

# Transport in a climate emergency

## Keeping emissions low after Covid-19

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## About Us

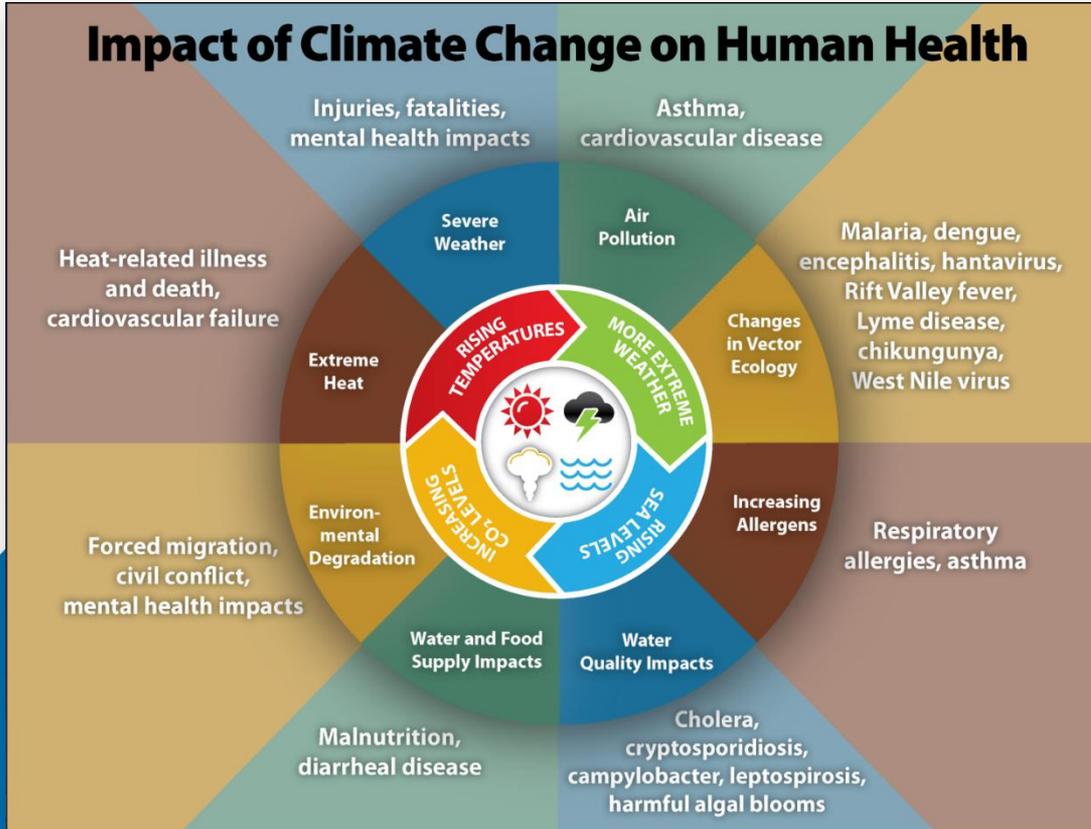
Established 2005 as UK's first Centre of Excellence for Low Carbon & Fuel Cell Technologies

Research Technology Organisation delivering Consultancy and R&D projects to accelerate transition to net-zero emissions in transport and energy systems

Work with public and private sector clients, delivering multi-year programmes and shorter-term consultancy projects



