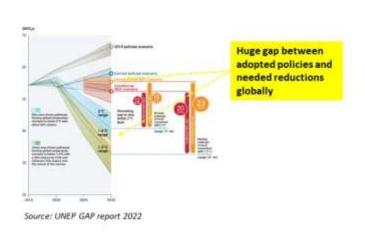
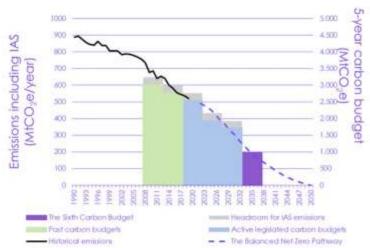


#### Climate Crisis



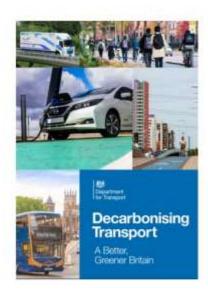


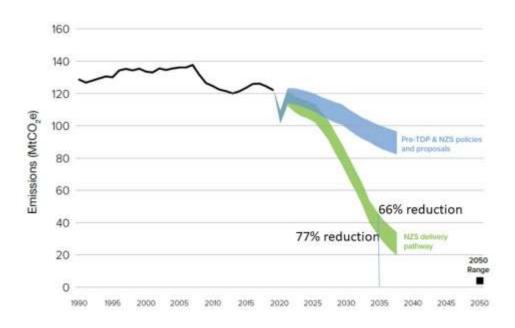
78% reduction from 1990 levels by 2035

63% reduction from 2019 levels by 2035



#### **National Sectoral Strategies**

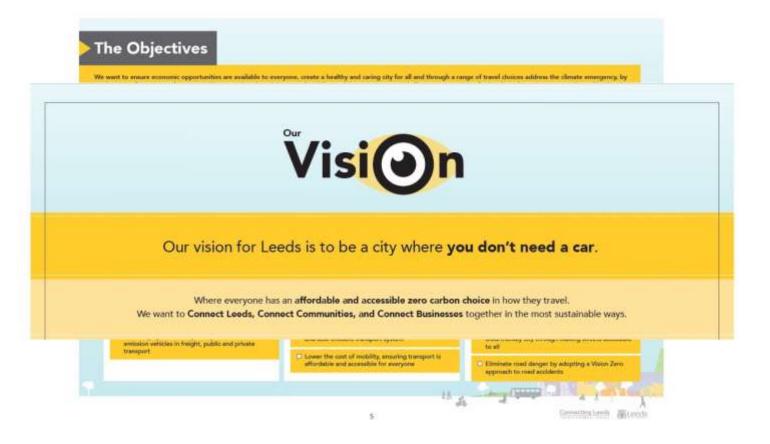




Deployment assumptions	Unit	2019	2025	2030	2035
ZEVs as a percentage of total car fleet	%	0.3%	6%	24%	53%
ZEVs as a percentage of total van fleet	%	0.2%	2%	14%	40%
ZEVs as a percentage of total HGV fleet	%	0%	0%	9%	37%
ZEVs as a percentage of total bus and coach fleet	%	0.3%	9%	25%	48%
Single track kilometres electrified per year	Km	0	350	650	650
Low carbon fuels a used in road transport as a percentage of total fuel use (in litres)	%	5%	7%	8%	8%
Journeys in towns and cities that are cycled and walk as a percentage of total journeys in towns and cities	%	42%	46%	50%	55%
SAF use in domestic aviation as a percentage of total fuel use (in tonnes)	%	0%	1%	3%	6%
Low carbon fuels <sup>a</sup> use in domestic shipping as a percentage of total fuel use (in TWh)	2%	0%	0%	1%	42%

## Study after study shows the scale of car USE reduction required even with the most optimistic uptake of EVs (Prof. Jillian Anable)

	Percentage reduction	In	Ву	Relative to
CREDS (2021) – Positive Low Energy Demand Futures study	30-50%	Total car mileage	2030	2020
Green Alliance (2021) – Not Going the Extra Mile report	20-30%	Total car mileage	2030	2019
Scottish Government (2021) target (based on modelling by Element Energy)	20%	Total car mileage	2030	2019
Welsh Government (2021) Net Wales Carbon Budget 2	10%	Per capita car mileage	2030	2019
Bristol City Council (2019) Bristol Net Zero by 2030: the evidence base	~50%	Total car mileage	2030	2018
London Pathways to Net Zero Carbon (2022)	12-27%	Total car mileage	2030	2018



#### Local Leadership - National Vacuum

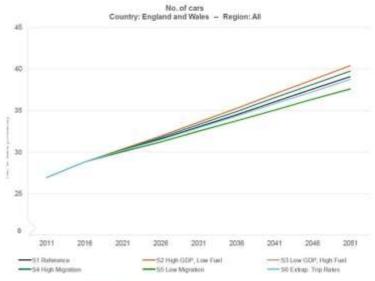
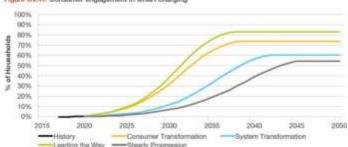


