



Optimising air quality and health benefits associated with a low-emission transport and mobility revolution in the UK

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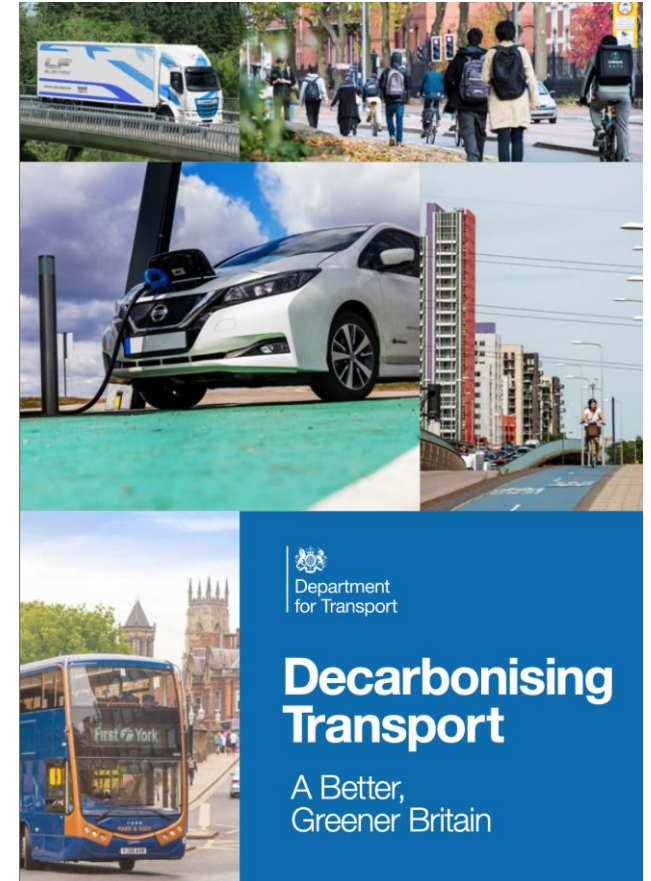
Dr Suzanne Bartington (Lead); **Dr James Levine** (Innovation Network Manager)



Policy Context

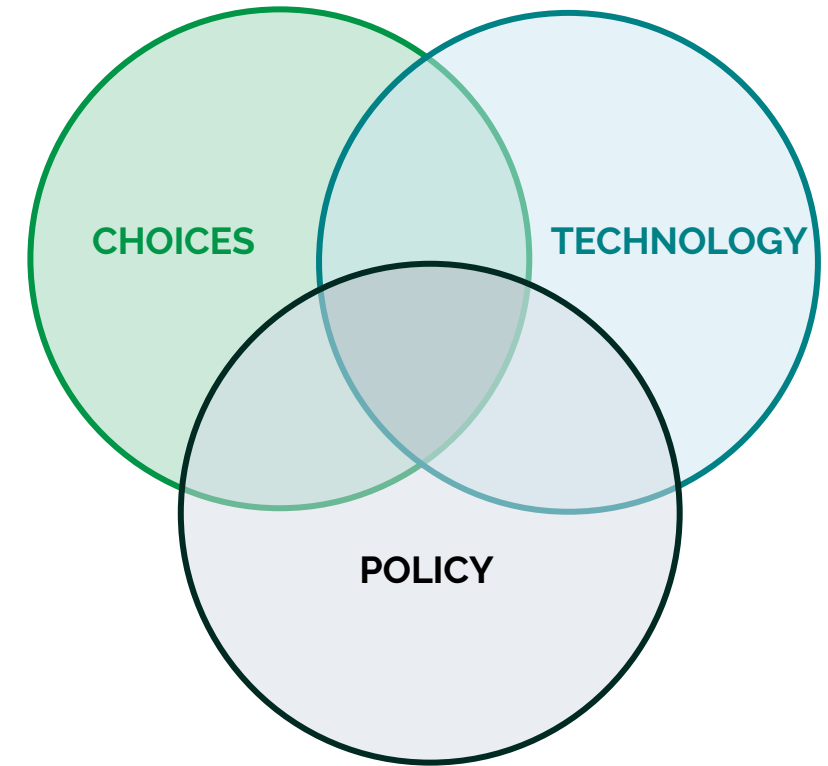
'Climate change is the most pressing environmental challenge of our time'

Rt Hon Grant Shapps MP
Secretary of State for Transport (DfT, 2020)



