



Department  
for Transport

# Transitioning to a zero emission road freight sector

Cold Chain Climate Summit 2023

Mollie Johnson & Tom Froggatt

15 March 2023



**Mollie Johnson**  
**Senior Policy Advisor**  
**Zero Emission HGVs**

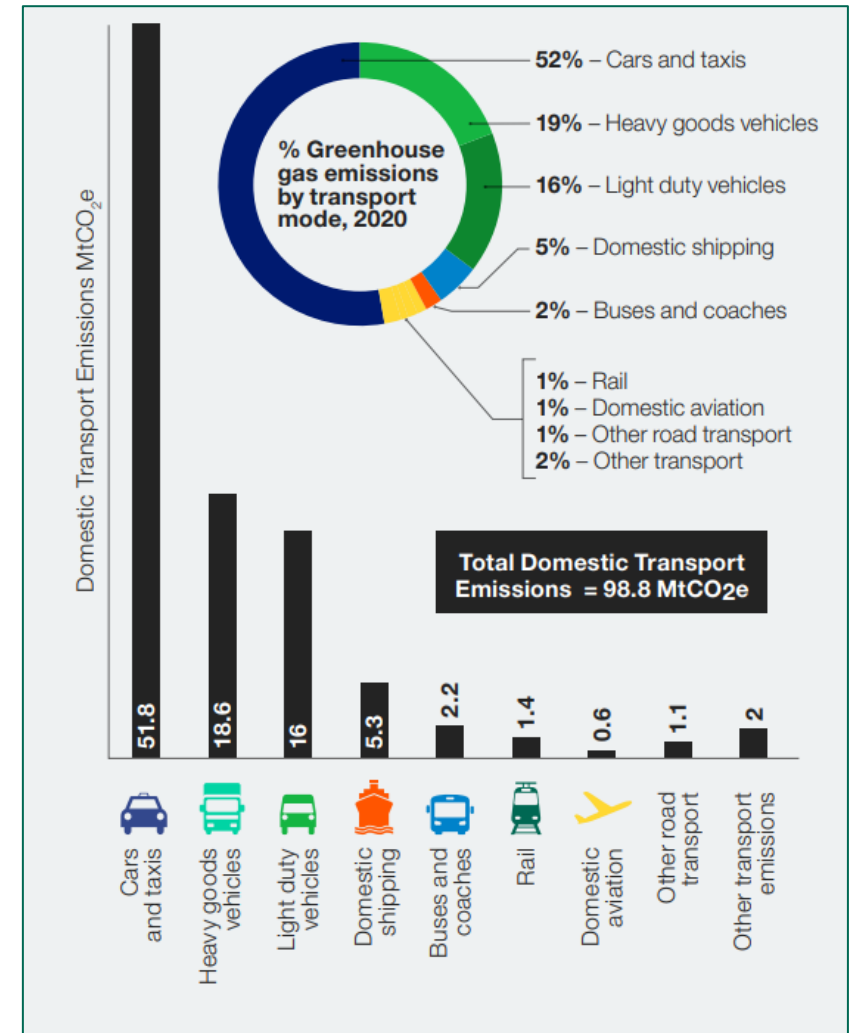
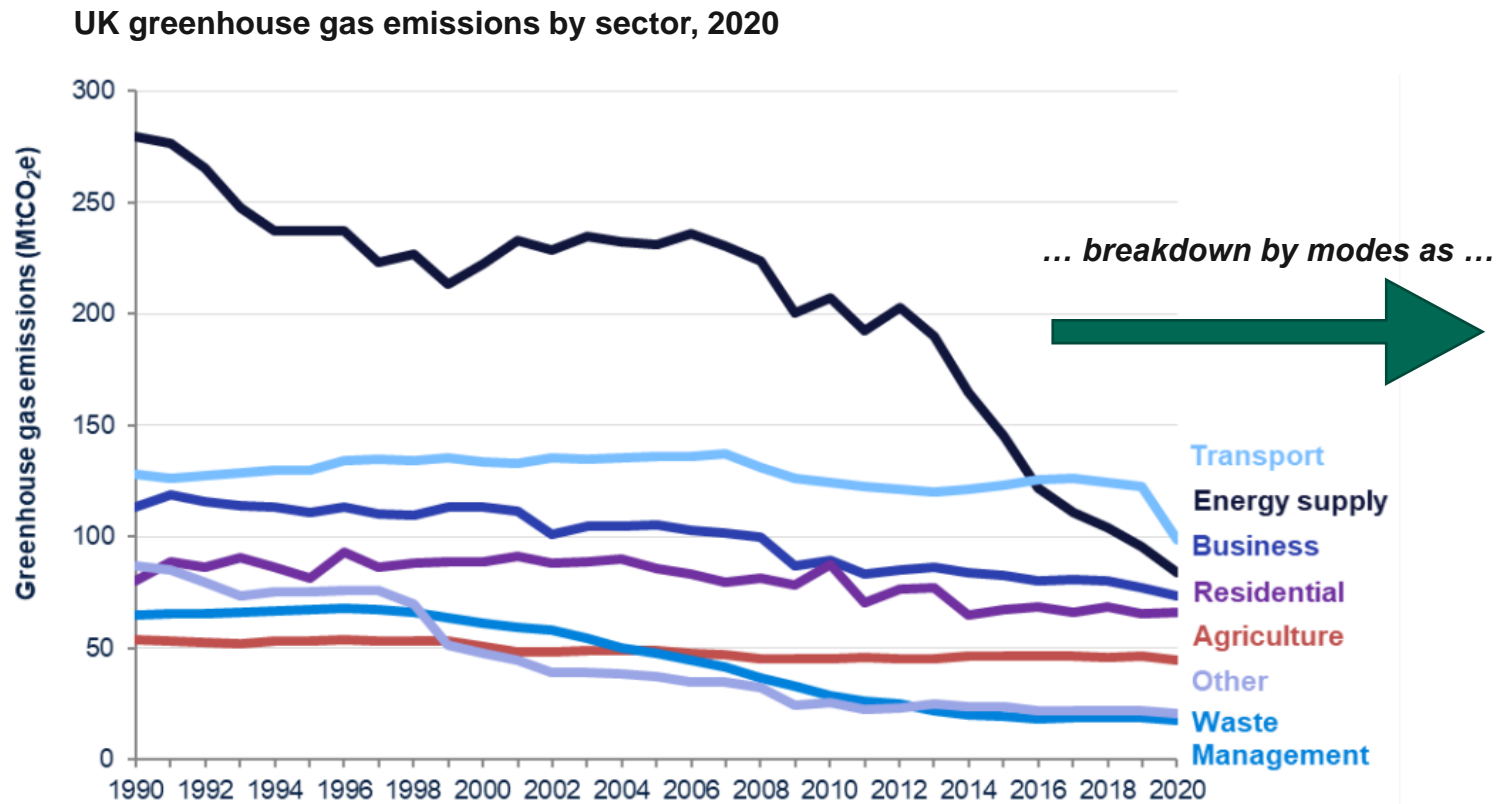


