

*Cleaner, greener, faster:  
The role of mass transit*

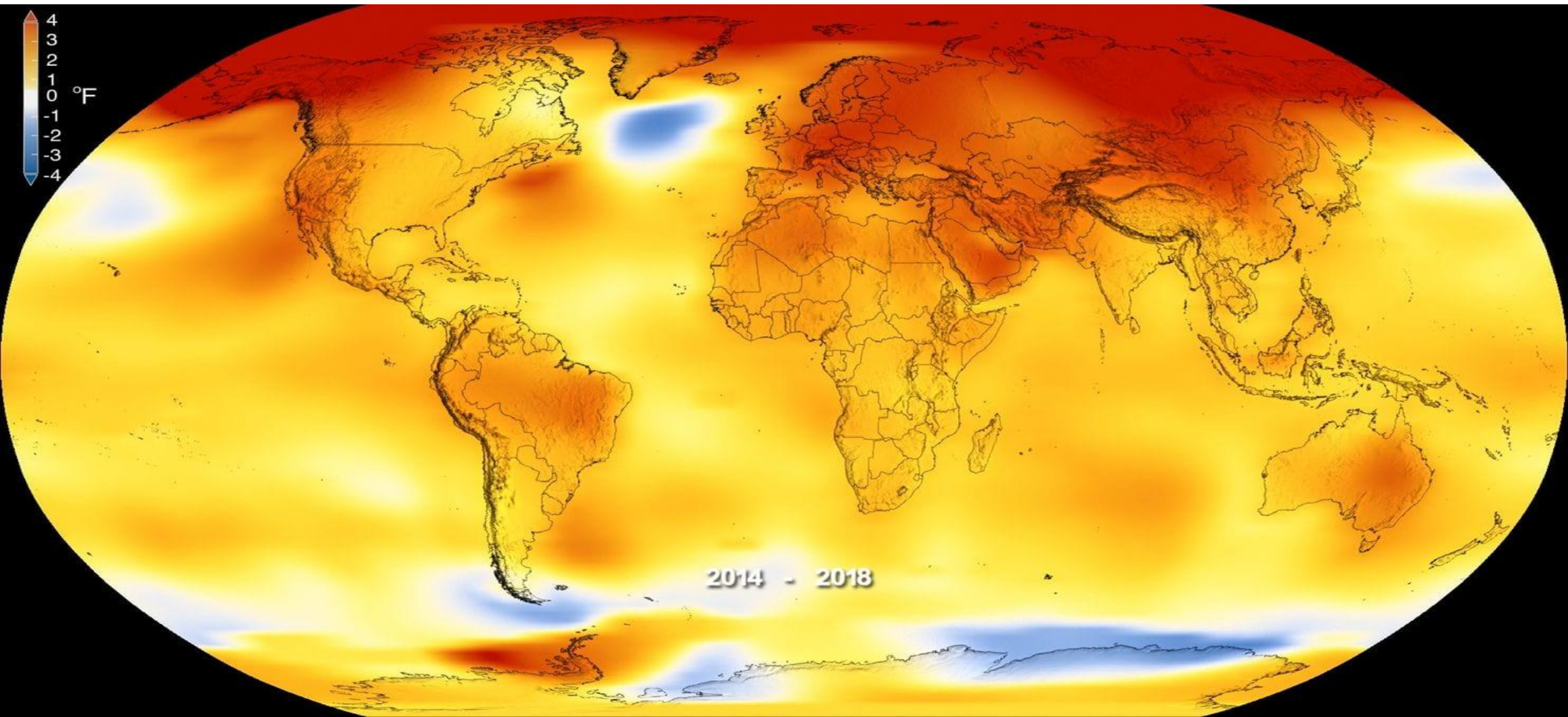
**Claire Haigh, CEO Greener Journeys**

Midlands Transport Summit 2019

# *Why do we need cleaner, greener, faster mass transit?