Discussion



- Who should be included that isn't already?
- Involvement in EST "roadshows"?
- CENEX-LCV 2023 – September 2023 [PLV Village 2022 video](#)
  - Expansion of PLV Village?
  - Ride and drive?
- If you have questions / comments / anything to raise then contact:
  - Zemo: Rob Ward  
[rob.ward@zemo.org.uk](mailto:rob.ward@zemo.org.uk)
  - MCIA: Alfie Brierley  
[A.Brierley@mcia.co.uk](mailto:A.Brierley@mcia.co.uk)
- MCIA and Zemo are membership organisations – join to help shape the discussion

# Wrap-up / Next steps



- Action is happening
- We want everyone to be involved
- New supplier / manufacturer / LA relationships already formed – that will continue
- Government (central and local) open to ideas and discussions
- Roadshows happening
- EV area at MC Live
- PLV Village to continue/expand
- Next community meeting date TBD – based on 2023 Zemo/MCIA work programmes
- MCIA member conference 24<sup>th</sup> January

# Thank you



**Zemo  
Partnership**  
Accelerating Transport to Zero Emissions

Any questions? Please get in touch

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Interested in joining the Partnership?

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Membership Coordinator

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