Key Questions

- *How will changes in mobility impact indoor and outdoor air quality?*
- *How do citizens adapt and respond (choices)?*
- *What research and innovation is required to deliver solutions (technology)?*
- *How can policymakers optimise the benefits and mitigate unintended consequences (policy)?*



Network Objectives

- Inform implementation of the **UK Government Clean Air strategy, Future of Mobility and Road to Zero strategies** and **Transport Decarbonisation Plan**
- **Mobilise and transfer existing knowledge** from the UK transport stakeholder community, Clean Air programme activities and policymakers
- **Establish a framework** for generating **new knowledge, tools and technologies** needed to achieve transformational change in UK land transport

Network Themes



CHARACTERISING EMERGING
AIR QUALITY CHALLENGES & RISKS



UNDERSTANDING **TRANSPORT**
CHOICES AND BEHAVIOURS



SUPPORTING INDUSTRY LED
RESEARCH AND INNOVATION



CO-CREATING A FRAMEWORK
FOR **POLICY SOLUTIONS**

Network Team

- University of Birmingham
Dr Suzanne Bartington, Dr James Levine,
Dr Stuart Hillmansen, Professor William Bloss,
Professor Francis Pope, Jennifer Knight

- University of Sheffield
Professor Martin Mayfield,
Dr Said Munir



- University of Bath
Professor Sam Akehurst



- Coventry University
Dr Huw Davies



- University of Surrey
Professor Nigel



- UCL Energy Institute
Dr Ian Hamilton



- Public Health England
Charlotte Landeg-Cox



- University of Oxford
Dr Felix Leach, Kayla Schulte



- University of Leeds
Dr Karl Ropkins



- University of York
Dr Sarah Moller



Network Partners



Network Activities



Network
Summit Events



Knowledge
Mobilisation
& Exchange



Challenges
& Solutions
Workshops



Public
Outreach
Activities



Discovery &
Innovation
Studies



Clean Air
Programme
Links (SPF)

Network Activities



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Identifying emerging indoor and outdoor air quality challenges and risks associated with transport decarbonisation

www.transition-air.org.uk/publications

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Network Apprentice role

Jason Taylor

Oxford City & Oxfordshire County Councils



Challenges
& Solutions
Workshops



Public
Outreach
Activities

UK-100 International Net Zero Local Leadership Climate Ambition Summit

Clean air policy session (July 2021)

Briefing note series (longlist)

- Exposure via different transport modes
- Barriers to active travel and modal shift
- Planning for clean air and public health
- Taxi licensing and implications for AQ and health
- Road and rail freight
- Priority non-exhaust emissions
- EV charging
- E-bikes and E-scooters
- Bus shelter design and placement
- Rail emissions
- Tram emissions



Discovery &
Innovation
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ANTICIPATE

Personal Transport:

The Covid-19-Carbon-Air Quality Trilemma

Exploring inter-dependencies and trade-offs via a *whole system approach*

PLANNING FORWARD WEBINAR SERIES



BREATHE FREE



Prof. William Bloss



David Milner



Dr Suzanne Bartington



Dr Gary Fuller

Planning White Paper: *How can we clean the air in Britain's towns and cities?*

<https://youtu.be/booFFaorsmo>
www.ukcleanair.org/category/blog

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Clean Air Day Webinars '20/21



Clean Air for All
- COVID-19, Clean Air and Mobility



What do we know about in-vehicle
air quality?

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6pm Tues 12th October
'An evening of online debate'



***Vehicle Microplastics - a Global
Challenge for People and the Planet***

UN Climate Change Conference (COP26)
Green Zone Exhibition Proposal
Hydrogen fuel cell technology

What do we know about in-vehicle
air quality?

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First round of D&I Fund (2021)

Dr Fiona Crawford | UWE

Characterising Changing Travel Patterns in the
COVID-19 Era

Nick Molden | Emissions Analytics Ltd

Measuring Exposure in Different Transport Modes

Gordon Allison | DustScan Ltd

Progressing Real-Time Source Identification

Jon Tivey | First Bus

Impact and Effects of Non-Exhaust Emissions on
Human Health and the Environment

Dr Fabrizio Bonatesta | OBU

Minimising Public Exposure at the Roadside

www.transition-air.org.uk/research

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Monthly 'networks catchup'

**Joint workshop with BioAirNet
planned for 18 Jan 2022**

**Second round of D&I Fund may
support jointly-funded projects**



Thank you

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