*

- To tackle climate change
- To improve air quality
- To reduce congestion

# Five warmest years since 2010

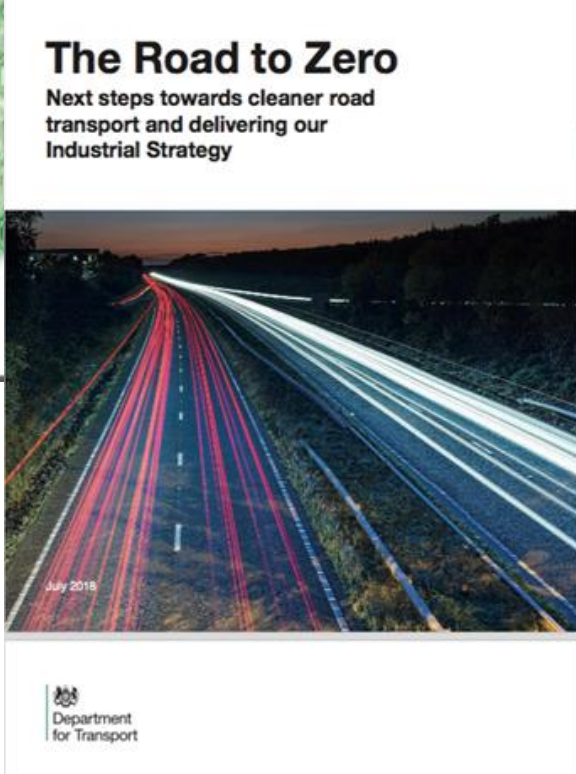
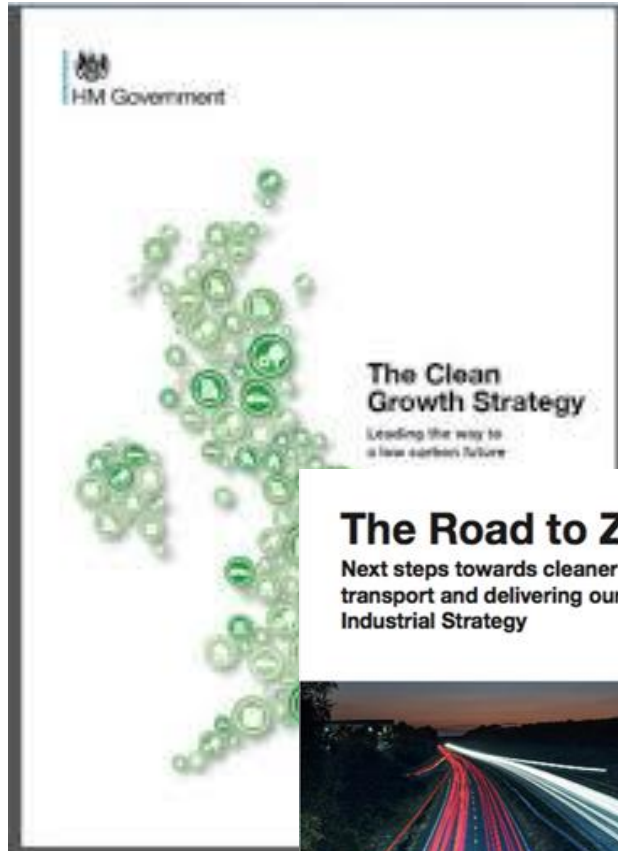


