



Involving citizens in policy making: Lessons from ClairCity

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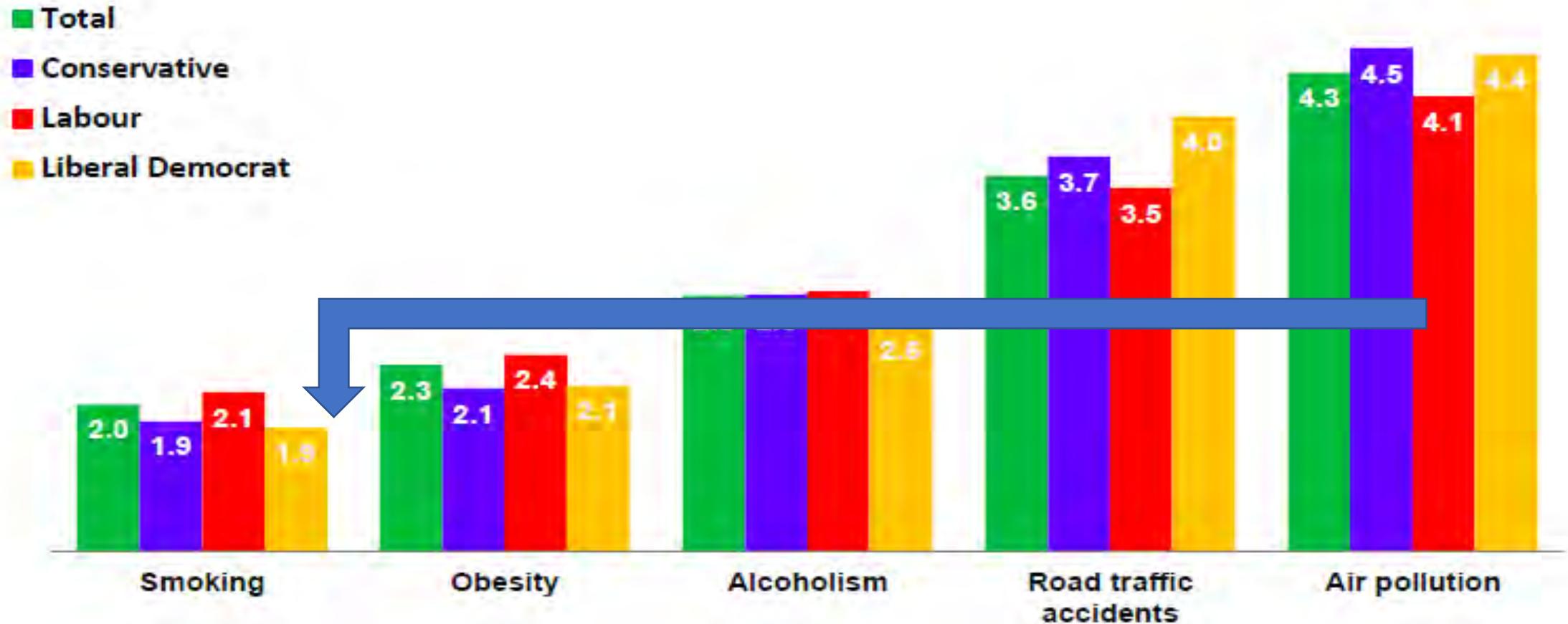
Aveiro, Portugal, 10th April 2019



We choose air pollution (& impacts)!

- Air pollution is a consequence of **political, economic and societal choices** and the availability of technology. Air pollution has a dynamic relationship with these factors.
- Our **social, political and economic responses** to air pollution have often lagged behind our awareness and understanding of the impact of air pollution.
- The **public's willingness** to accept a particular amount of pollution changes over time.
- The ability and willingness of our institutions to tackle air pollution **varies with the level of public concern**, the economic costs of change, the impacts of air pollution and the availability of technological solutions.

Political Understanding ≠ Political Will



Rank the following risk factors in terms of the number of early deaths attributable to them in the UK annually (rank 1 is for the greatest number of deaths; and 5 is for the lowest number). Base 101



Are we having the right conversation?

"I simply don't see accessibility and cost of public transport ever being better"

"Unfortunately I use my car"

"Heavy loads, steep hills, small children, tired – I just want to get home!"

"I need to pick my kids up and work part time so don't have the time to cycle or take the bus"

"I need flexibility to go where I want, when I want"



People create pollution through technology

Traditional approaches to managing air pollution



ClairCity approach to managing air pollution

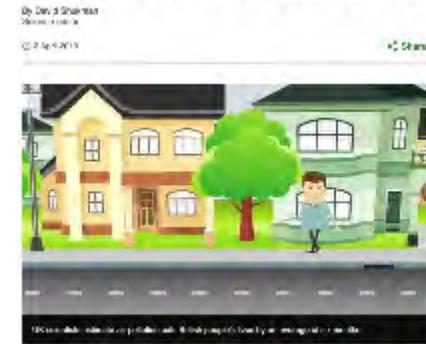


Has research/policy/media failed?

Failure of policy to bring citizens, communities and organisations on board?

1. **Poor perception of risk:** Issues are presented in abstract, descriptive and analytical formats.
2. **Psychological distance:** Focus on future consequences but costs/health not immediately recognised.
3. **Negative framing:** issues framed against losses to society e.g. higher taxation, reduced consumption, low quality of life etc
4. **Better contextualisation** to allow people to make sense of data in relation to the real world
5. **Overwhelming** people with evidence?

What does air pollution do to our bodies?



Air pollution: How damaging are idling cars and buses?



