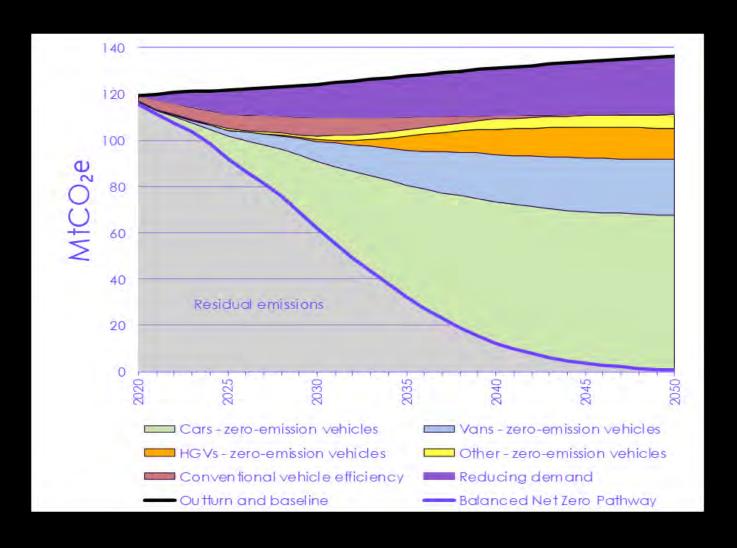
DecarboN8 Behind the curve? Decarbonising Mobility in a Hurry

Northern Evidence Academic Forum

Professor Greg Marsden University of Leeds



The carbon challenge for transport



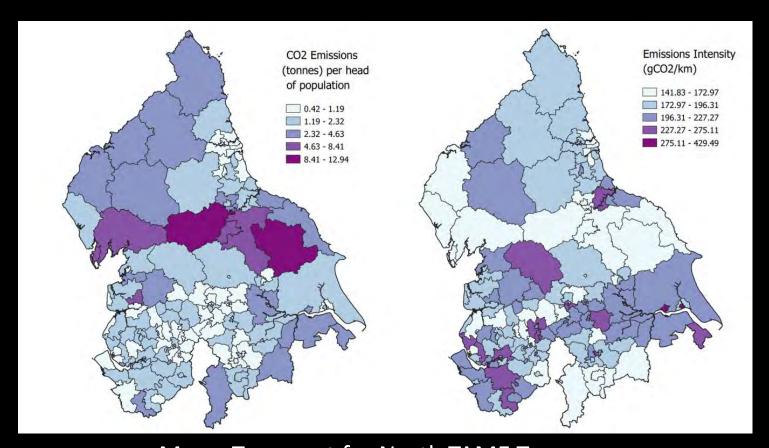
4% reduction in last 30 years

4% to 14% per annum reduction requirements

30% of cuts to 2030 demand reduction

38% electrification

Behind the curve (1)



Start points can differ by a factor of 5 to 10

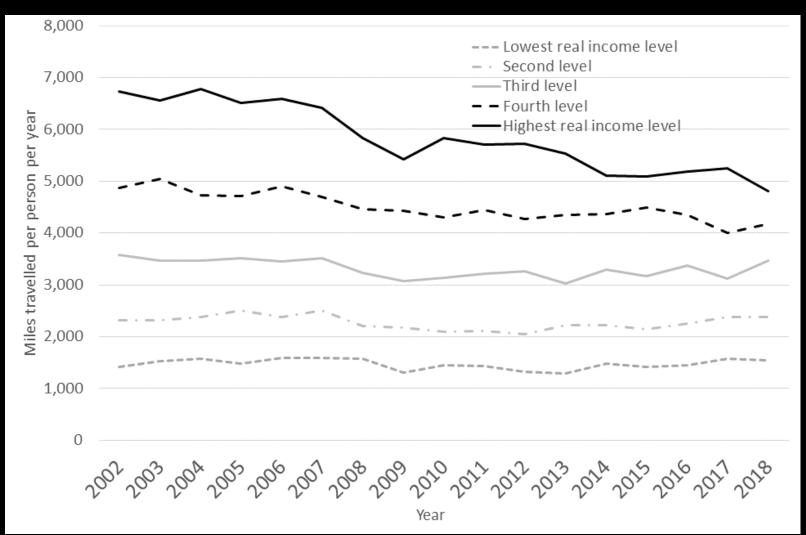
Even between similar types of places can be ±40%

Different opportunities

Maps: Transport for North TAME Team
Analysis: Walker (2020) <u>DecarboN8 Working Paper 2.1</u>



Behind the curve (2)



UK Data
Miles/person by car

-29%

-12%

-3%

3%

9%

Behind the curve (3)