**40,000-50,000 early deaths every year in UK  
caused by air pollution**



# Congestion forecast to cost UK economy £21bn per year by 2030





# *Road transport leading contributor to UK GHG emissions and air pollution*

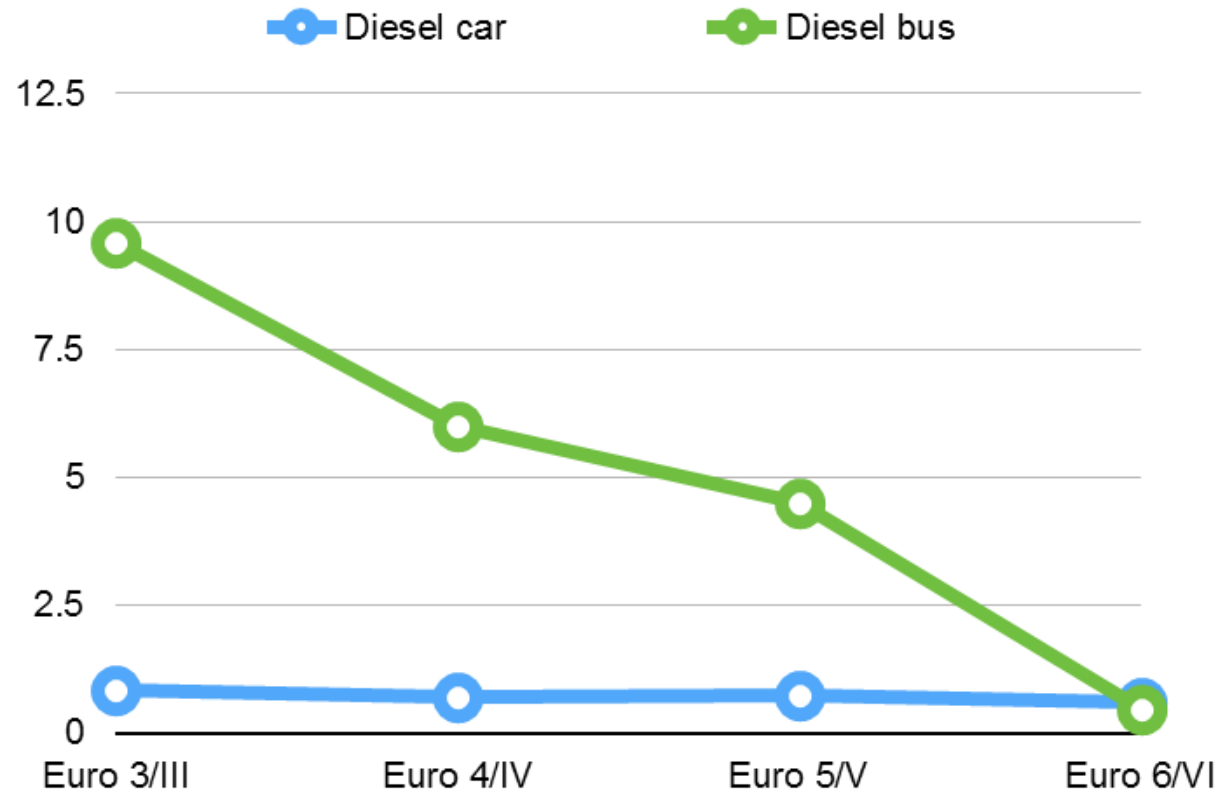
- **Transport highest emitting sector – road transport 90% of transport GHG emissions**
- **2018 new car emissions rose for first time since 2000**
- **Road transport constitutes 80% of nitrogen oxides concentrations at roadside**

# *Cleaner, greener buses are delivering on air quality and climate challenges*

- **7,000 Low Carbon Emissions Buses in Great Britain**
- **Buses leading the way on road to zero – 4.2% of new buses registered zero emission at the tailpipe in 2018, compared with 0.7% pure battery electric cars**
- **Euro VI bus emits 95% less NOx than Euro V**