**Tom Froggatt**  
**Policy Advisor**  
**Zero Emission HGVs**

# Overview

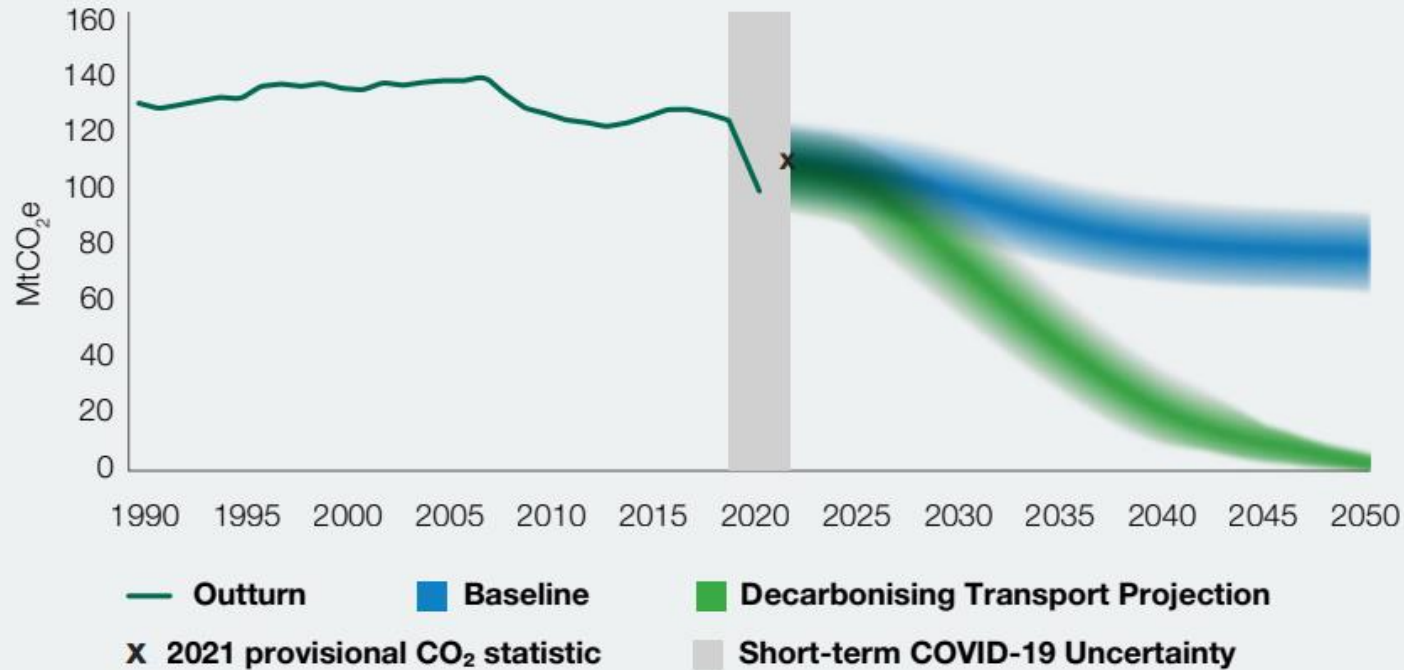
## The UK's road transport decarbonisation commitments

