national express

Progress towards a Zero Emission Future

Manchester Airport Transport Forum

John Boughton

Commercial Director, National Express



A weakening resolve to achieve net zero....?



When it seems the world is telling us something else.....

World breaches key 1.5C warming mark for record number of days

07/10/23



By Matt McGrath, Mark Poynting, Becky Dale & Jana Tauschinski BBC News climate & science and data journalism team

The world is breaching a key warming threshold at a rate that has scientists concerned, a BBC analysis has found.

On about a third of days in 2023, the average global temperature was at least 1.5C higher than pre-industrial levels.

Climate change: Pope Francis warns world 'may be nearing breaking point'

⊕ 5 days ago

Climate change

05/10/23



By Aleem Maqbool & Harry Farley

Religion editor, BBC News

Pope Francis has warned the world is "collapsing" due to climate change and may be "nearing breaking point".

The pope criticised global decision-making bodies for being ineffective, as well as calling out climate deniers.

September 2023 was world's hottest September on record by 'extraordinary' margin, new data confirms, with scientists blaming not only climate change

The latest of many heat records broken this year is putting the world on course for its nottest year ever, and is a sign of what is to come in future, according to scientists.



(3) Friday & October 2028 08:89, UK





September saw climate protests across the globe with activists taking to the streets in the likes of Spain India USA and Indonesia

With further challenges in congestion..

- Traffic congestion is resurgent post Covid
- Manchester comes third in UK cities suffering the most congestion
- Costing this city £175m per annum

Rank (2021 Rank)	Urban Area	2022 Delay (2021)	Compared to Pre-COVID	Cost per Driver	Cost per City	Downtown Speed (last mile, MPH)
1(1)	London	156 (148)	5%	£1,377	\$5.7bn	10
2 (3)	Bristol	91 (66)	-12%	£805	£175mn	14
3 (6)	Manchester	84 (66)	-9%	£742	£191mn	14
4 (8)	Birmingham	73 (53)	-9%	£646	£346mn	16
5 (7)	Belfast	72 (53)	-36%	£636	£102mn	16
6 (9)	Nottingham	71 (58)	-9%	£625	£97mn	14
7 (21)	Edinburgh	67 (45)	-32%	£593	£150mn	16
8 (10)	Hull	68 (56)	-9%	£604	£74mn	16
9 (13)	Leeds	60 (50)	-9%	£503	£196mn	16
10 (12)	Leicester	62 (53)	-15%	£551	£92mn	16

Source: Inrix 2023





And Air Quality..

Nine UK Areas Breach Legal Pollution Limits as Manchester Tops League

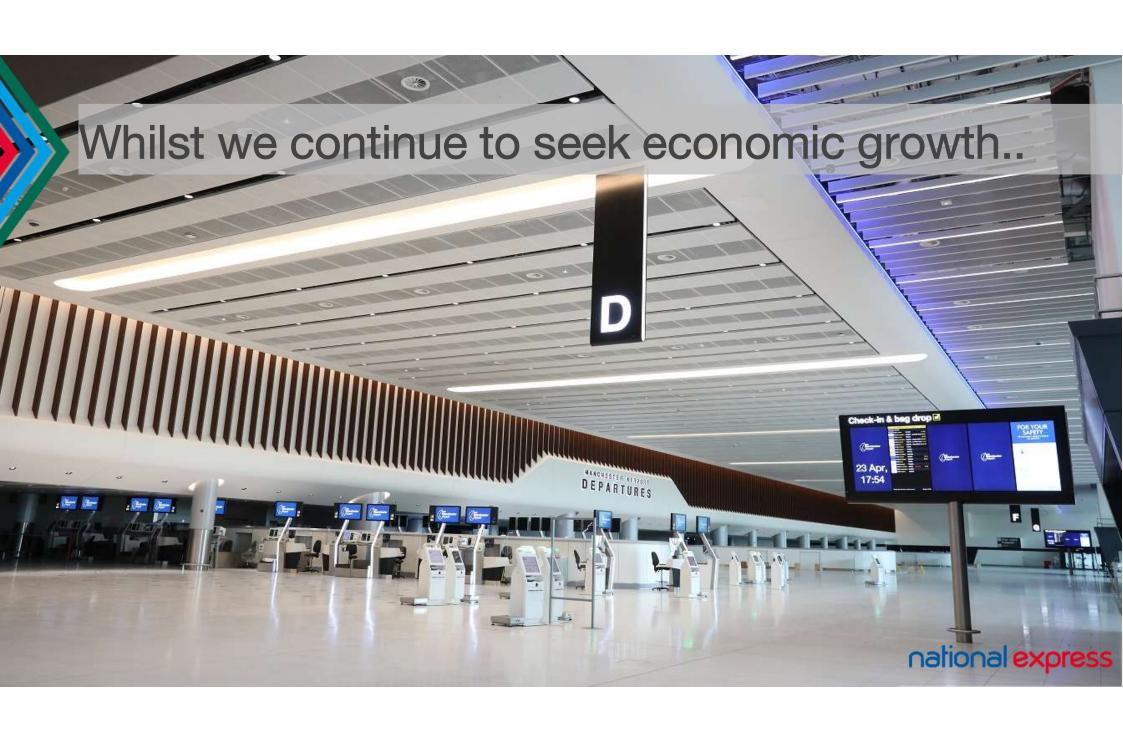
Campaigners say the most polluting vehicles must be taken off the roads to save lives