Watch how air pollution moves across Europe



Air pollution: Leeds street worst outside London, says campaign



Dangerous levels of roadside pollution in Wales 'overlooked'



Air pollution: Residents told to stay on most polluted street



Giving citizens a voice

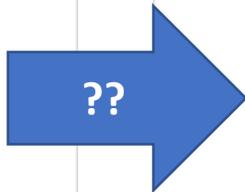
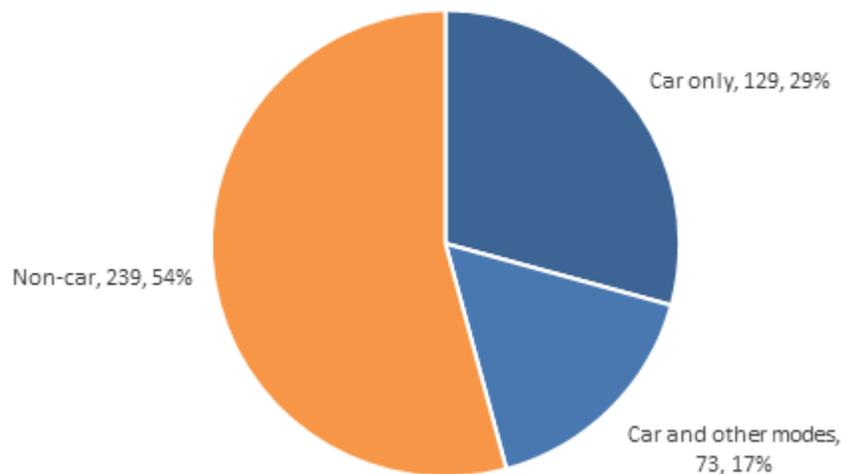
**Citizen & Stakeholder
Engagement**



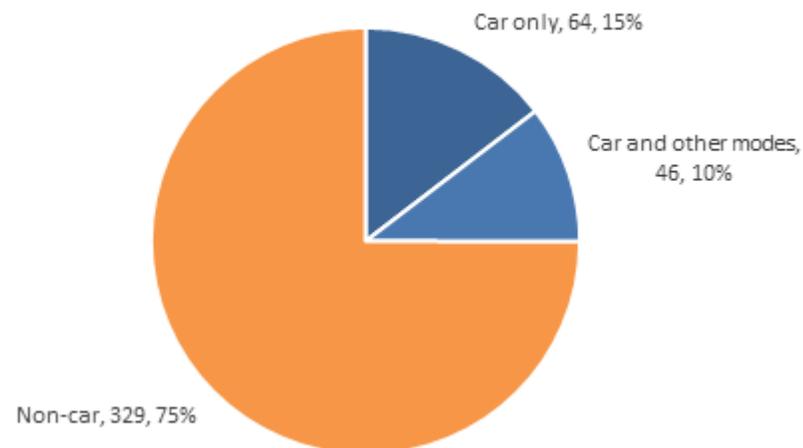
Giving data context through citizens - Delphi



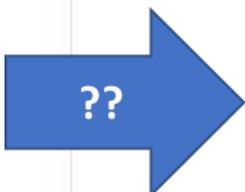
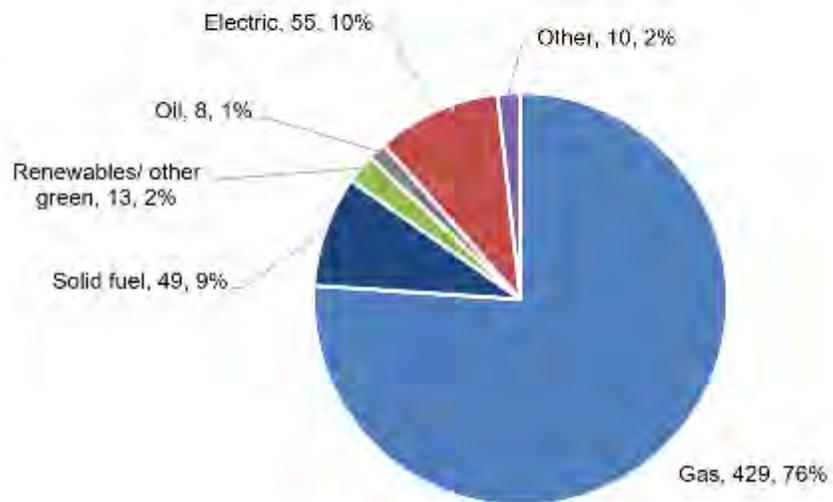
How do people currently travel to work in Bristol?



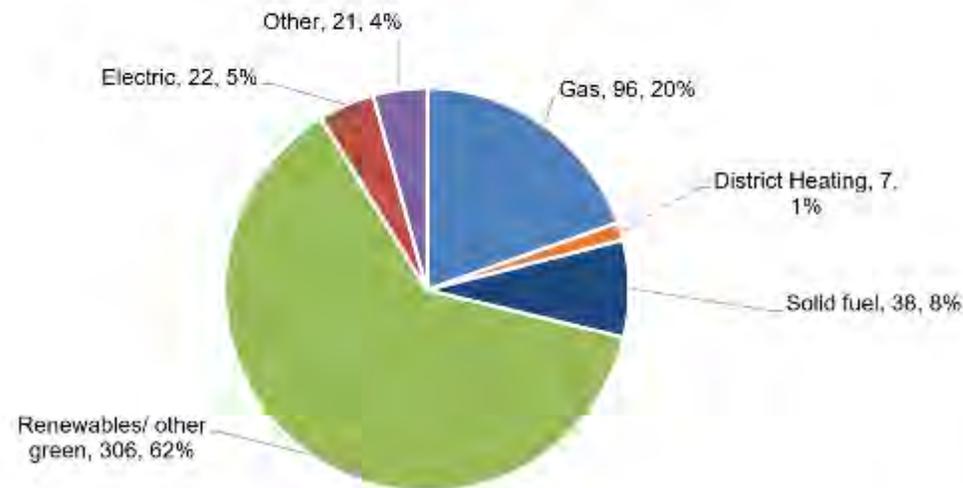
How do people want to travel to work in the future in Bristol?



