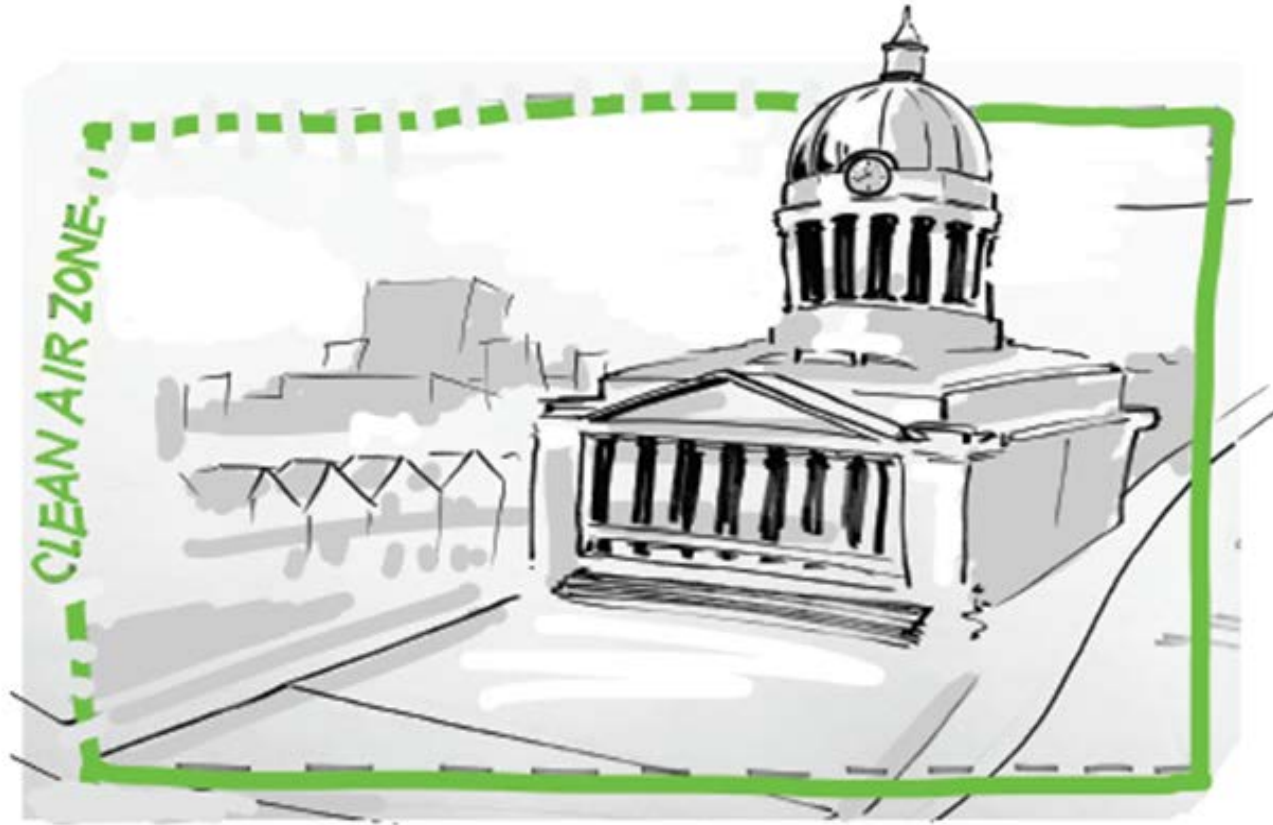


Nottingham's approach to the Clean Air Zone



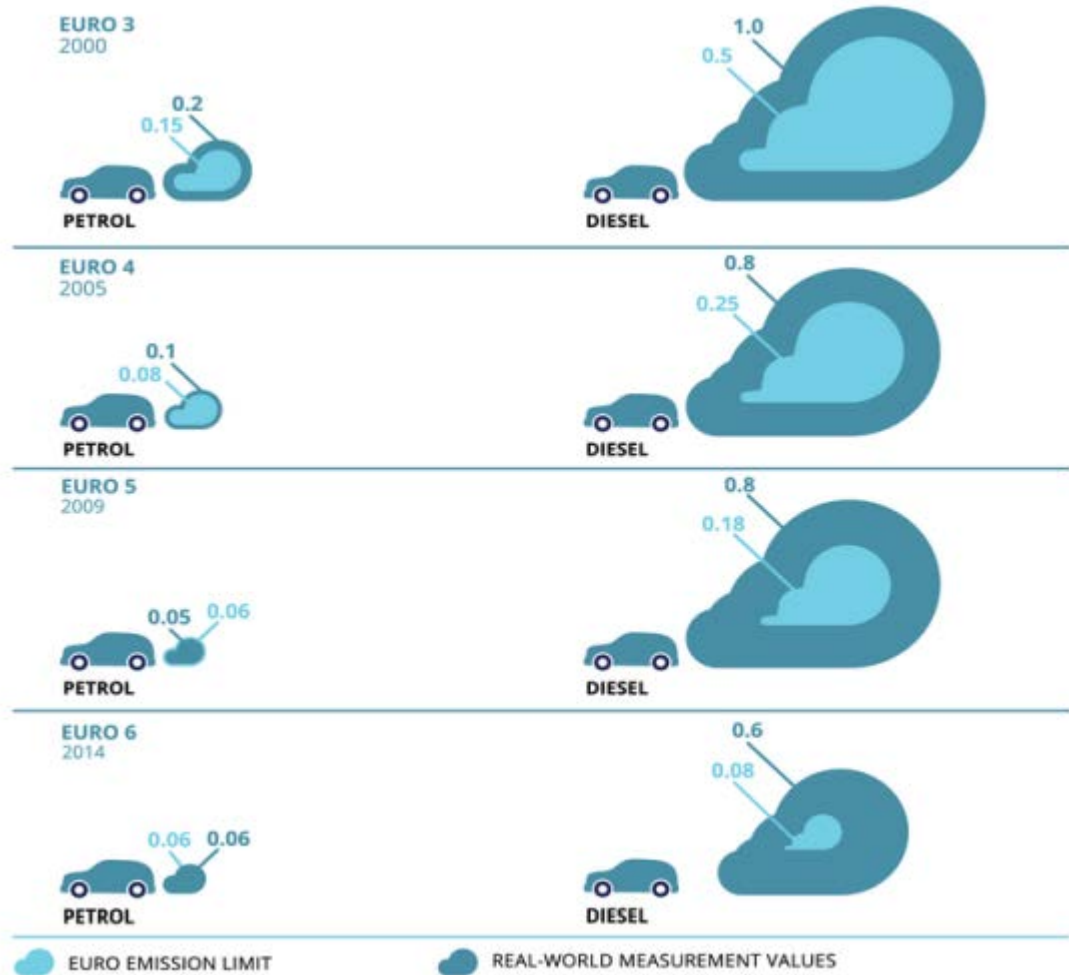
Nottingham City Council

Nitrogen Dioxide & the law

Legislation	Hourly	Annual
EU First Daughter Directive (99/30/EC)	200 $\mu\text{g m}^{-3}$ With No more that 18 exceedences per year	40 $\mu\text{g m}^{-3}$
Air Quality Strategy (2000)	200 $\mu\text{g m}^{-3}$ With No more that 18 exceedences per year	40 $\mu\text{g m}^{-3}$

Nitrogen Dioxide – Emissions

Emissions not reducing as fast as expected.



Interpretation of the New Plan

- Published in July 2017
- Additional Local Authority areas now identified as requiring improvements to Air Quality
- Less detail than the old plan
- Emphasis on Local Authorities to resolve the problem
- Nottingham will continue to develop a CAZ in line with the 2015 plan.