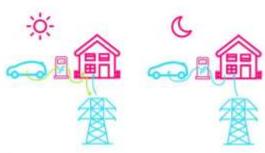
Figure 22: Car Ownership Forecast (NATCOP)

#### Electrification reinforcing automobility



Figure CV.41: Consumer engagement in smart charging





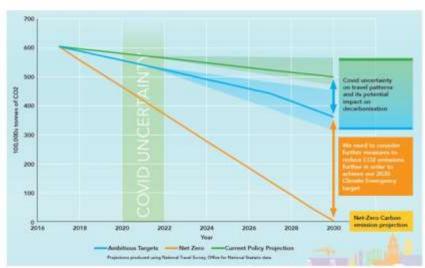
entrackenth (Silvando





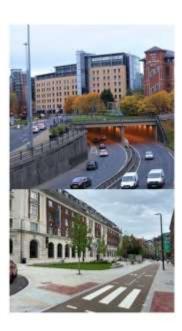
#### Vision from Leeds City Council





#### Reality on ground





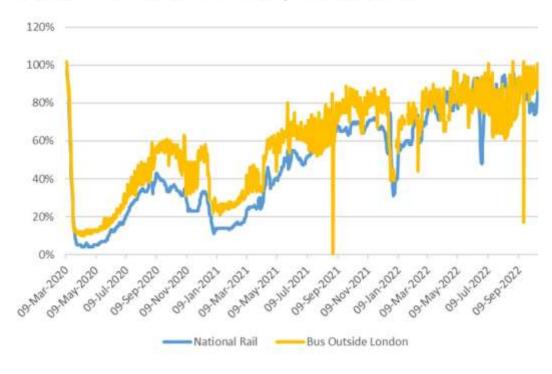


#### Reality on ground





#### Post-Covid Recovery Realities



- Rail use around 80% of prepandemic
- Bus Use around 90% (but beware metrics)

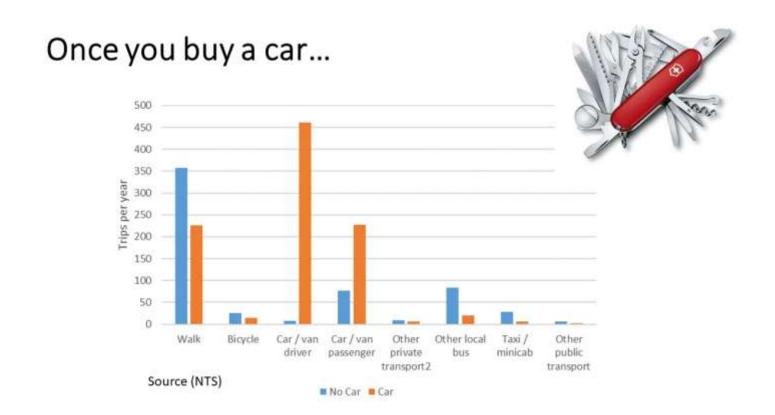
# <u>Just</u> doing more will not be enough