# Climate Emergency

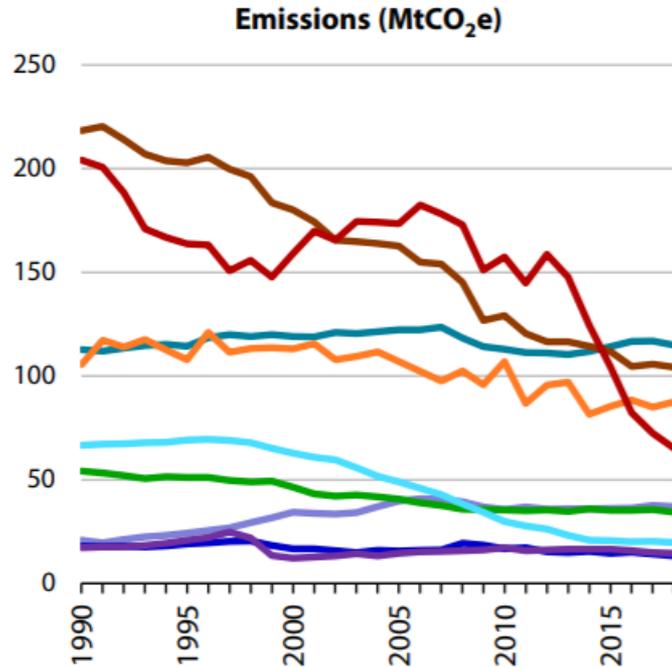


## Climate death by 2030 - WHO

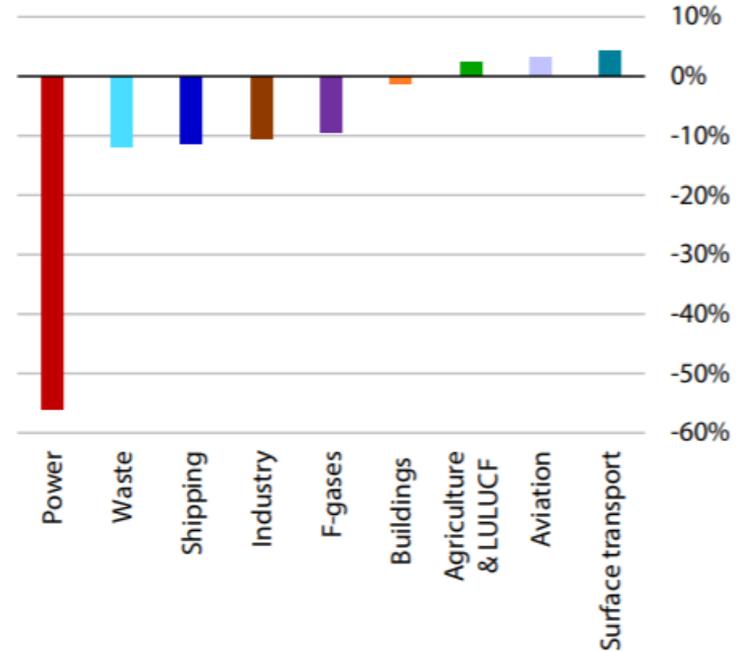
- 250,000 Disease
- 7,000,000 Air Pollution
- +? Extreme weather

As well as economic impact of \$2-4 Billion

# Transport 26% of UK emissions and increasing



**Change in emissions 2013-2018**



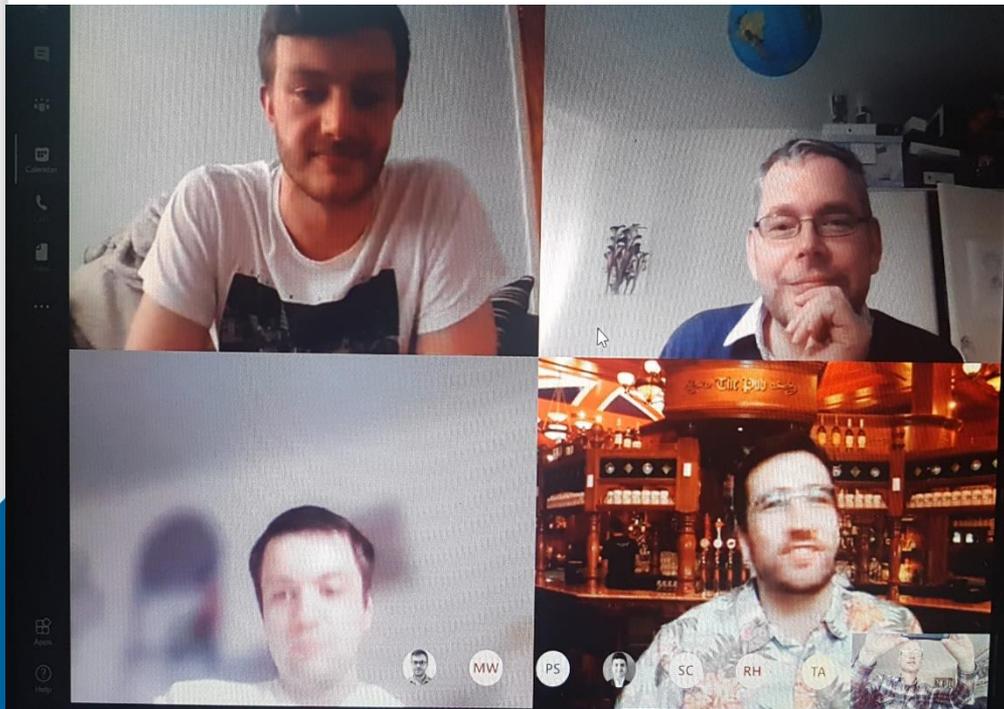
**Source:** BEIS (2019) 2018 UK Greenhouse Gas Emissions, Provisional Figures; BEIS (2019) 2017 UK Greenhouse Gas Emissions, Final Figures; CCC calculations.



# Himalaya Mountains visible for first time in 30 years



# Home working and online shopping








## UK & International Video Link Services

Bridging | ISDN | IP | Room Finder | Skype

# Home working – less commuting and business travel



## Social and environmental impact

- Heating versus travel
- Social isolation
- Better work life balance

## Employer

- Safe working
- Mental wellbeing
- Zero emission energy?
- Less office space
- Travel savings

# Public transport and shared mobility



**SOCIAL DISTANCING**  
**THIS SEAT AREA**  
**IS NOT IN USE**  
← →  
**KEEP 2 METRES AWAY**

- Fear of proximity on public transport
- Less flying
- More car use .... but less pool car use?
- More cycling
- Shared mobility?