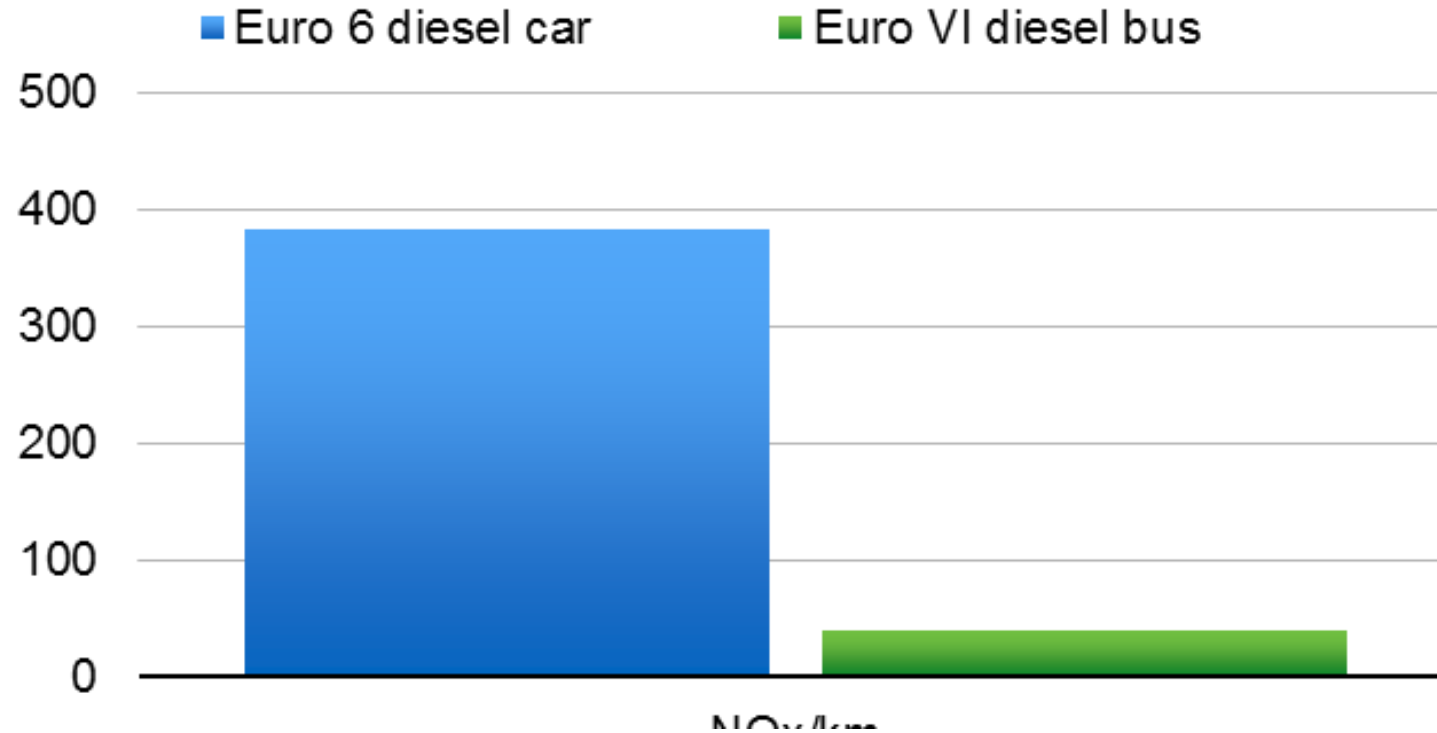


# Progress in clean bus technology has outstripped progress in car technology



***NOx emissions at 25 kmph for urban driving per vehicle***

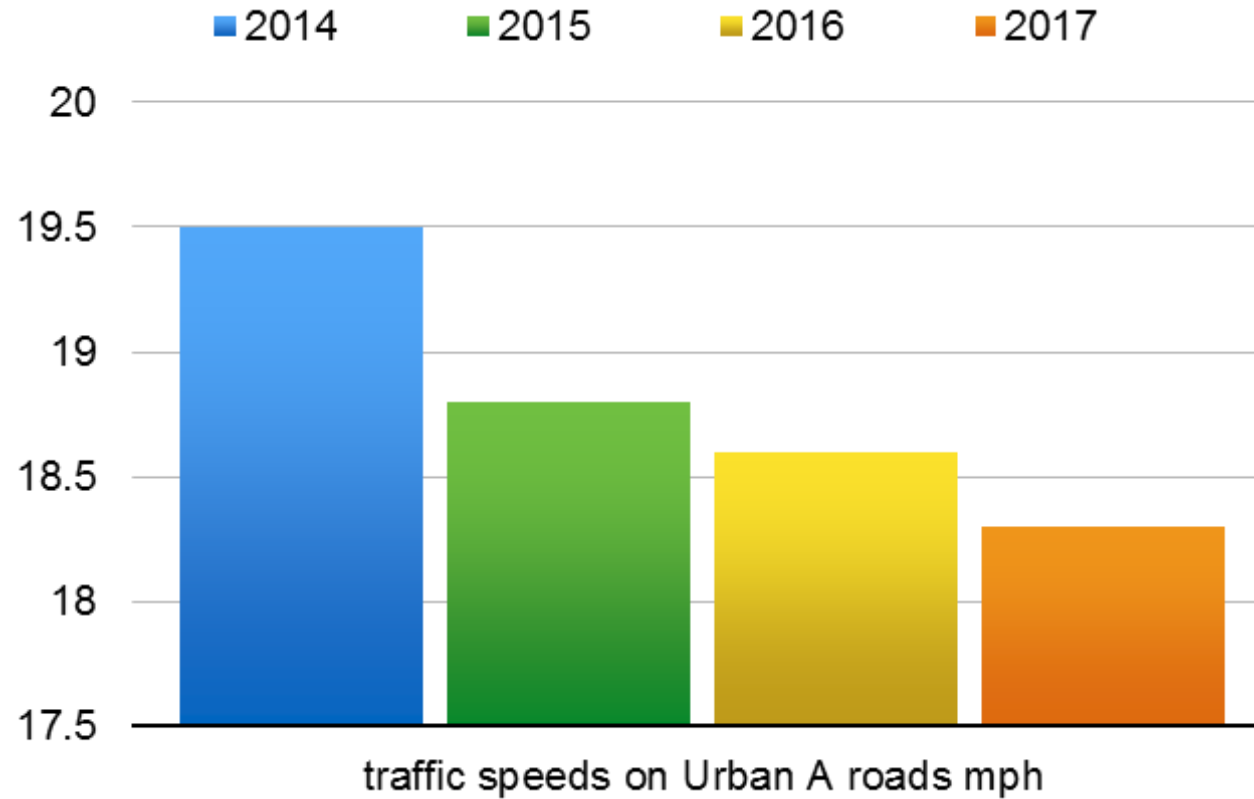
**A Euro 6 diesel car emits 10 times more NOx per passenger/km than a Euro VI diesel bus**