### Leeds will also need to do something different

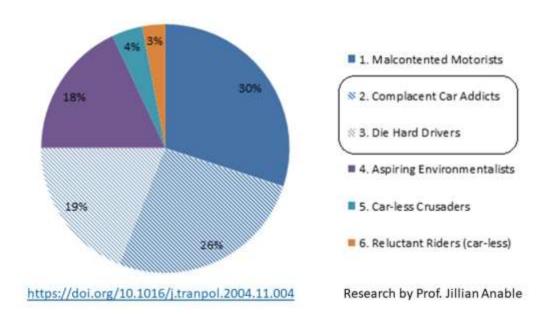


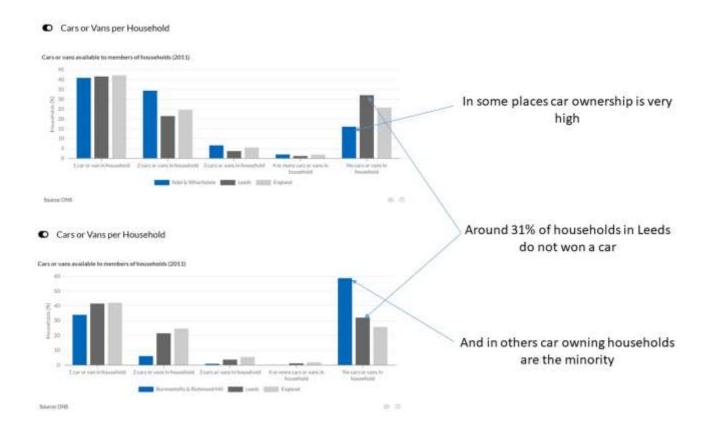
#### Cars in context

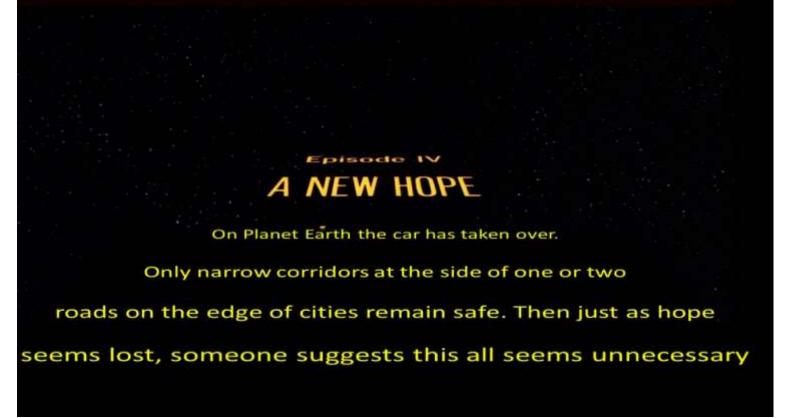




#### Some people really love cars (a minority)







#### Huge redundancy

- · Stationary 95% of the day
- 33% of cars do not move on any given day
- 14% of cars is the maximum of the fleet on the move in the peak

of all car trips have a lone driver

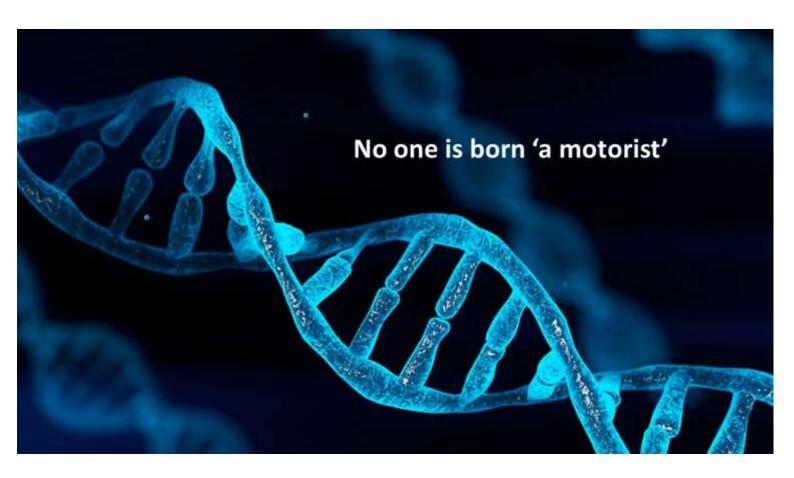
1.55 occupied seats per car

36 million
empty seats during the morning commute

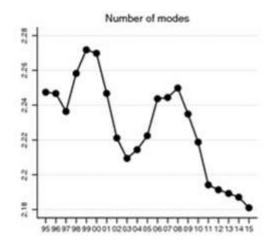
1.2 occupied seats per car

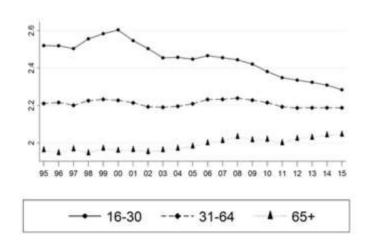
https://www.eceee.org/library/conference\_proceedings/eceee\_Summer\_Studies/2019/6-transport-and-mobility/a-week-in-the-life-of-a-car-a-nuanced-view-of-possible-ey-charging-regimes/2019/6-272-19\_Mattioli\_Presentation.pdf/

https://www.creds.ac.uk/publications/where-now-where-next/



#### Everyone is multi-modal





https://link.springer.com/article/10.1007/s11116-017-9810-2

#### 'No motorists' is one vision of innovators



#### And there are lots of new options

- E-mobility
- · Shared access to vehicles







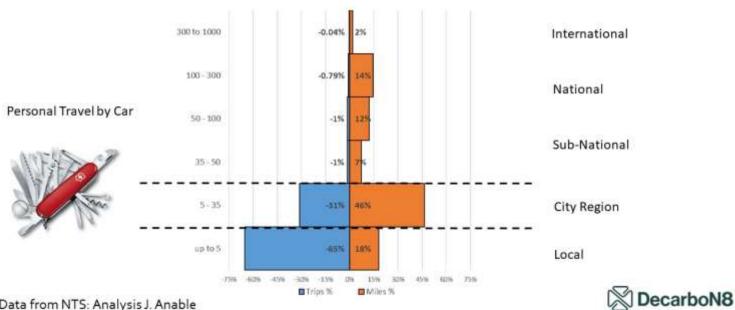






#### Scale as opportunity





Data from NTS: Analysis J. Anable



How do we create positive visions where many more people can imagine living without OWNING a car?



#### At what scale should we think/act?

 Closed Loop Peer to Peer Car Sharing in Iffley Oxford (Emma Kerr & Hiyacar)



## Why is this something Leeds CC needs to be doing?

- · Have to move fast
- · Can't expect market to deliver
- · New 'bargain' with citizens and businesses
- · Will require further change from national government
- · Social, economic, industrial and environmental opportunity

## But – you can't change system of automobility just by adding things to it











#### To Own or To Access - That is the Question



