

ClairCity

Citizen-led air pollution reduction in cities



Our PARTNER CITIES:



UWE Bristol University of the West of England

With:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 692429



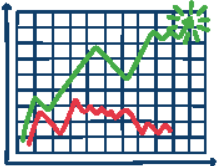
How the ClairCity process engages with a city & its citizens

Phase 1: Establish the Baseline Evidence

Benchmarking behaviour



Quantify the baseline



Assessment of policy



Phase 2: Citizen and Stakeholder Engagement & Co-creation of Scenarios

The GreenAnt app

City Events

Public engagement and awareness

Community films



Schools Engagement: My City, School, & Home

ClairCity Skylines Game

Mutual Learning Workshop

Citizen and Stakeholder Engagement & Co-creation of Scenarios

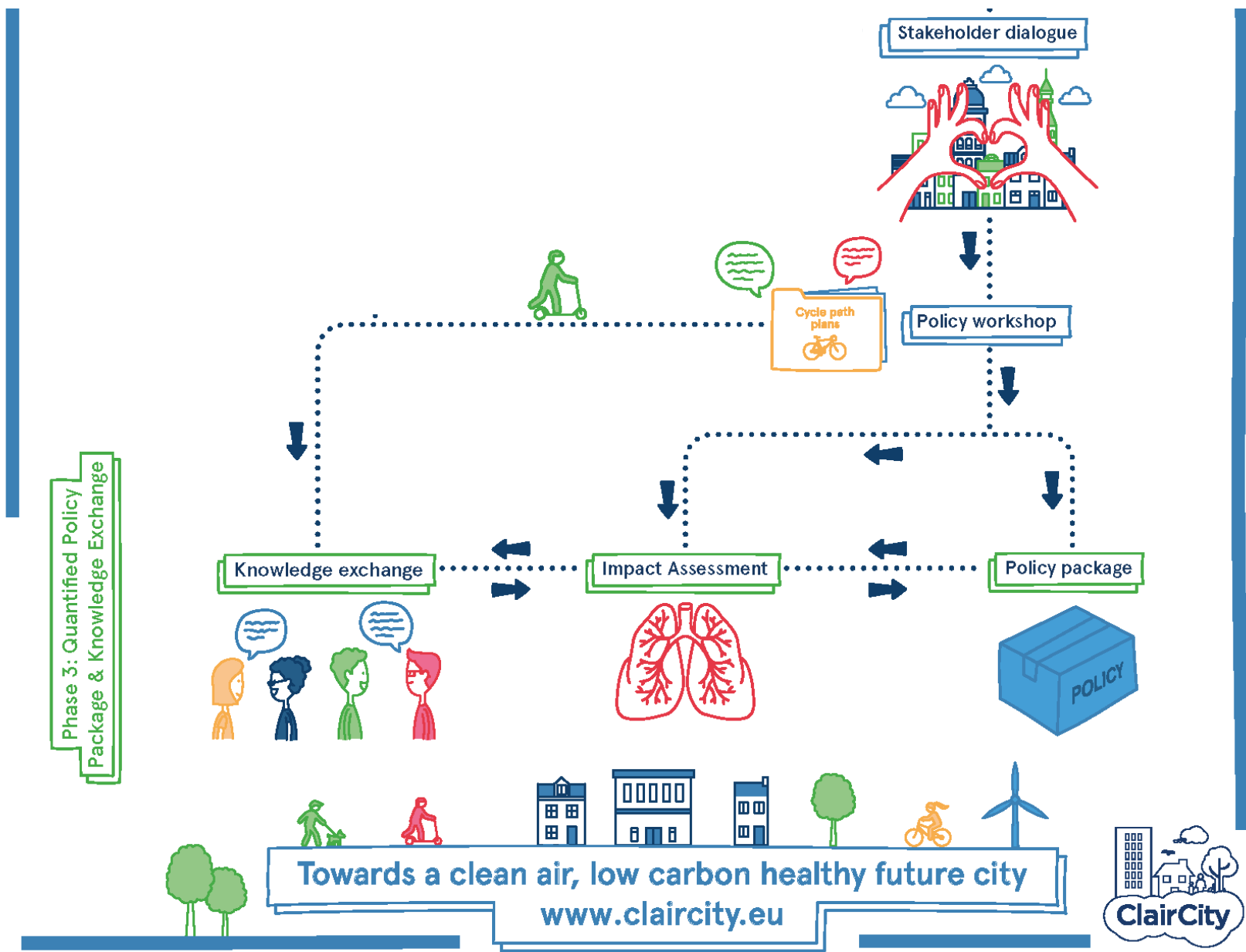
Delphi Method



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Towards a clean air, low carbon healthy future city
www.claircity.eu