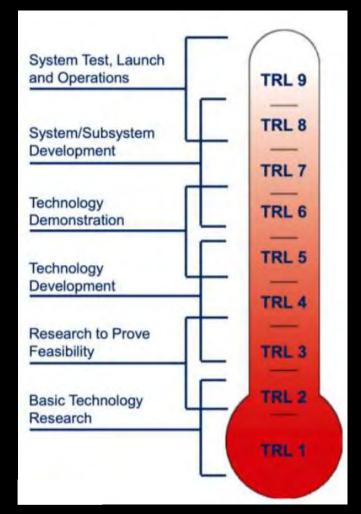
Terraced houses: 51% on-street parking Half of these "inadequate"

Up to 45% of private rented accommodation in some areas

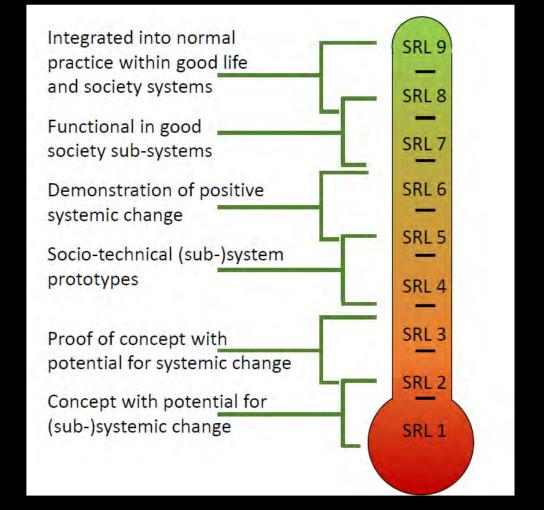


From Technology to Societal Readiness Lancaster University - Monika

Lancaster University – Monika Büscher and Nicola Spurling







E-Cargo Bikes

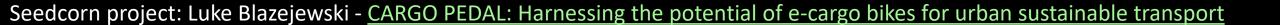


<u>Diverse Use Cases</u>:
Waste recycling, surplus food,
Universities, catering,
hospitals

Opportunities:
Corporate Consolidation
Community-led

Challenges:

Familiarity, start-up costs, risk assessment, infrastructure



Working across the North



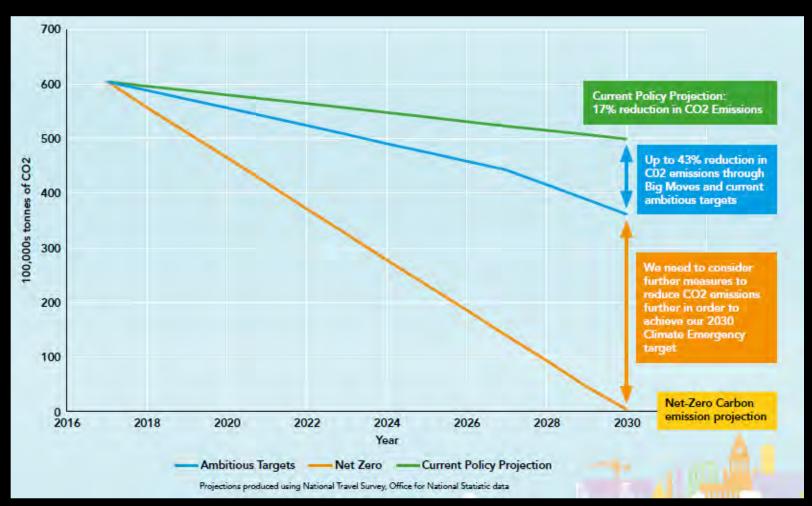




Details on all of our seedcorn projects here: https://decarbon8.org.uk/de carbon8-research-projects/

Where next?





The Best of Business as Usual is Not Enough

More radical change needs to be built with people and places

Connecting Leeds Draft Transport Strategy

How can research help?



Topics

- Need to understand how commute and work is changing
- Understand the implications of Covid-19 for shared mobility
- Goods movements and servicing more difficult so high priority
- Long-distance trips, rural areas

Processes

- Use cases (e.g. tourism), experimentation, learning
- Co-design with diverse groups
- Community-led as well as "system"

Concluding Remarks



- We are not decarbonising in a hurry
- We are behind the curve(s)
- To get anywhere close we need to start thinking about decarbonising whether, when, how and how much we move not just the technologies we use
- Strategic analysis remains important joining up
- Need new co-designed approaches to understand how to effect radical change
- We wont find this in papers or reports or on the ground we have never tried to do anything like this before anything like as fast.

Questions



Resources

- Getting carbon ambition right
- The role of buses
- Accelerating the uptake of electric vehicles
- Climate smart parking policies
- The role of land use, localisation and accessibility
- Travelling less and the role of online opportunities
- Growing cycle use
- UK sales of new petrol and diesel cars and vans will end in 2030 what does the science say?
- Place-based Decarbonisation video series

Join the DecarboN8 network by subscribing to our mailing list