Present home heating Bristol



Future home heating Bristol



Why do car users want to change / not change?

Current car user who would prefer walk/cycle/bus.

Insufficient/poor quality public transport

“Bus times do not fit with work shifts. Would have to take 2 buses and twice as long to drive. Cycling facilities at my workplace are not great, no shower. Roads feel unsafe at peak times, cycle routes are just on edge of road, often randomly stopping just before difficult areas eg junctions”

Flexible/convenient

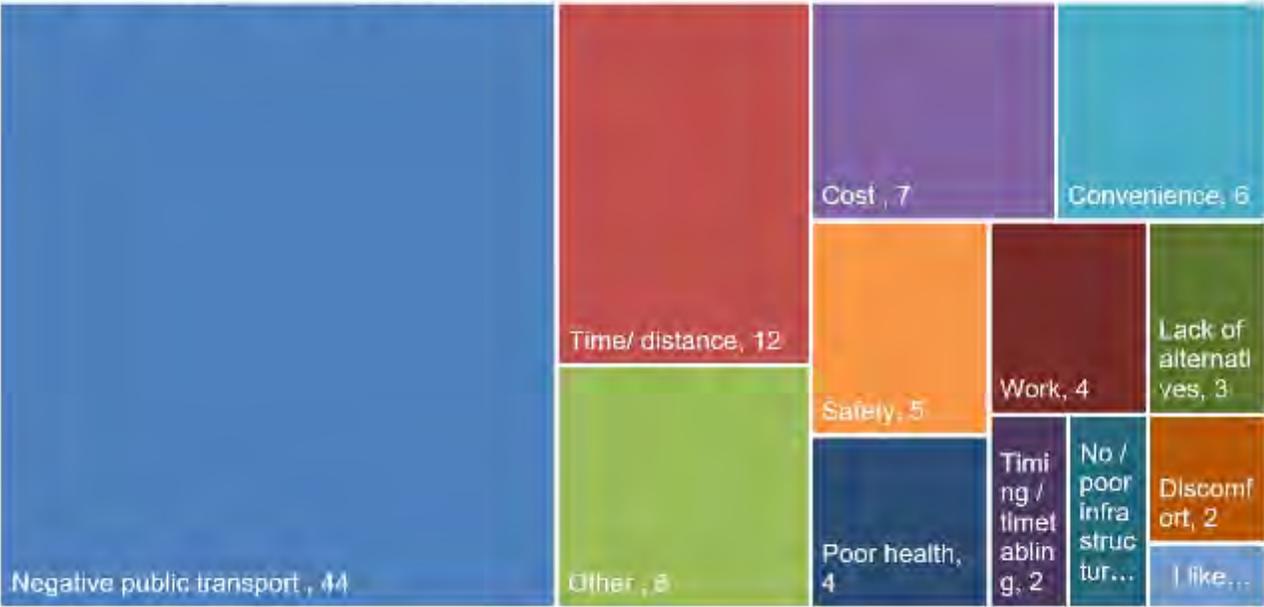
Safety fears