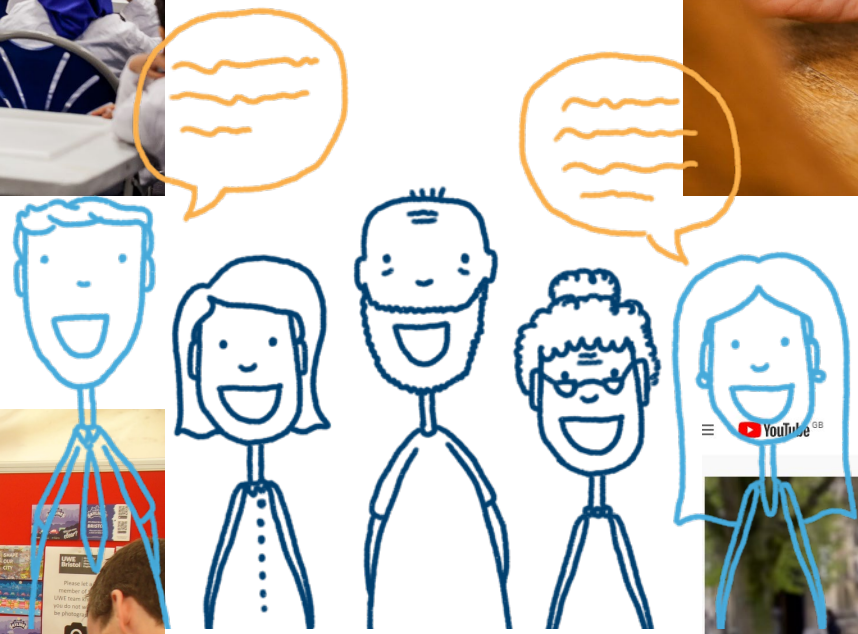




Schools engagement



App



City events



Community films

Sue on why walking helps her diabetes





City Hall



Bishopston



Brislington



Barton Hill

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“Unfortunately, I use my car...”

“Not enough public transport (train and bus) in terms of frequency and diversity. Current public transport are too expensive and I am living too far away from work to be able to cycle. I do want to change! Unfortunately it’s too challenging at the moment.”

(Female, BME, degree qualification)

“Have you tried going to the countryside with two kids but without a car? No cycle lanes, no acceptable buses at most places.” *[Male, white, degree qualification]*

COMMUTING	High polluting choice in future (conventional car only)	Low polluting choice in future (car and walk; walk and bus, EV, etc)
High polluting choice in present (conventional car only)	31 Entrenched	85 Looking for positive change
Low polluting choice in present (car and walk; walk and bus, EV, etc)	22 Getting worse	279 Staying positive

LEISURE	High polluting choice in future (conventional car only)	Low polluting choice in future (car and walk; walk and bus, EV etc)
High polluting choice in present (conventional car only)	47 Entrenched	71 Looking for positive change
Low polluting choice in present (car and walk; walk and bus, EV, etc)	21 Getting worse	321 Staying positive



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Citizens seek more ambition from policymakers

Overall preferred policy measures of Bristol citizens from ClairCity engagement process

Measures	Clean Air Zone	Active transport	Public transport	Cleaner transport	Energy measures	Other measures
Mentioned in all three main ClairCity engagement activities *)						
1. Ban/phase out most polluting vehicles (not just charge)	X			X		
2. Make buses greener and cleaner	X		X			
3. Cheaper public transport			X			
4. Create good alternatives to car use – walking and cycling		X				
Mentioned in two out of three main ClairCity engagement activities						
1. Reduce vehicle road space – increase public transport space			X			
2. Improve walking environment in Bristol		X				
3. Charge older/ more polluting vehicles entering the city	X			X		
4. Promote electric vehicles				X		
5. Awareness raising to promote active and public transport		X	X			
6. Make it easier for employees to work from home						X
7. Make property developers consider air pollution and climate change						X
8. Building housing close to major employment zones						X
9. More local shops and facilities in neighbourhoods						X
10. Organisations to provide more flexible working hours for employees						X
11. Improve energy efficiency for housing (rented/existing/new)					X	
12. Increase generation of solar wind and power					X	
13. Spread economic opportunities across different areas of the city						X