# Transport emissions fell dramatically in 2020 during the pandemic, but it remains the largest emitting sector

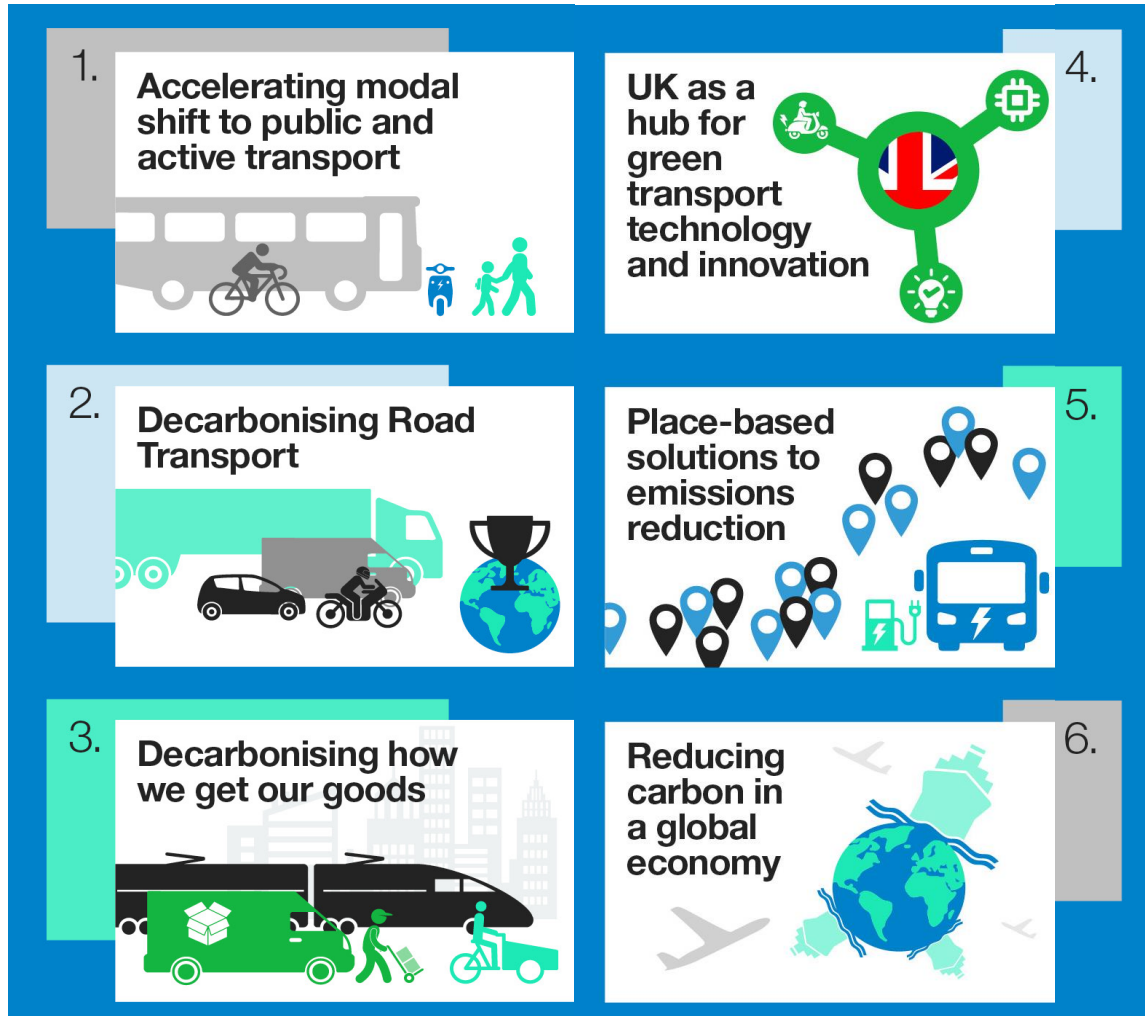


# In 2021, we set out our plans for transport in the Transport Decarbonisation Plan, and the Government published the Net Zero Strategy...