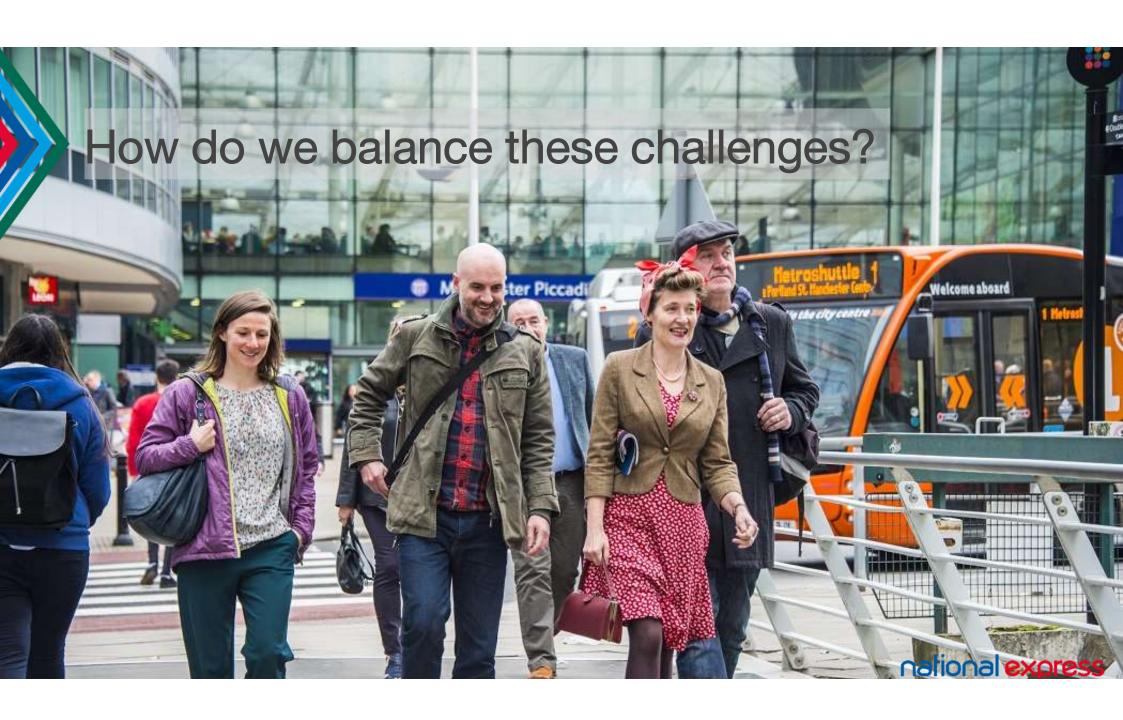
Josiah Mortimer 23 October 2023

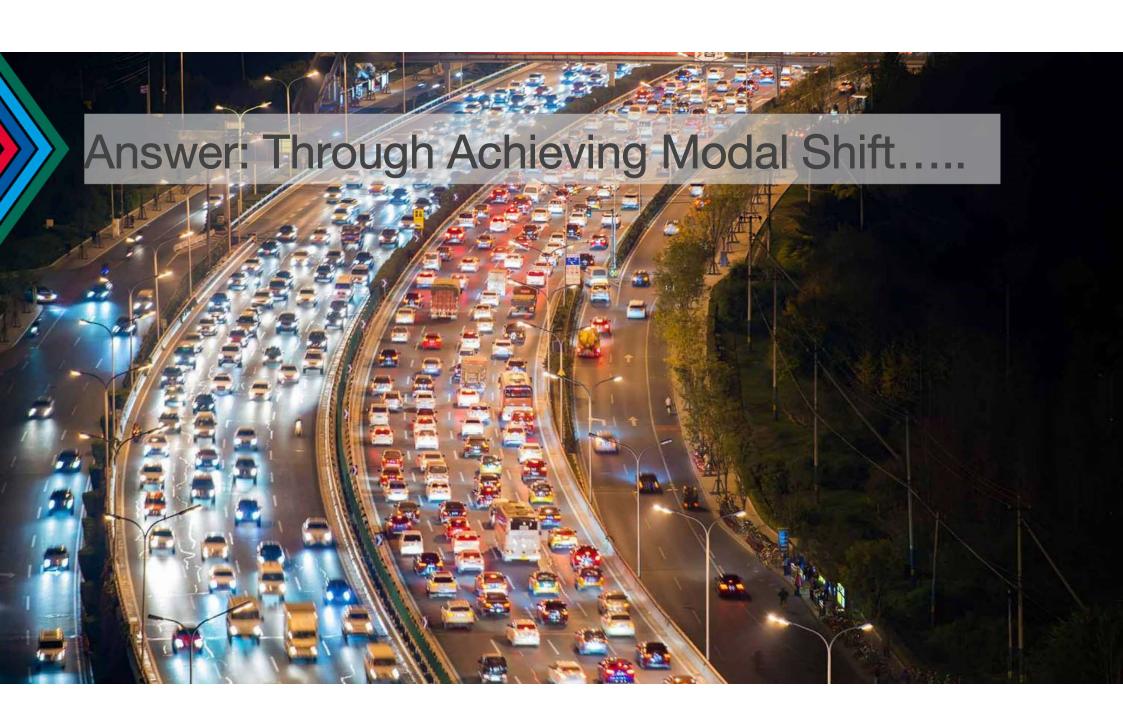


Greater Manchester Labour Mayor Andy Burnham has scrapped plans to charge the most polluting vehicles. London's Labour Mayor Sadiq Khan has gone the other way. Photo: Jacob King/PA





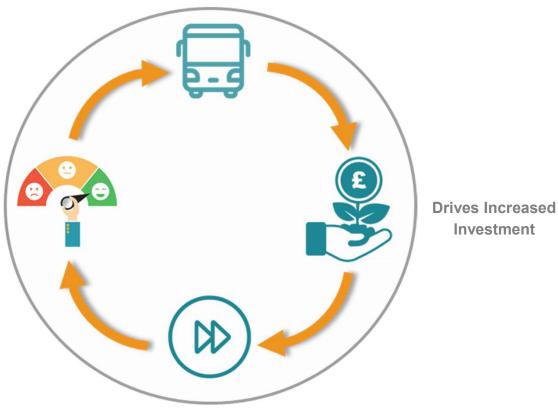




Get people out of cars

and we drive.....