# *Congestion must be tackled if we are to reduce emissions*

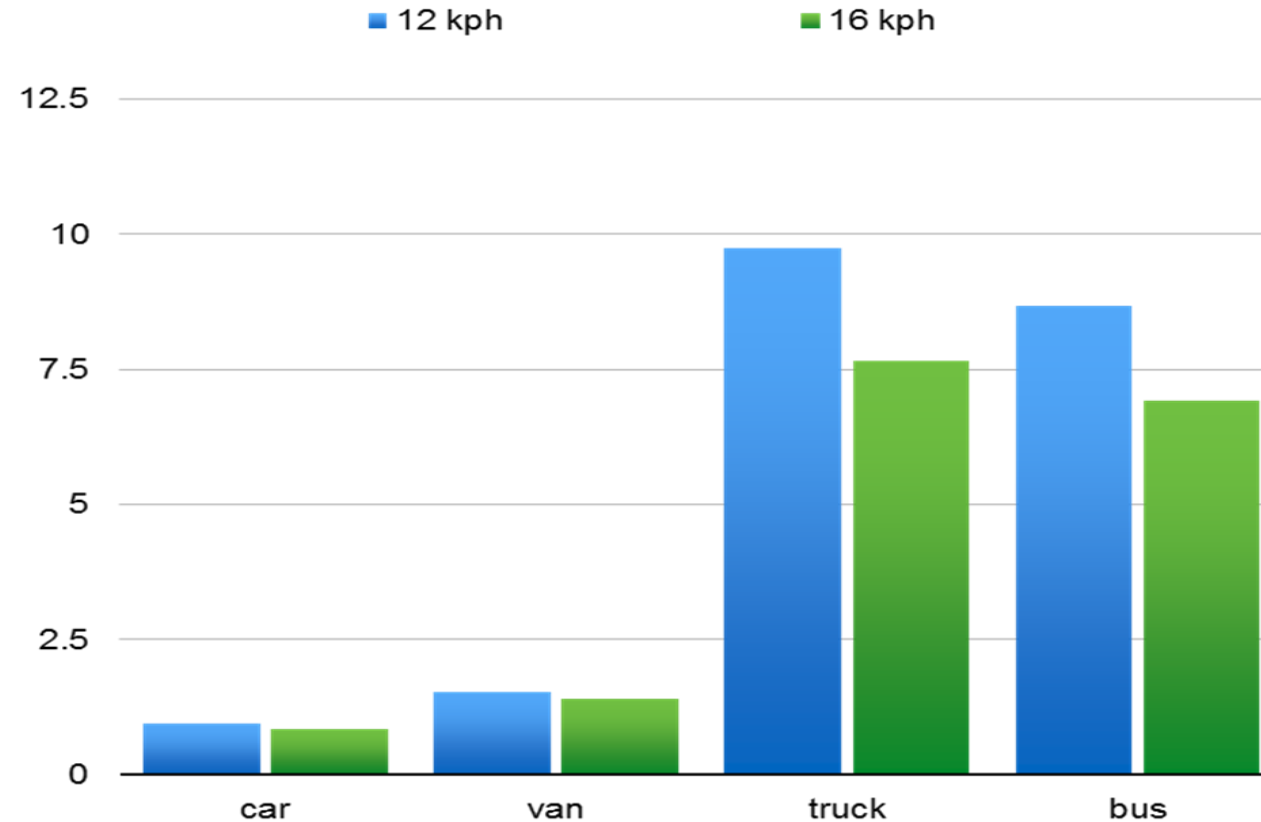
- In nose to tail traffic tailpipe emissions are four times greater than in free flow traffic
- Halving average city traffic speeds leads to a 50% increase in NOx emissions from larger vehicles
- A fully loaded bus can take 75 cars off the road