**Decarbonising Transport domestic transport greenhouse gas projection including latest outturn data**



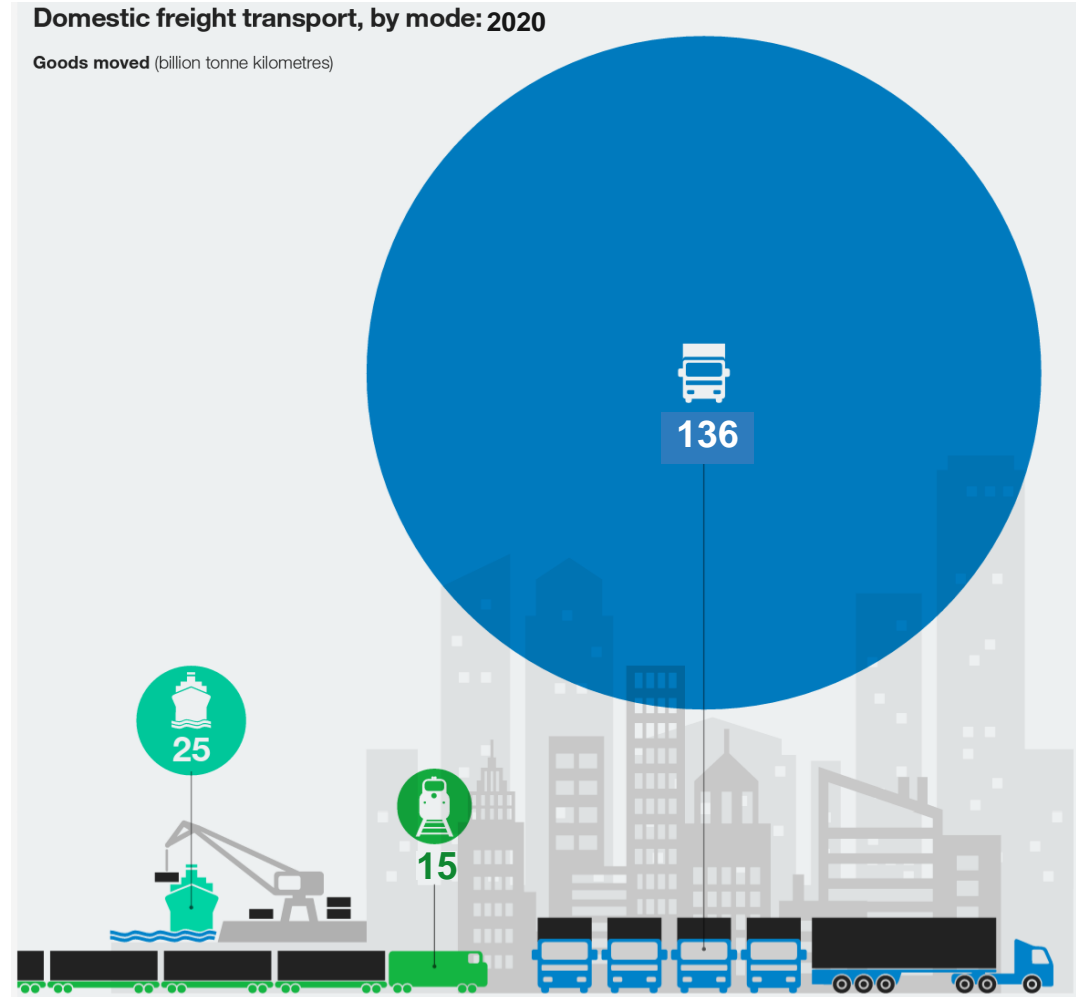
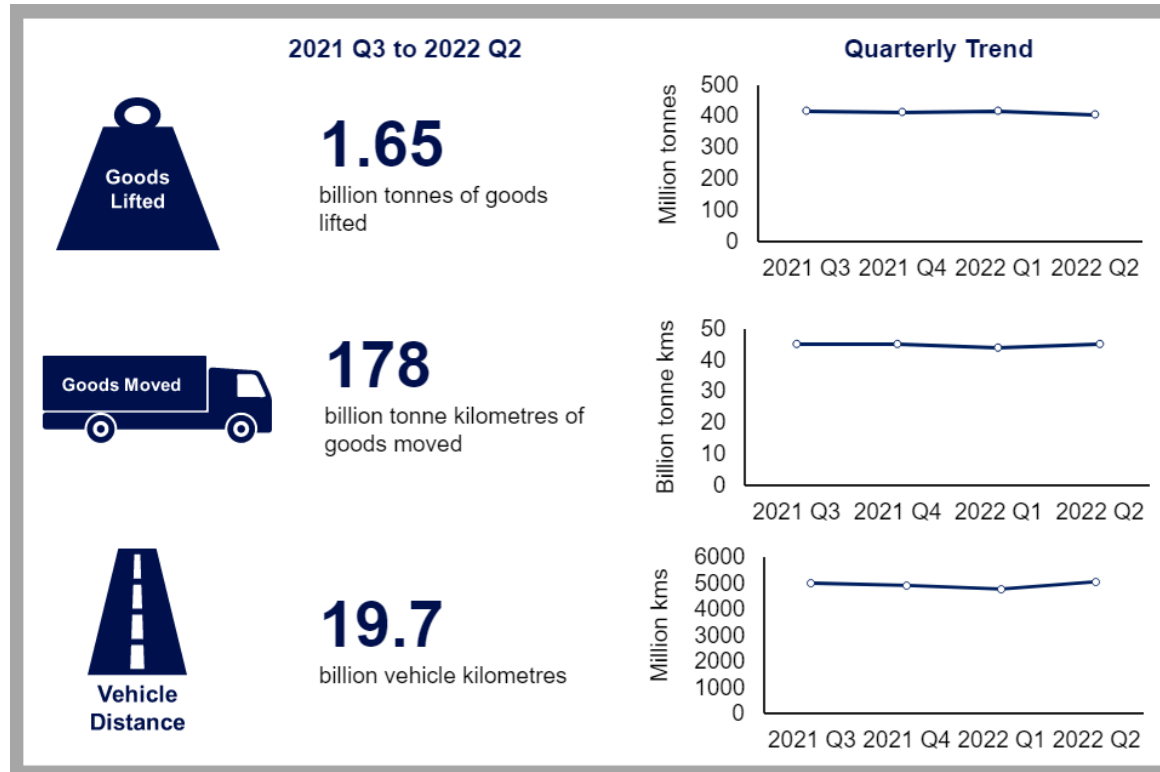
# ...which will do much more than decarbonise.