Lack of changing or shower facilities



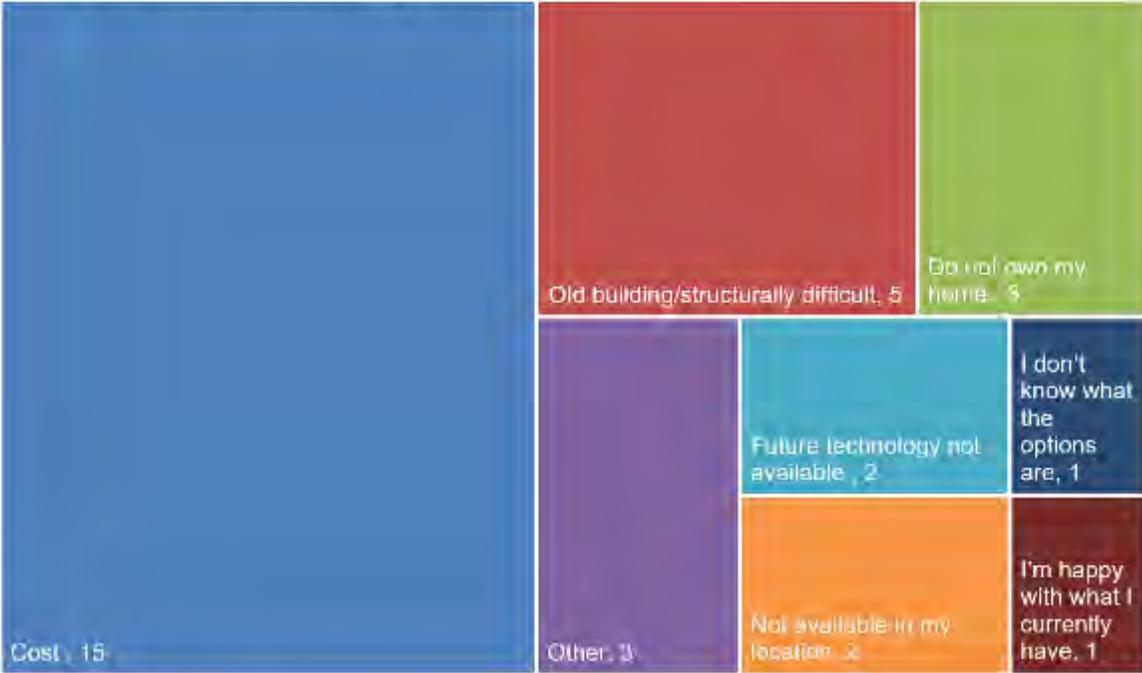
Barriers to change

Why are car users that are "looking for positive change" unable to switch to alternative modes of transport in Bristol?



- Negative public transport
- Cost
- Poor health
- Timing / timetabling
- I like it
- Time/ distance
- Convenience
- Work
- No / poor infrastructure
- Best option
- Other
- Safety
- Lack of alternatives
- Discomfort

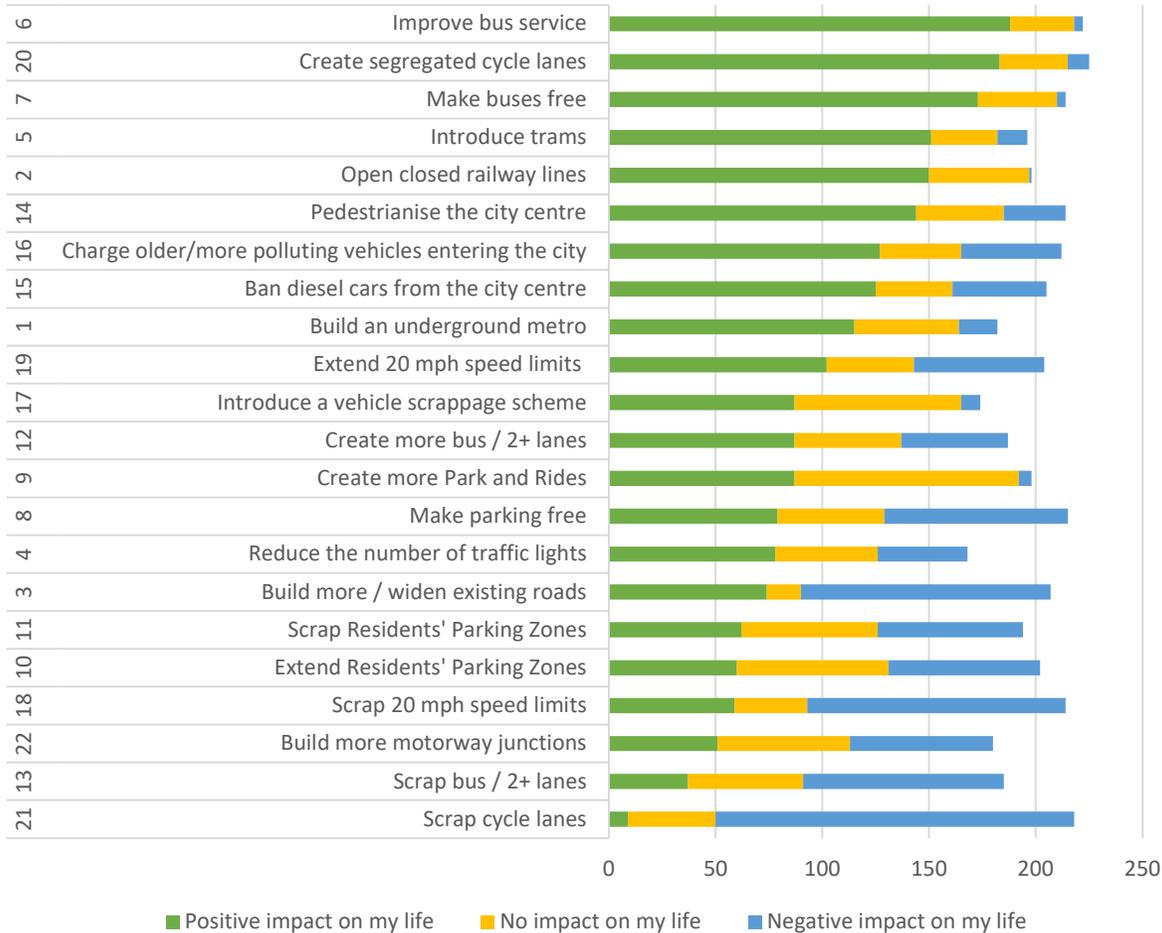
Why are people that are "looking for positive change" unable to switch to alternative home heating in Bristol?