# Average traffic speeds are falling in our towns and cities



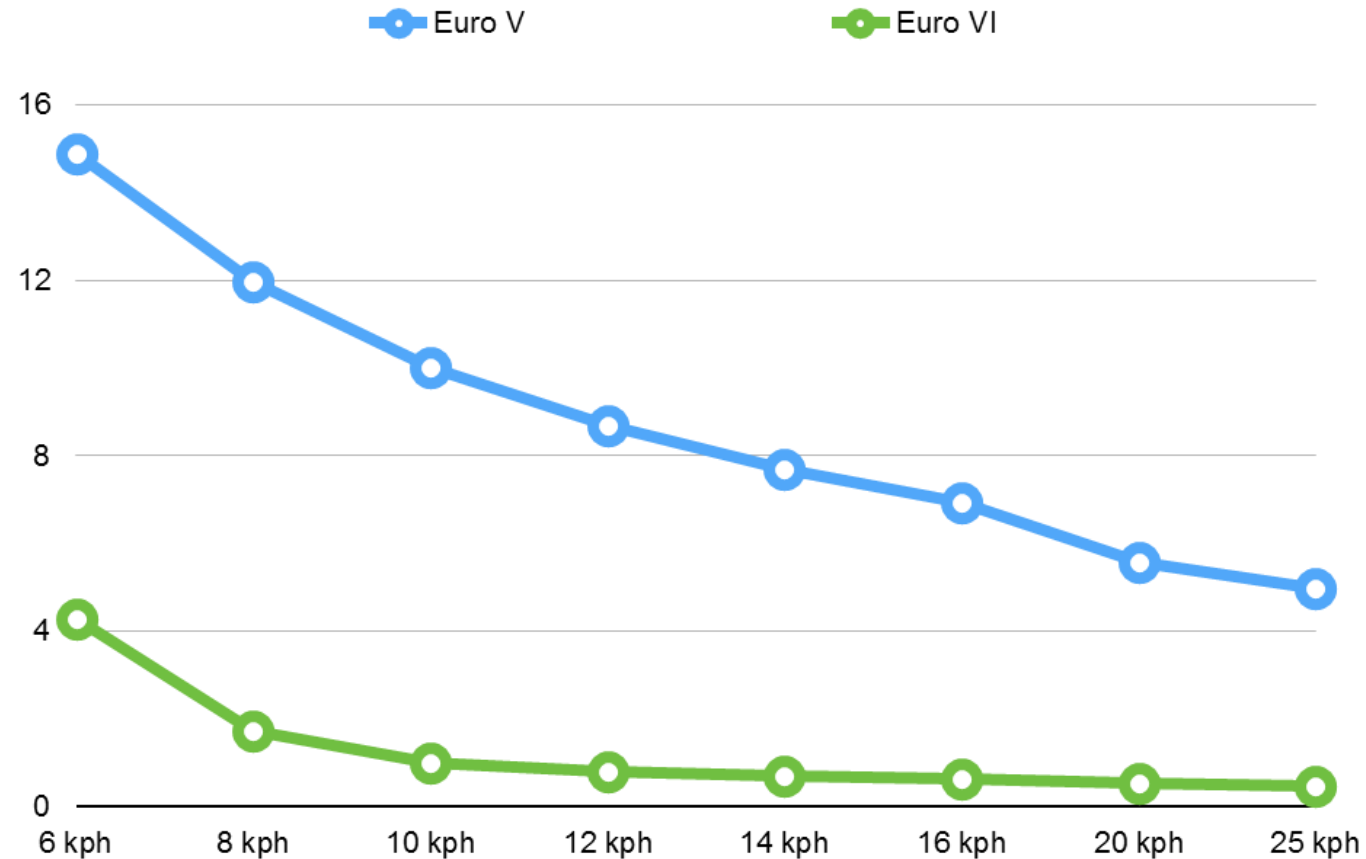
***Urban A Roads average traffic speeds (mph)***