# The issues facing road freight



# HGVs move the vast majority of freight in the UK





# As you can see...

Rank		Commodity	Goods lifted (million tonnes)	Proportion of all goods lifted
1		Groupage	352	21%
2		Mining, quarrying and metal ores	243	15%
3		Food products	226	14%
4		Waste related products	216	13%
5		Glass, cement and other non-metallic mineral products	117	7%



**76%**

of inter-modal journeys involving HGVs (90 million tonnes) began or ended at a shipping dock between 2021 Q3 and 2022 Q2



**23%**

of inter-modal journeys involving HGVs (27 million tonnes) began or ended at a rail siding/terminal between 2021 Q3 and 2022 Q2



**3%**

of inter-modal journeys involving HGVs (4 million tonnes) began or ended at an airport between 2021 Q3 and 2022 Q2

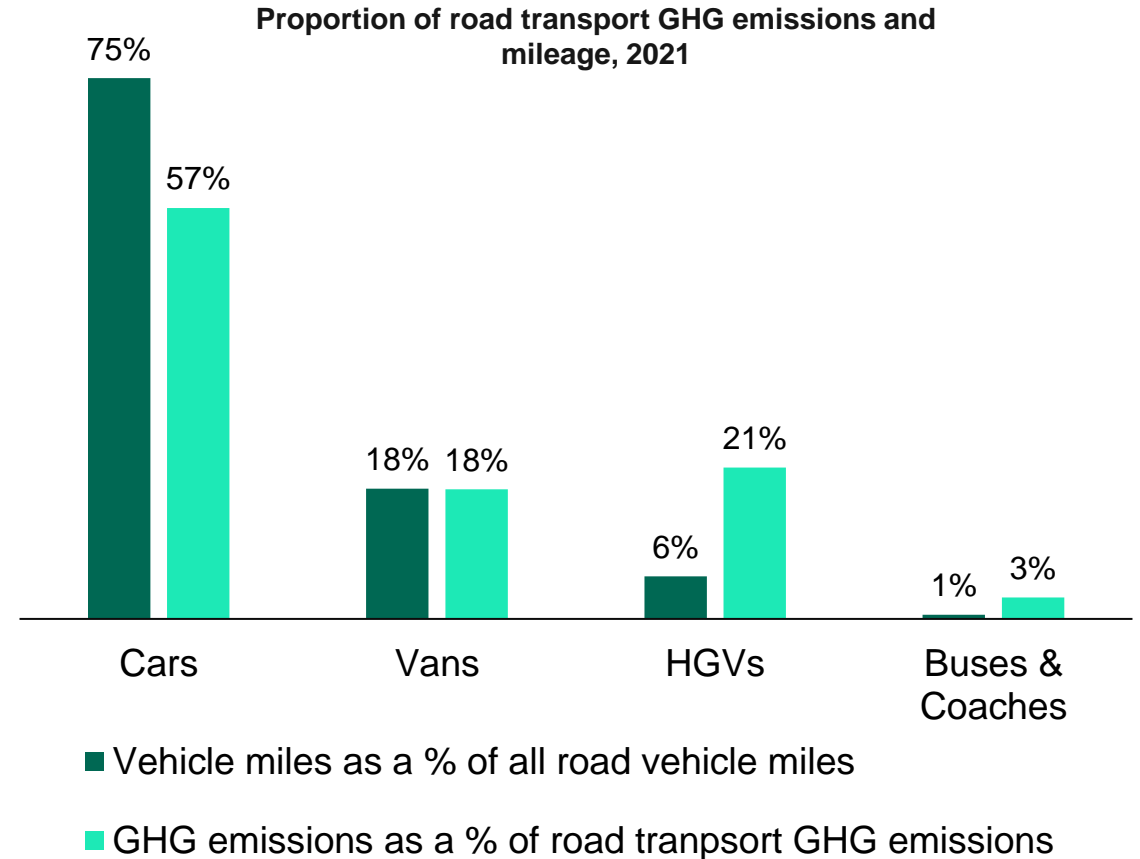


**2021 Q3 to  
2022 Q2**

5,884 million  
kilometres

# HGVs – what's the emissions problem?

- In 2021, heavy goods vehicles (HGVs) were responsible for **over a fifth (21%)** of UK domestic GHG road transport emissions, second only to cars and taxis (57%).
- In 2020, HGVs were responsible for 8% of NOx and 16% of PM10 air quality pollutants arising from domestic transport.





# Zero Emission Road Freight Demonstrator (ZERFD) Programme

# Zero Emission Road Freight Demonstrator (ZERFD)

## Objectives

ZERFD is a multi-year, on-road, mass scale zero emission HGV demonstrator programme which will:

- i. create an evidence base on which technology (or technology mix) is best suited to decarbonise UK's heaviest road freight vehicles (40-44t trucks) based on real-world operating performance in UK fleets
- ii. grow confidence in the sector to encourage long-term investment planning and decision making
- iii. provide an understanding of the future infrastructure needs and approach to deployment
- iv. support the transition to a fully zero emission fleet of HGVs in the UK
- v. identify potential standards and regulation which may present barriers to the uptake of zero emission HGVs



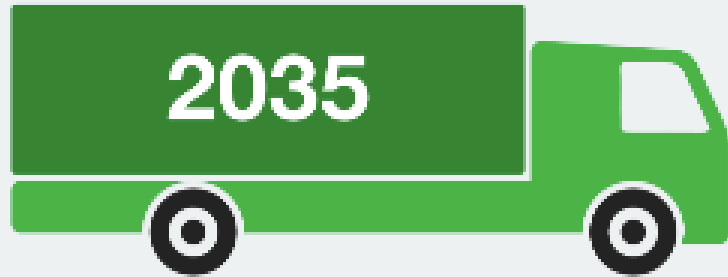
### Battery Electric

### Hydrogen Fuel Cell



**What progress  
has already been  
made?**