UK plan for tackling roadside nitrogen dioxide concentrations

Detailed plan

July 2017



Scottish Government
Riaghaltas na h-Alba
gov.scot



Department of
Agriculture, Environment
and Rural Affairs
www.dera.gov.uk



Llywodraeth Cymru
Welsh Government



Nottingham



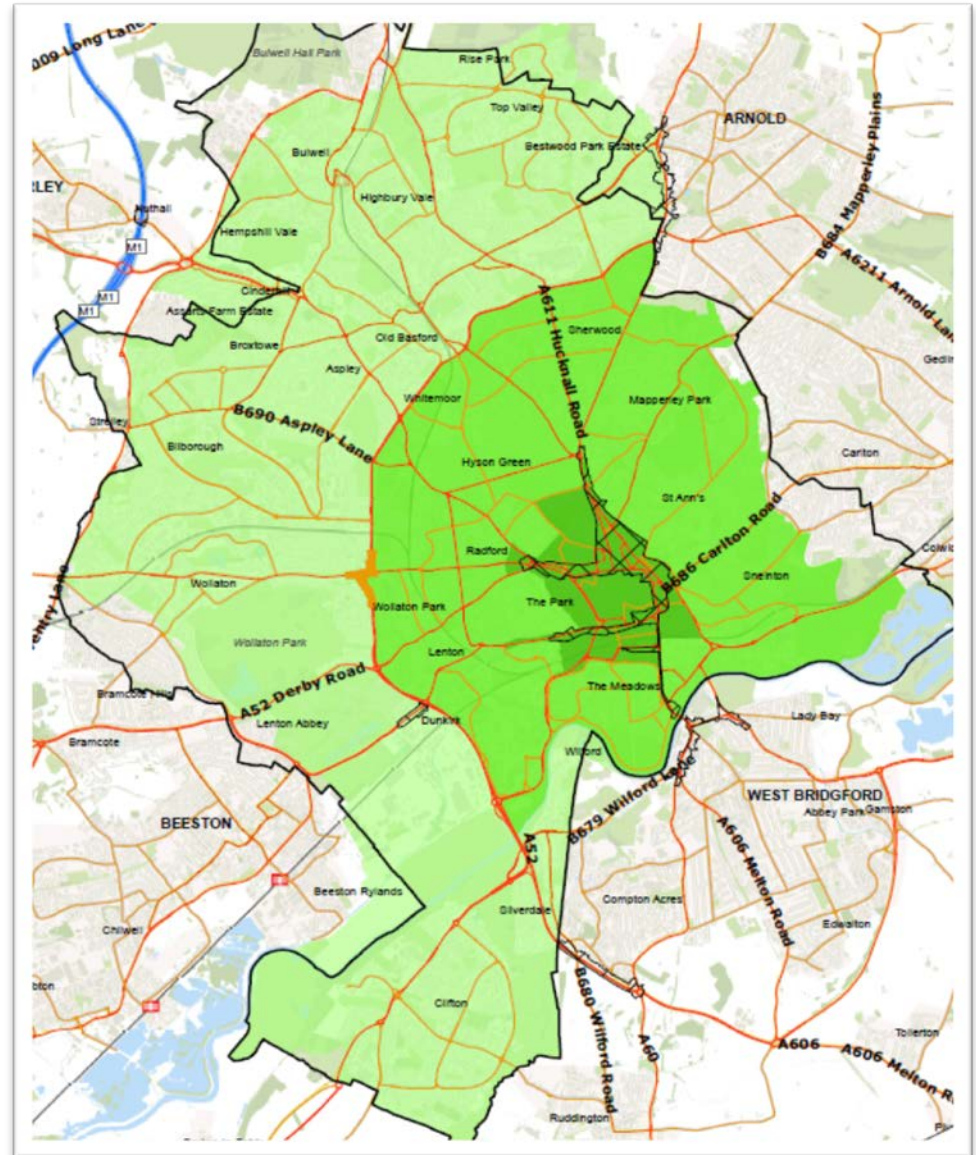