# Falling traffic speeds causes emissions to rise across all vehicle types



*NOx g/km from Euro 5/V diesel vehicles for speeds of 12 kmph and 16 kmph*

# Huge reductions in emissions can be achieved by improving bus speeds



***NOx g/km at different speeds for Euro V and Euro VI buses***

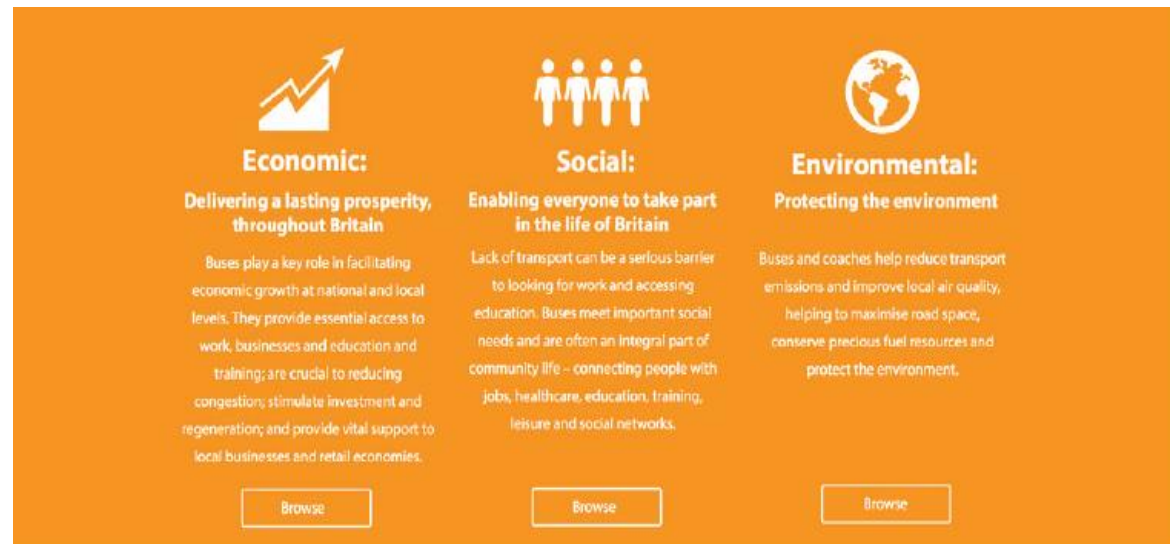
# *Mass transit also delivers significant social and economic benefits*


- 10% improvement in bus service connectivity delivers 3.6% reduction in social deprivation
- Investment in bus infrastructure can deliver £8 wider economic benefit for every £1 spent
- 80% of urban buses sold in the UK built in UK compared with 13% new cars
- 400,000 bus commuters in more productive jobs as a result of bus
- Bus vital role in tackling loneliness and creating more cohesive society


# *We must maximise role of mass transit: national bus investment strategy*


- 1. Protect bus revenue funding**
- 2. Deliver step change in funding for local transport**
- 3. Increase investment in local bus infrastructure**
- 4. Modal switch from car to sustainable transport**
- 5. Embrace demand management**



A dark orange rectangular block containing three columns of text. Each column has an icon at the top: a line graph for Economic, three people for Social, and a globe for Environmental. Below each icon is a bold heading, a sub-heading, a paragraph of text, and a "Browse" button.

  
**Economic:**  
**Delivering a lasting prosperity, throughout Britain**  
Buses play a key role in facilitating economic growth at national and local levels. They provide essential access to work, businesses and education and training; are crucial to reducing congestion; stimulate investment and regeneration; and provide vital support to local businesses and retail economies.

  
**Social:**  
**Enabling everyone to take part in the life of Britain**  
Lack of transport can be a serious barrier to looking for work and accessing education. Buses meet important social needs and are often an integral part of community life - connecting people with jobs, healthcare, education, training, leisure and social networks.

  
**Environmental:**  
**Protecting the environment**  
Buses and coaches help reduce transport emissions and improve local air quality, helping to maximise road space, conserve precious fuel resources and protect the environment.

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