# We have made the decision to phase out the sale of new, non-zero emission HGVs...



**HGVs (above 3.5t and up to and including 26t)** End the sale of new non-zero emission HGVs in this category **by 2035**, or earlier if a faster transition seems feasible\*

**HGVs (above 26t)**  
End the sale of all new non-zero emission HGVs **by 2040**, or earlier if a faster transition seems feasible\*



# ...and issued a Call for Evidence on exemptions.

**Call for evidence on exemptions to the 2035 phase-out date for the sale of new non-zero emission HGVs 26 tonnes and under**

## These vehicles may:

- carry heavy or abnormal loads
- have an additional power draw
- spend most of their time operating in specialist or remote areas
- be used in long-haul applications

# We're also working to reduce emissions from the existing fleet...

## Freight Portal



Helping freight operators reduce emissions and costs

Find out more about us →

energy saving trust

Department for Transport

Zemo Partnership  
Accelerating Transport to Zero Emissions

## Zero Emission and Alternatively Fuelled Vehicle Weight Increases

Statutory guidance

### Regulations to increase the weight limits for certain zero emission or alternatively fuelled vehicles

Draft regulations amending the Road Vehicles (Authorised Weights) Regulations 1998.

## Auxiliary Engine Research Project





**There is, of course, the international landscape...**

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# ... and the role of alternative fuels



# Plus Government support for the zero emission transition...

## Zero emission road freight demonstrations 2022

Guidance  
**Renewable Transport Fuel Obligation**

Guidance  
**Plug-in van and truck grant: eligibility and applications**

Guidance  
**Zero emission fleets: local authority toolkit**

How local authorities can switch to electric vehicles and help councils to meet net zero targets.

Press Release - 6 July 2021

**Freight Portal relaunched to provide greater support for operators to tackle carbon emissions and costs**

News story  
**£7 million tech fund to decarbonise freight and boost innovation**

**Hydrogen Transport Hub Demonstration, Tees Valley**



# So... what more is there to do?