Legend

**NO₂ concentrations
(2020 $\mu\text{g}/\text{m}^3$)**

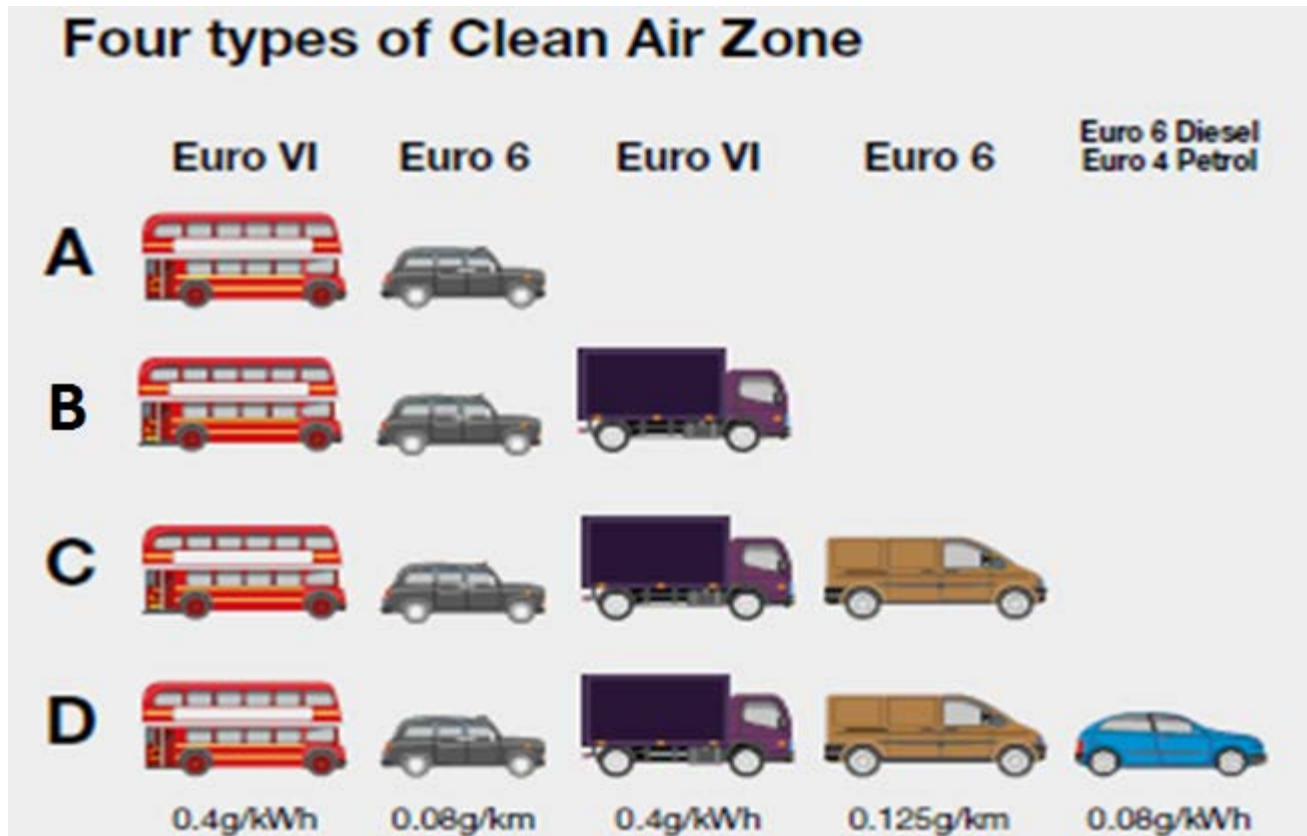
- >40
- 38-40

Modelling - Options

- City Centre
- Ring Road
- Entire City
- Possibly into neighbouring authorities



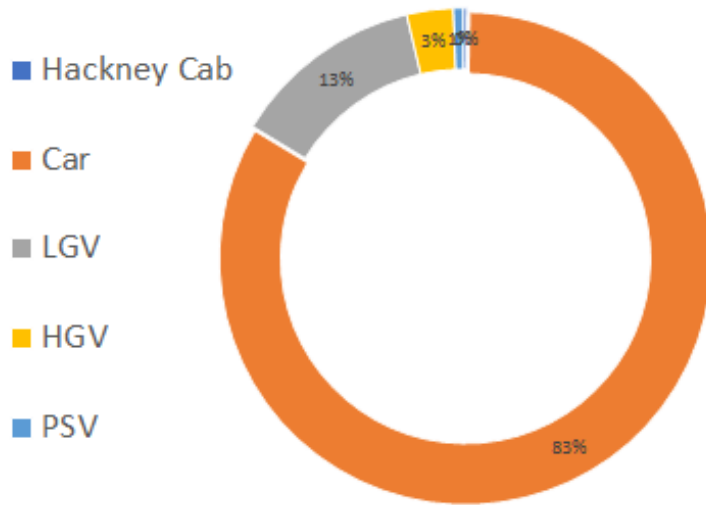
Vehicular CAZ Options?



