# Improving Public Health: Introducing A Clean Air Plan for Bristol

# Growth and Regeneration Scrutiny Commission: 21February 2019

#### Timeline of work carried out to date

Early 2017 - Feasibility study approved for a CAZ, project team set up, Jacobs awarded the work

July 2017 - BCC received a Government Direction to deliver compliant air quality in the shortest possible time

Late 2017- Project scope moves from a Feasibility Study to a Clean Air Plan with the main part being a Clean Air Zone

March 2018 - Strategic Outline Case (SOC) submitted and approved at Cabinet

June 2018 - Project transitions from an Air Quality Feasibility study to a major transport project

#### SOC; 5 options

4 x charging and 1 x non-charging options (plus a benchmark option; CAZ D with no complementary interventions), approved to be modelled from an original list of 20 options and approved at Cabinet in March 2018;

 A Non-Charging Clean Air Zone with complementary noncharging interventions, including a potential diesel car exclusion zone.
A Charging Clean Air Zone (Medium size, Class C – all vehicles except cars) with complementary interventions

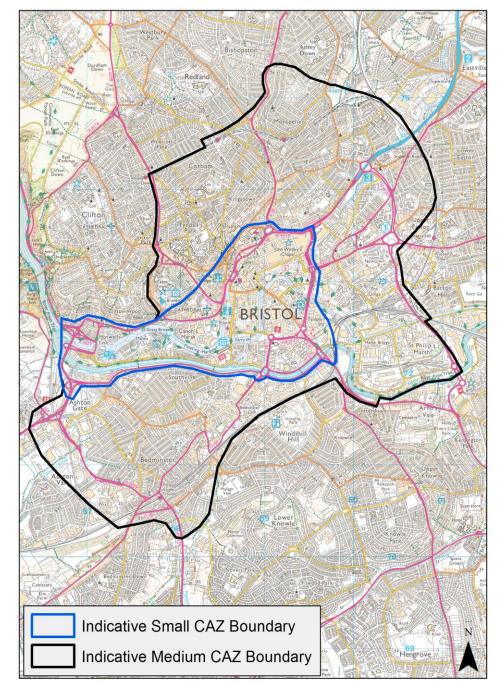
- 3. A Charging Clean Air Zone (Medium size, Class D all vehicles) with complementary interventions
- 4. A Charging Clean Air Zone (Small size, Class C all vehicles except cars) with complementary interventions

5. A Charging Clean Air Zone (Small size, Class D – all vehicles) with complementary interventions.

### SOC -Boundaries

2 boundary areas under consideration; medium and small.

#### Indicative CAZ Boundaries - Subject to Consultation



### **SOC - Mitigation Measures**

'Long list' of 70 mitigation measures (non charging) being developed.

Measures include;

- Scrappage scheme (not currently proposed to be funded by government)
- Mobility Credits
- **Targeted signals measures**; using traffic signals to ensure traffic flows quicker through busier transport corridors.
- Subsidized bus services
- Clean vehicle 0% interest loans
- Expansion of "Smarter Choices" Programme
- Bus priority scheme



#### Modelling results; two initial options

 Small area diesel car ban with bus/taxi fleet improvement to Euro6. Exceedances in 2021 at Rupert Street (42.84 μg/m<sup>3</sup>), Upper Maudlin Street (45.4 μg/m<sup>3</sup>), Queens Road, (43.0 μg/m<sup>3</sup>), Church Road (45.2 μg/m<sup>3</sup>).

Results show displacement is an issue. Fully compliant by 2023 (with the exception of the north section of Upper Maudlin St which would be compliant by 2024).

2) Medium CAZ D with complementary measures. Exceedances in 2021 at Rupert Street (46.09 μg/m<sup>3</sup>), Upper Maudlin Street (52.4 μg/m<sup>3</sup>), Park street (40.5 μg/m<sup>3</sup>), Queens Road, (47.9 μg/m<sup>3</sup>), Newfoundland Way (41.4 μg/m<sup>3</sup>), Church Road (45.6 μg/m<sup>3</sup>).

Compliant by 2027 (with the exception of the north section of Upper Maudlin St which would be compliant by 2030).

#### Negative impacts of initial options

- Disproportionate impact on low income households.
- Cannot reach compliance by 2021 without significant exceedances.
- Diesel ban would only be able to operate under restricted hours due to the limits on what can be achieved through a TRO, this reduces the effectiveness (modelling was for a 24hr ban) but also the impact.
- Diesel ban shows some increases in road traffic mainly outside of the Small CAZ boundary; namely the A369 and the iconic Clifton Suspension Bridge.
- Concerns of impact on local businesses and the socio-economic impacts.



#### **Economic Case summary**

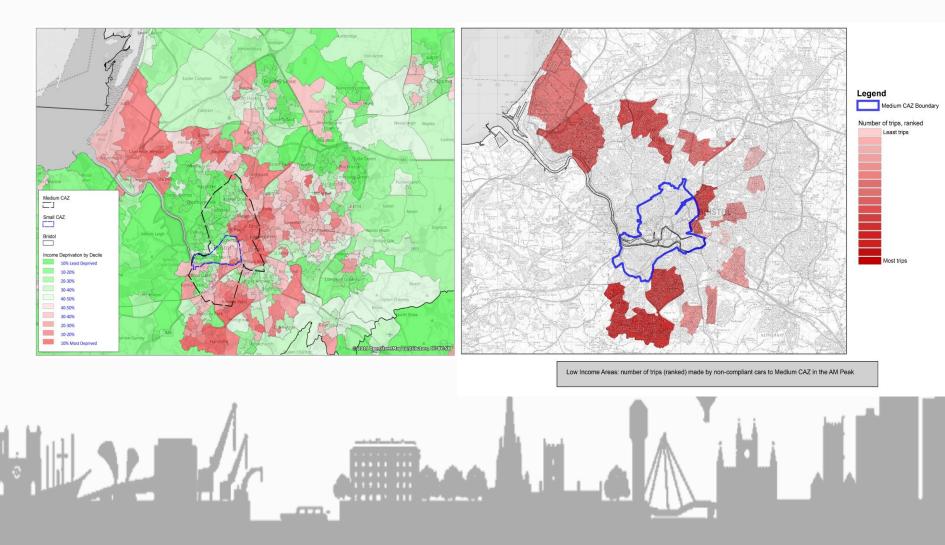
"Affordability impacts are adverse across the full range of relevant socio-economic and business groups for both options. Impacts are disproportionately felt by the most income deprived communities".

(Extract from; BCC CAZ OBC Economic Case January 2019, p.44 Section 3.12)



#### **Income Deprivation**

#### Low income households non-compliant car trips into a medium zone.



## Non-charging Option 1 variant

- Initial modelling reviewed to see what the impact would be, without a charging CAZ in place, of removing buses, taxis and HGVs emissions from a medium zone
- Early indications is that it could be possible to reach compliance by 2025
- Considering projects and interventions to reduce the impact of buses, taxis and HGVs i.e. electric taxis, bio gas buses
- Looking into other potential options to further bring forward the compliant year forward without having a negative socio-economic impact by revisiting the 'long list' of interventions

#### Next steps are to agree with Defra:

- Way forward
- Timescales
- OBC development
- Shared investment
- Collaborative working