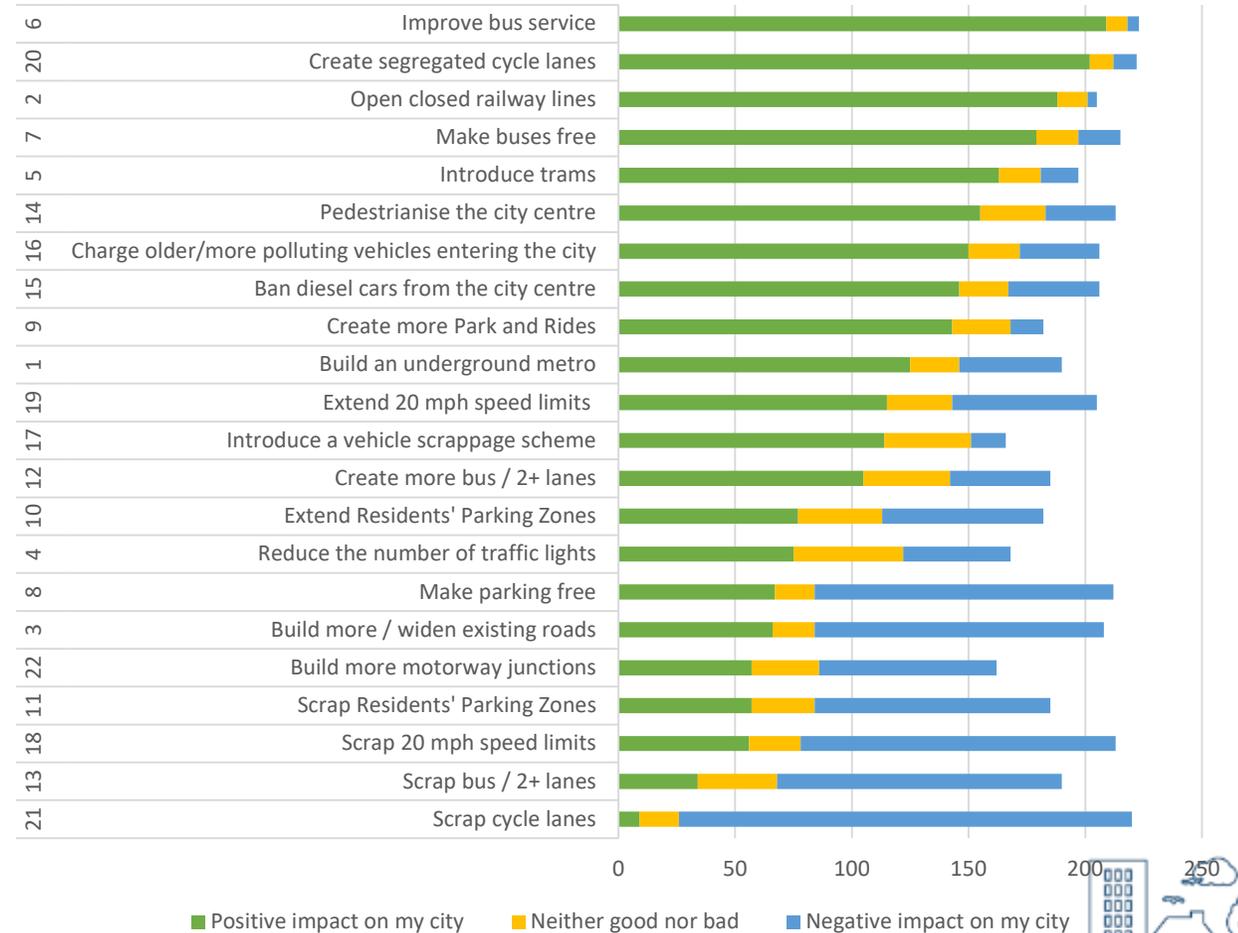
- Cost
- Do not own my home
- Future technology not available
- I don't know what the options are
- Old building/structurally difficult
- Other
- Not available in my location
- I'm happy with what I currently have

Enabling change

Citizens' views on impact of proposed policy options in Bristol on their lives



Citizens' views on impact of proposed policy options in Bristol on their city



Making it engaging: ClairCity Skylines Game

Attribute scores drive all AV-FX

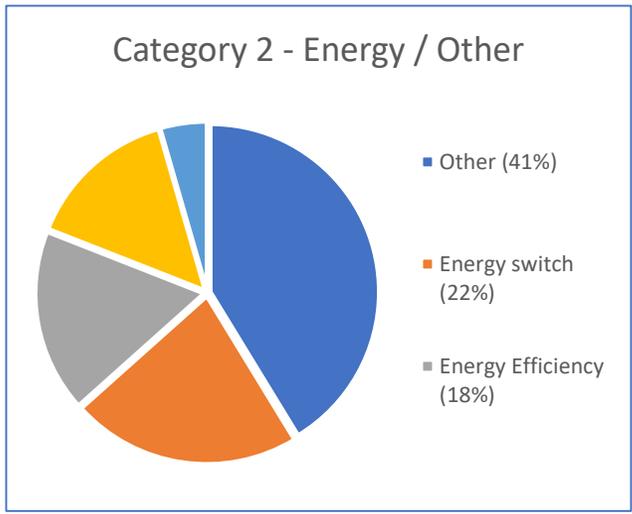
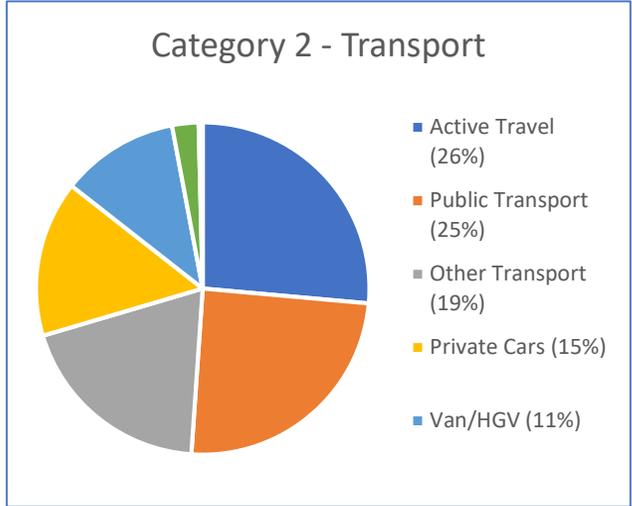
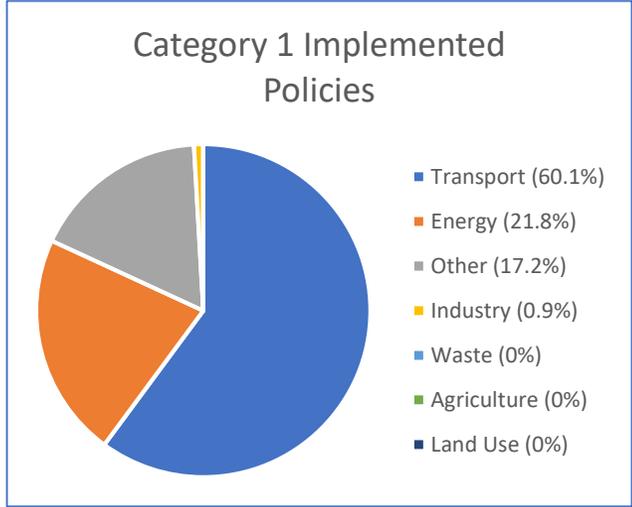
Game world areas decay or regenerate