Sources of Nitrogen Dioxide

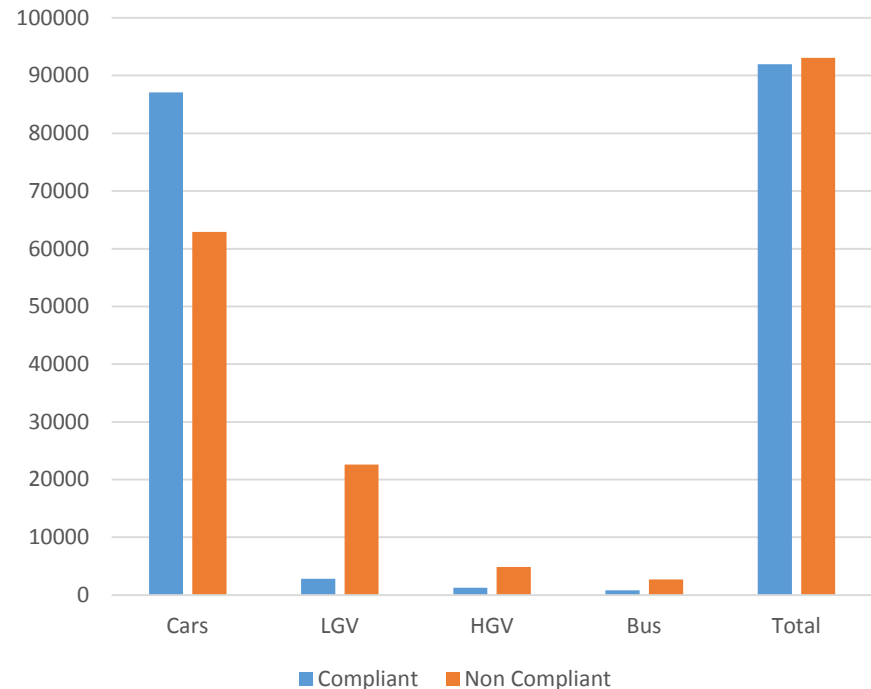
- Transport Is Responsible for 80% of emissions at the roadside
- The majority of the vehicle fleet in Nottingham are cars.

Percentage of vehicles captured by class



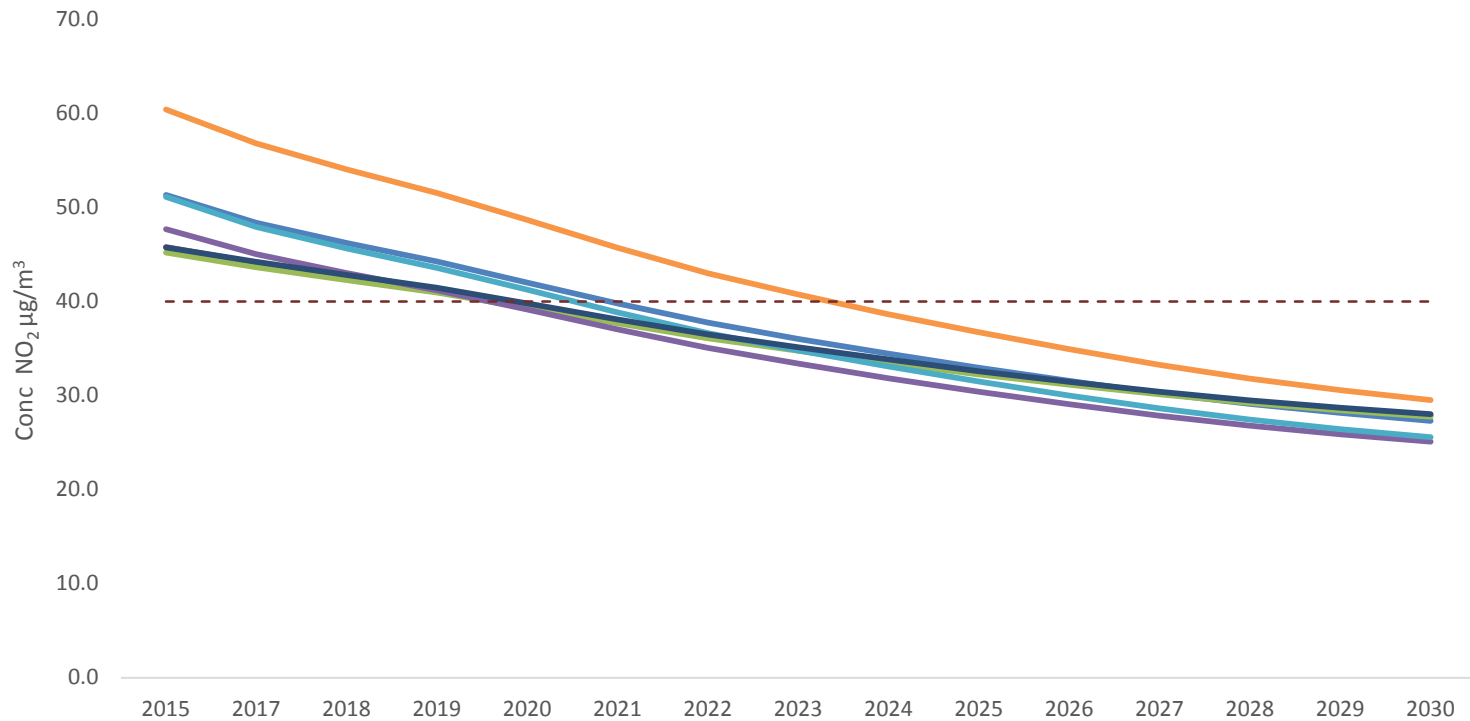
Class	Count	%
Hackney Cab	197	0%
Car	62516	83%
LGV	9478	13%
HGV	2281	3%
PSV	482	1%