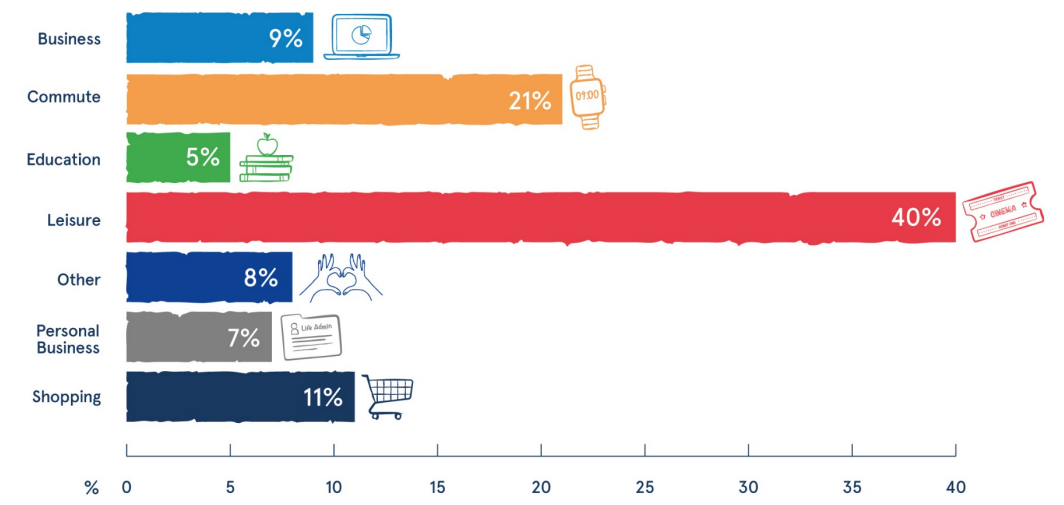
*) main ClairCity engagement activities: Delphi process (3 rounds citizen engagement in questionnaires, interviews, workshop), Mutual Learning Workshop (expert workshop), Skylines game (mobile phone game for citizens)



ClairCity Policy Summary
 Bristol's future with clean air

City-led air pollution reduction in cities
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KM travelled by motive, 2015 baseline in Bristol

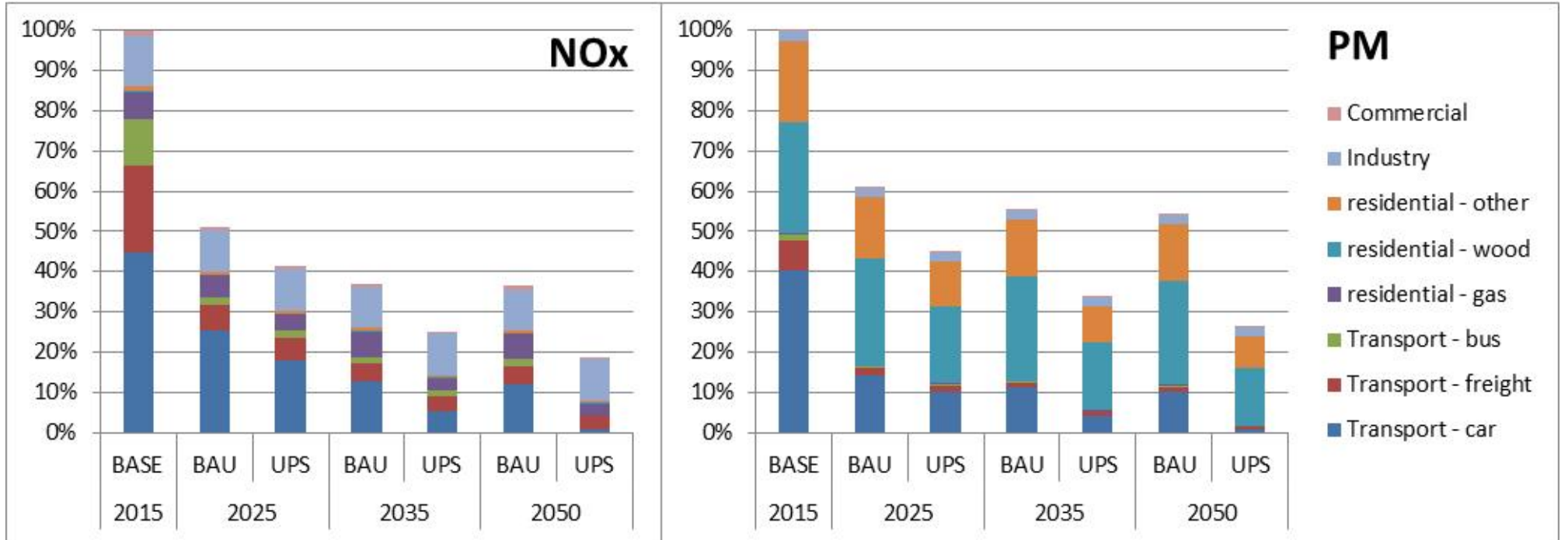


This graph shows the relative contribution of each motive to total KM travelled in Bristol in 2015.