City smog or decay (climate and economy)

Citizen health + satisfaction (sick or happy)

Attribute	Area	Visual Effect
Climate	Green Space	Smog
Economy	Bank	Dereliction
Health	Hospital	Citizen Sickness
Satisfaction	Tourist Area	Citizen Happiness

Understanding public perceptions & acceptability



Other Engagement Activities in ClairCity



ANTs

- Support: Get support for the decisions
- Adaptation: Effect of change
- Education: Policy, Decision making

ClairCity logo.

ClairCity logo.

‘Seeing’ people in the data

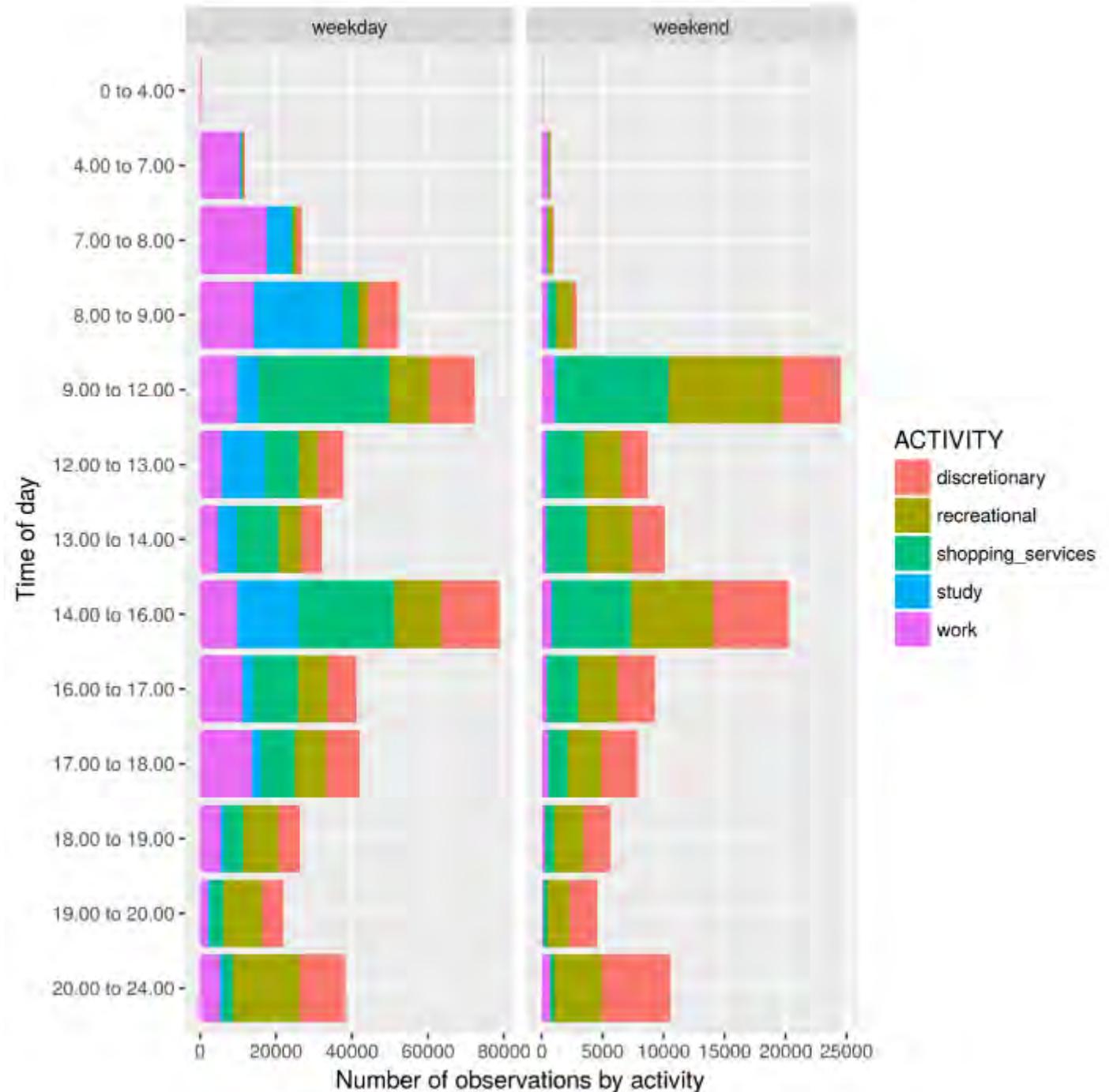
Establishing baseline evidence for a conversation