Compliance by Vehicle Type (ex taxis)



Streamlined PCM results

Streamlined PCM results for selected locations



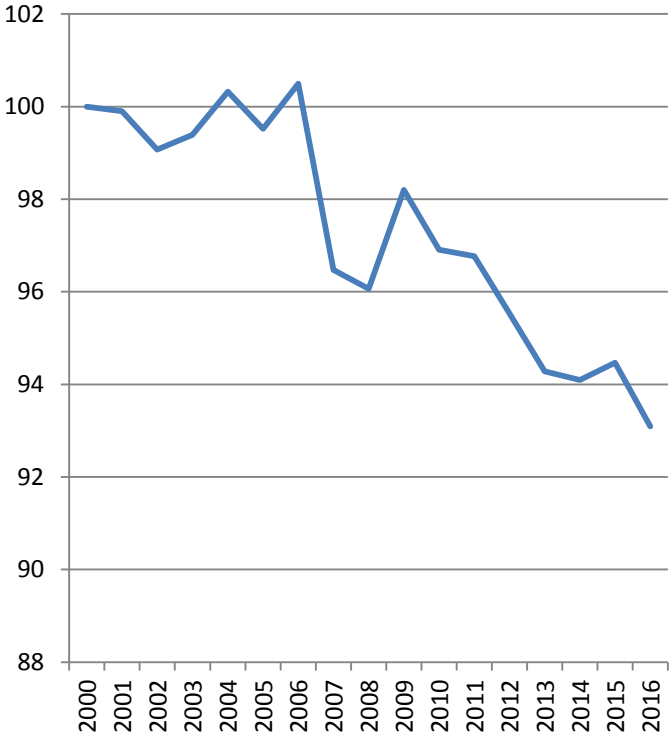
- Clifton Blvd (near showcase)
- A52 Between QMC and Uni
- North of BBC Island
- London Road N of Queens Rd
- Middleton Blvd near hawthawn Cres
- Compliance Limit
- Bridge over canal south of BBC island
- Crown Island