Drives improved customer experience



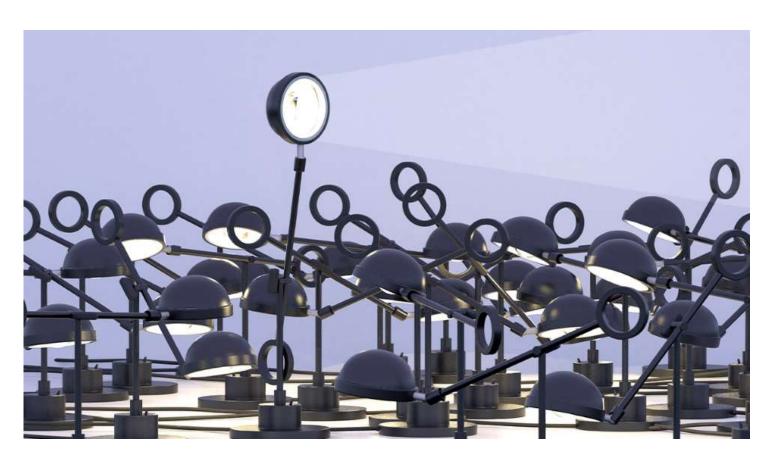
Increased Public Transport Usage

Drives Increased Convenience, Speed & Reliability



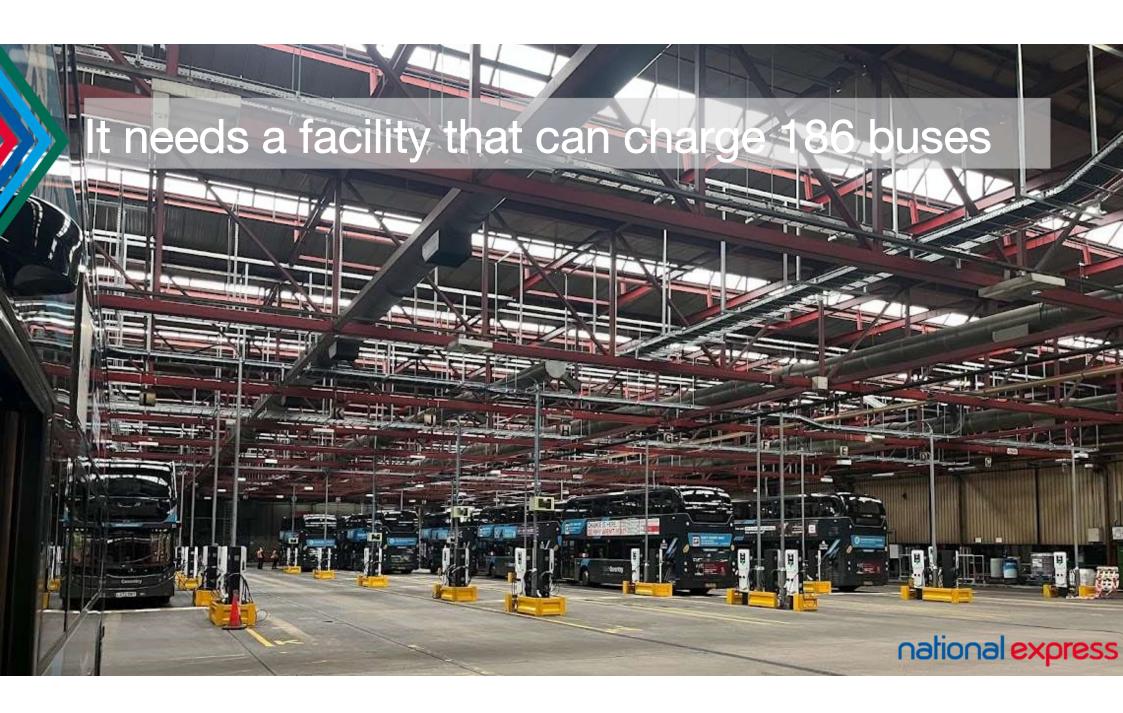
Because it takes....

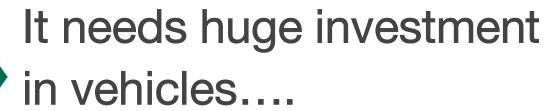
- Vision
- Collaboration
- Resolve
- Resources







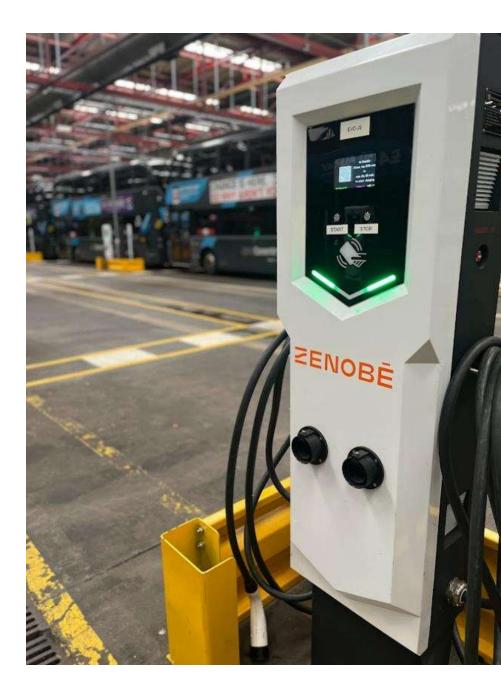








And it needs collaboration..