IN BRISTOL, LEISURE AND SHOPPING ACCOUNTS FOR HALF OF ALL TRAVEL JOURNEYS IN A CAR - THAT'S MORE EMISSIONS THAN BUSINESS AND COMMUTING COMBINED



Citizens' Unified Policy Scenario



ClairCity modelled these Unified Policy Scenarios (UPS) and compared them to our Business As Usual (BAU), leading to compliance with legal NO₂ limit values in 2025.

The number of premature deaths would be reduced by about 50% in the UPS scenario.

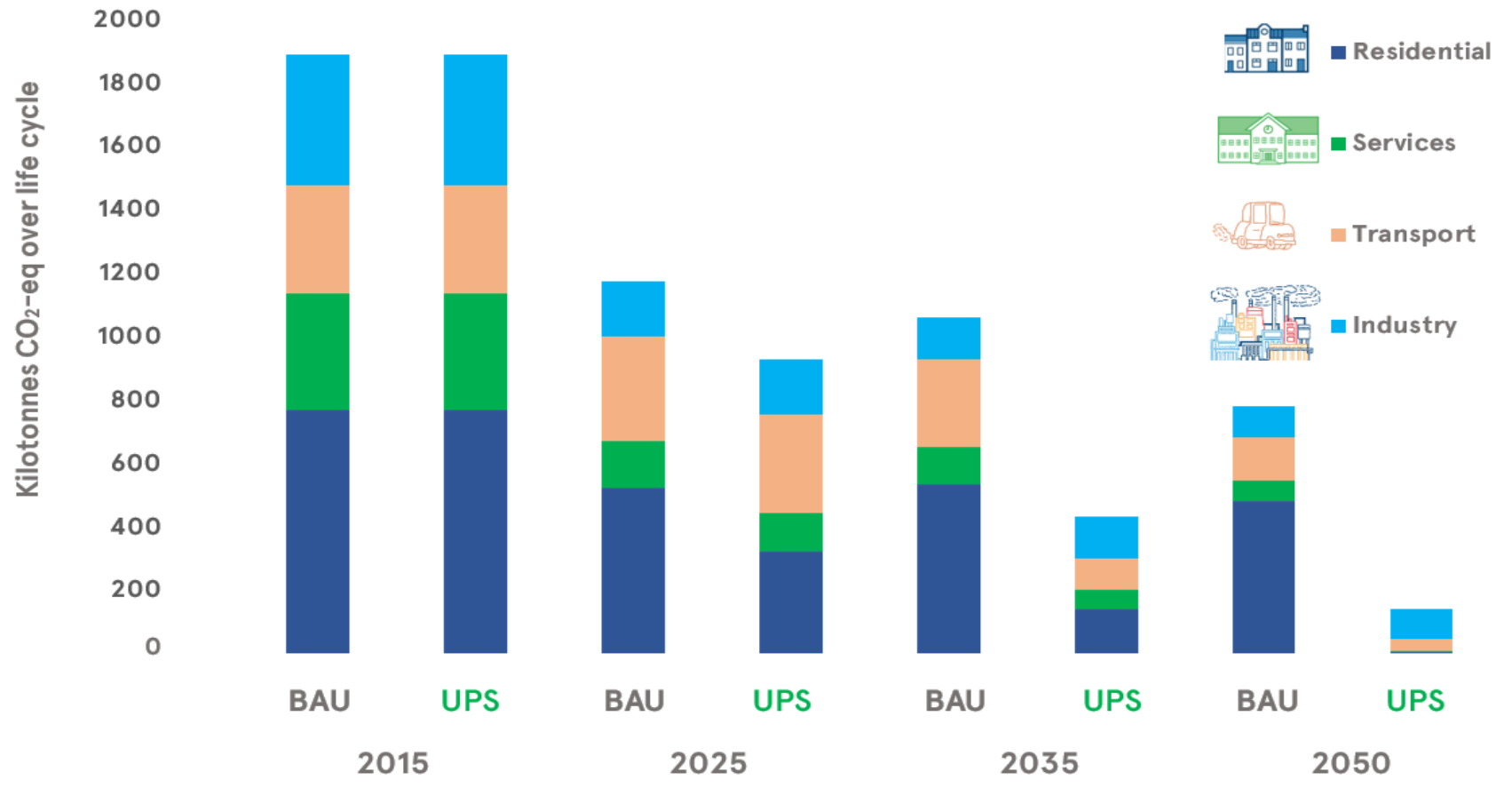


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Carbon UPS reductions by 2050 (kilotonnes CO_{2e})



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Our future with clean air



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