Quantifying our Behaviour: Transport

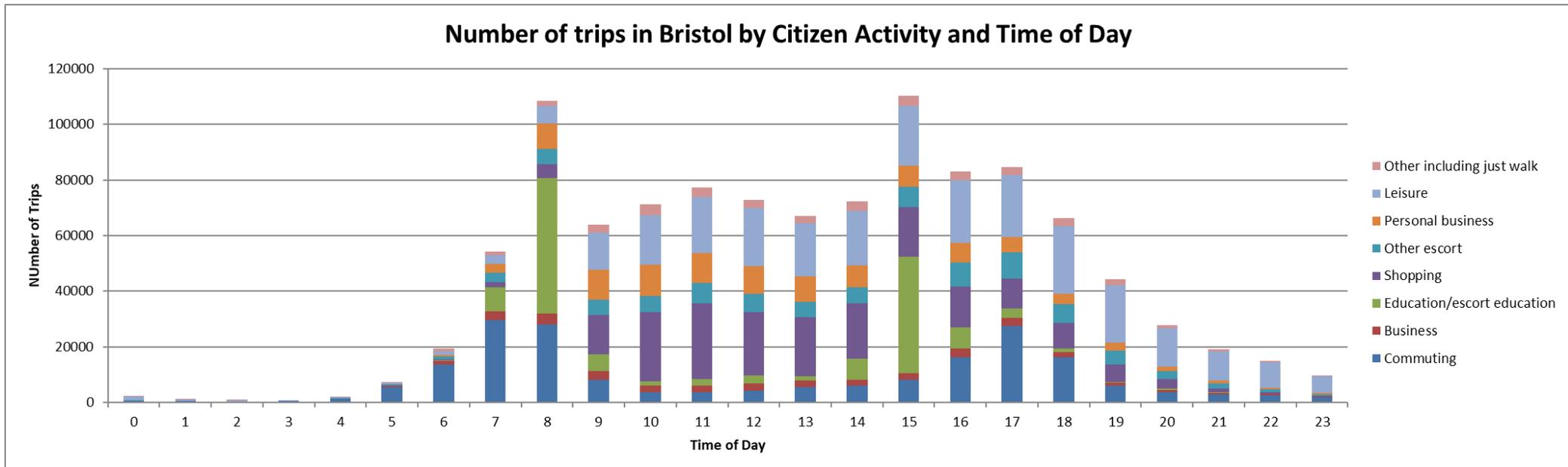
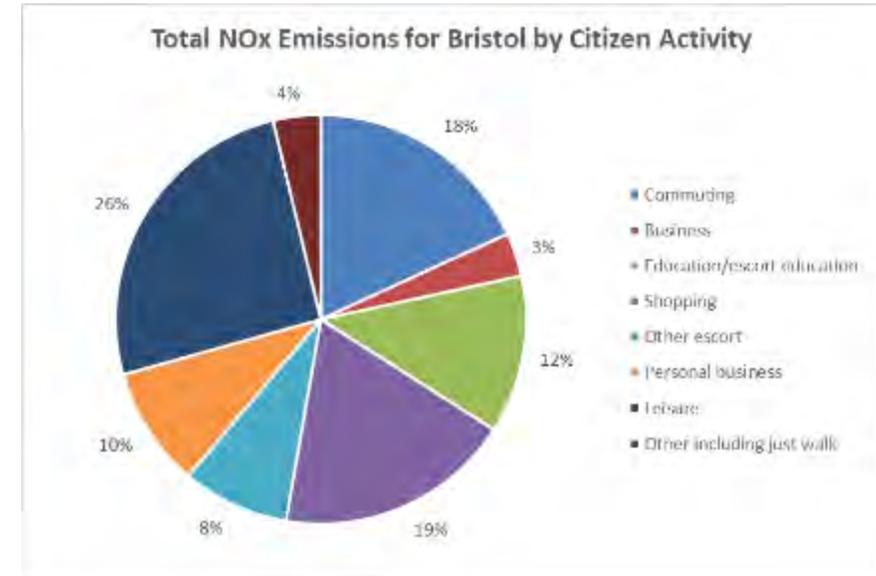
By passenger activities