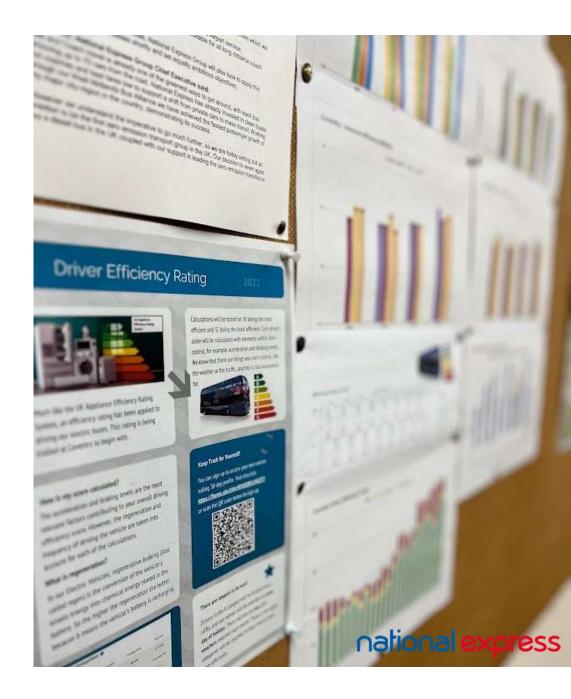




And it needs serious attention to detail..

- Each driver is rated A to E for efficiency (like a fridge)
- Our driver training programme increases vehicle range by 400,000km a year in Coventry
- Our smooth driving reduces
 Drivecam events by 75%







But the result?

- Reduced emissions in the city
 saves 11,000 tonnes of carbon annually
- A much improved customer experience which has driven patronage up 4 to 6%
- Which starts the virtuous circle of congestion reduction.....
- Which maybe is the start of a big change in behaviour.





And what's next - Coach





- We run almost 10,000
 journeys per week across
 the UK with 50% of those
 travelling to or from an
 airport
- At our busiest airports we carry 12% of air pax in and out, reducing congestion and emissions.
- Removing the equivalent of 3,500 car journeys per day at e.g. STN



We want to push towards zero emission, starting with EV

- Coach development has been hampered by viability issues
 - Range
 - Capacity
- But In February 2024 we trial a triaxle, high capacity Yutong coach
- Capable of carrying >50 pax and a range of 250km
- Potentially viable for shorter routes and in service from 2025







Whilst continuing to push towards H₂

- Our current manufacturer, Caetano will release their first Hydrogen coach in 2024
- Range of 1,000km makes this viable as a long distance inter-city option
- Tri-axle version capable of carrying >50 pax to be released in 2025/2026, with vehicles expected to be in service from 2027



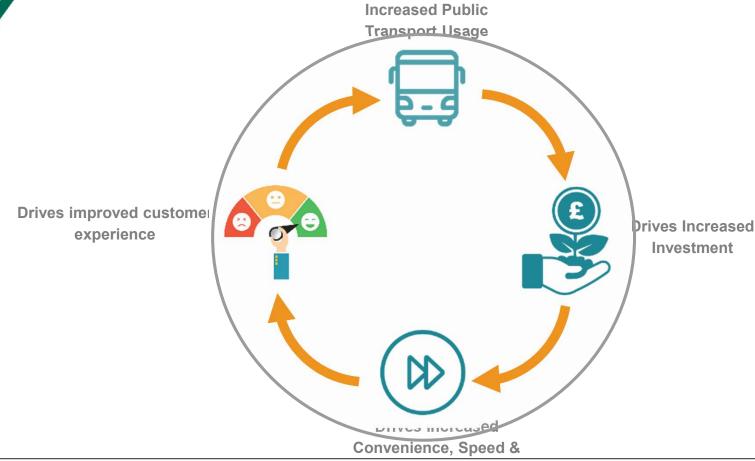


Vision, collaboration, resolve, resources

Thank you



Get people out of cars and we drive......



Reliability