# Death of the High Street?



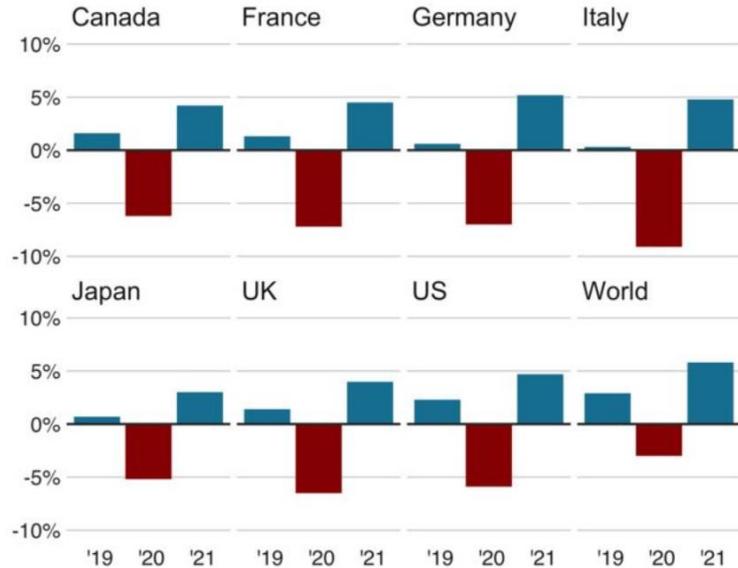
- More vans
- More micro deliveries
- Less choice
- Autonomy
- Consolidation?



# The economic challenge

## All major advanced economies will be in recession this year

National annual GDP



Source: International Monetary Fund

BBC

- Cheap oil
- Growth at any cost
- Green new deal?
  - Zero emission mobility?

**EveningStandard.**  
WEBSITE OF THE YEAR

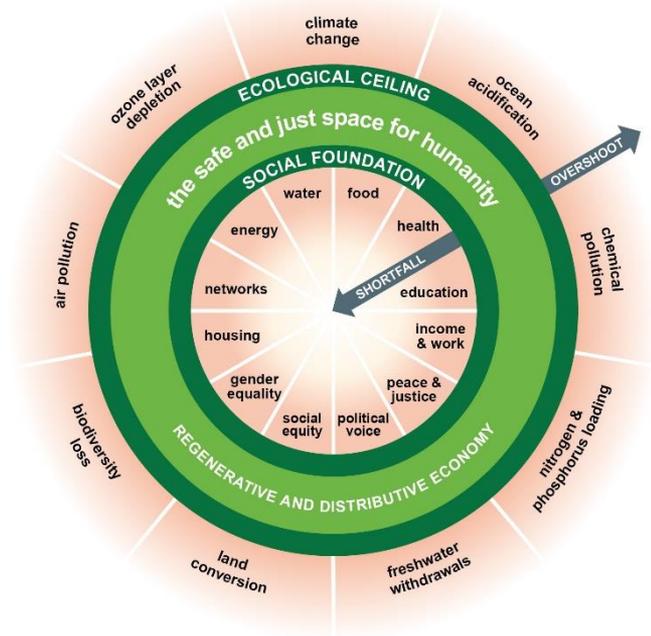
**The Reader: Green New Deal could avert a new depression**

**Forbes**

South Korea Embraces EU-Style  
Green Deal For COVID-19  
Recovery

# Re-think economics

- Growth is not exponential
- Focus on wellbeing not GDP
- Tax resource use and accumulated wealth not people
- Stop tax havens and avoidance
- Reduce working week
- Introduce universal basic income
- Invest in public services



Doughnut Economics – Kate Raworth

# Climate Emergency – Transport Actions for 2020

## Local Govt

- Don't relax targets for clean air or CO<sub>2</sub>
- Invest in public transport and fibre
- Focus on two wheel travel
- Repurpose empty offices and shops
- Consolidate deliveries

## All business

- Plan now and invest to save - £ & CO<sub>2</sub>
- Rethink working week
- Prioritise home working and teleconf.



# What can local government do?

## Regulation

- Nottingham – Work Place Parking Levy
- London – Congestion charge/ULEZ
- Nottingham – procurement - electric taxis
- Solihull – EV car club
- Parking – Birmingham

## Planning

- SW Councils - Charging points as planning condition
- Bristol – Charging destination hubs

## Vehicles

- Dundee – EV fleet and taxis
- York – Electric tourist buses
- Leeds – own fleet – electric and gas
- Salford – Electric pool cars
- Nottingham – EV maintenance
- Derbyshire – Grey fleet

## Community

- Milton Keynes – EV showroom
- Nottingham – EV driver champions



Thank you for listening

Keith Budden

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If you wish to listen to the recording please contact us.