By different purpose



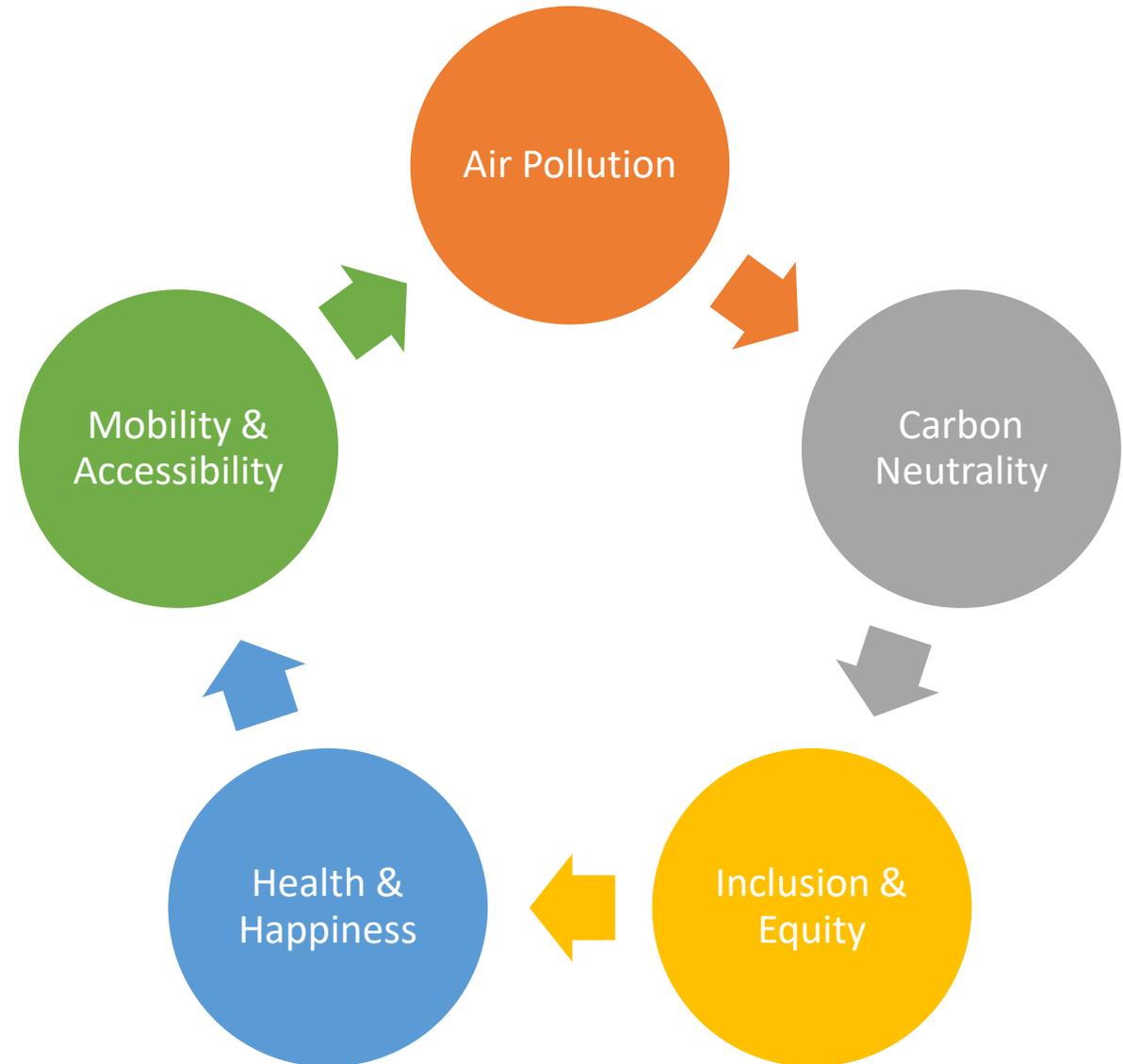
Quantifying our Behaviour: Transport

- By different people
 - Age – gender – income
- By different modes
 - Car – Bus – Train – Bike – Walk
- Source apportionment temporally by citizen activities



Carbon Neutrality & Air Quality?

1. Need to manage terminology complexity and communicate local context of scopes and targets.
2. Need to refer to physical and tangible effects rather than ideas and concepts.
3. Need to use the language of hope – because people do care.
4. New to make people the experts - create space for discussion and link to how we live and work in the future.
5. Need to co-design solutions in focus groups and open door events.



Health, Air Quality & Carbon

Engagement with 'upstream' stakeholders to identify barriers and opportunities to integrate health / AQ / carbon into urban developments.

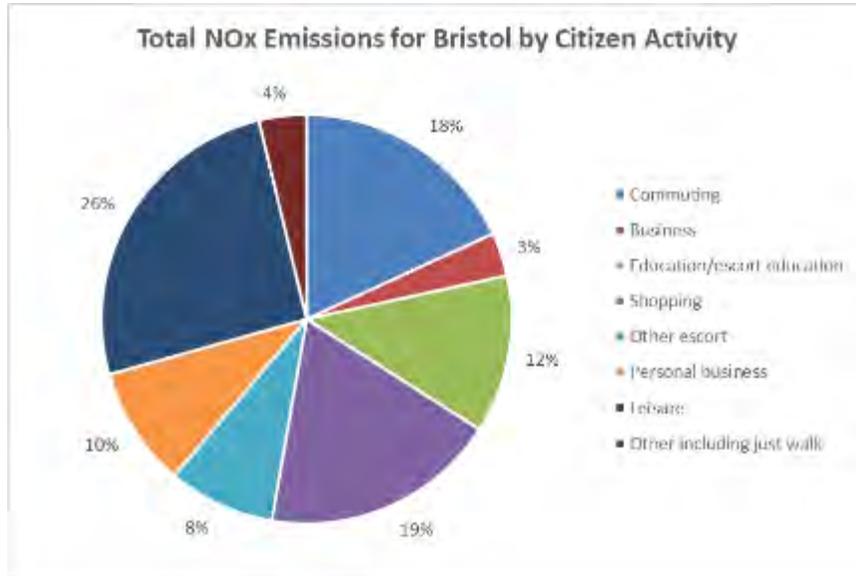
Public engagement on a variety of topics around health and the built environment including air pollution.



Using the SDGs to trigger a discussion



Citizen-inclusive & citizen-informed



- Targeted futures that identify ‘enabling’ policies so that greener choices/behaviour become the social norm for everyone
- Know your audience – go to them
- Be relevant by making it connect to the lived experience / expertise
- Find common ground
- Continuation of engagement
- Multiple engagement pathways
- Be positive



Thank You

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