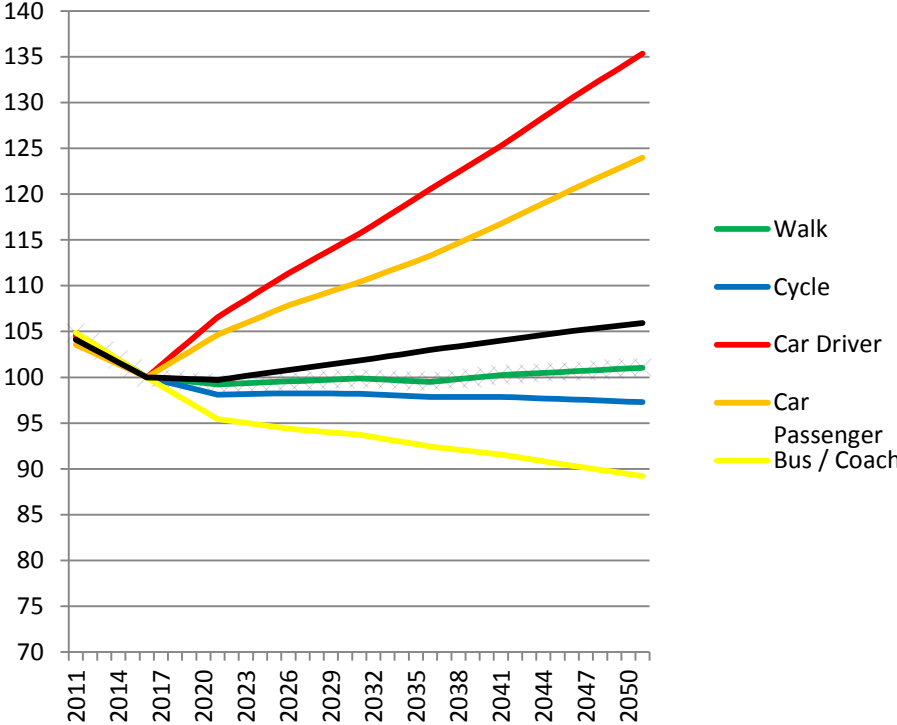
Traffic Growth in Nottingham

Discrepancy between modelled growth and historical growth

Traffic volumes change since 2000
(baseline: 100): Nottingham City.
(Data: AADF Traffic Count Data, DfT)



Predicted Percentage increase/decrease by mode in Nottingham (baseline 2016) (Data: DfT, TEMPRO 7.2)



‘Additional Measures’ - Existing

The City Council has a long record of promoting sustainable transport

- Tram Network and Electric link bus fleet, Gas Buses, Integrated Ticketing & Information
- Work Place Parking Levy (Inc Business Support Service)
- Taxi and Private Hire Strategy
- Cycle City Ambition Programme
- Behaviour change programme
- Go Ultra Low

‘Additional Measures’- Proposed

The City Council will continue to improve transport in the city and actively seek out new funding opportunities

- ULEV Taxi Demonstrator Project
- Cycle Infrastructure
- Try Before you buy LGV Scheme
- Bidding Through DEFRA Clean Bus Fund for Bus Retrofitting
- £2m from DEFRA – NCC Fleet Change & Smart Cities

Preferred Scheme

- City Centre
- Class B
- Incorporates:
 - Statutory Quality Partnership Scheme area
 - Clear Zone
 - City Centre AQMA
 - Broadmarsh Roadspace Transformation

Communications

The City Council is using a range of initiatives to promote the need for a reduction in Air Pollution

- Health and Wellbeing Strategy
- Joint Strategic Needs Assessment
- Sustainability Transformation Plans
- Air Quality Action Plans
- City Council Executive Publicly Supportive of Urgent Air Quality Improvements
- Two phase public consultation on CAZ

Progress to date

The City Council has started analysis of it's Clean Air Zone Options

- Modelling Methodology documents submitted and agreed with JAQU
- Validation of Transport Model Complete
- Base years 2016 and 2020 traffic models complete
- Air Quality Analysis commenced

Timescales

2017

- Early Consultation with Key Stakeholders (Feb - May)
- Revised Plan – Understanding impacts & Consultation (May/June)
- Procurement of consultants (June – Aug)
- Analysis to find Geographic extent of CAZ and complete final business case (Sept – Feb 18)

2018

- Draft Outline Business case (Feb)
- Option Modelling (Mar – Apr)
- Two stage Public Consultation (Mar & June)
- Exec Board Approval (July)
- Submit full Business Case (Sept)
- Secretary of State Sign off (Sept)

2019

- Detailed Design (Jan -Jul)
- Installation (signing and cameras)
- CAZ in place (Sept)

2020 CAZ operational 1st Jan



Thank you for listening!

<http://goultralownottingham.org.uk/>

[www.twitter/Transport_nottm](http://www.twitter.com/Transport_nottm)

