

# Making transport more sustainable

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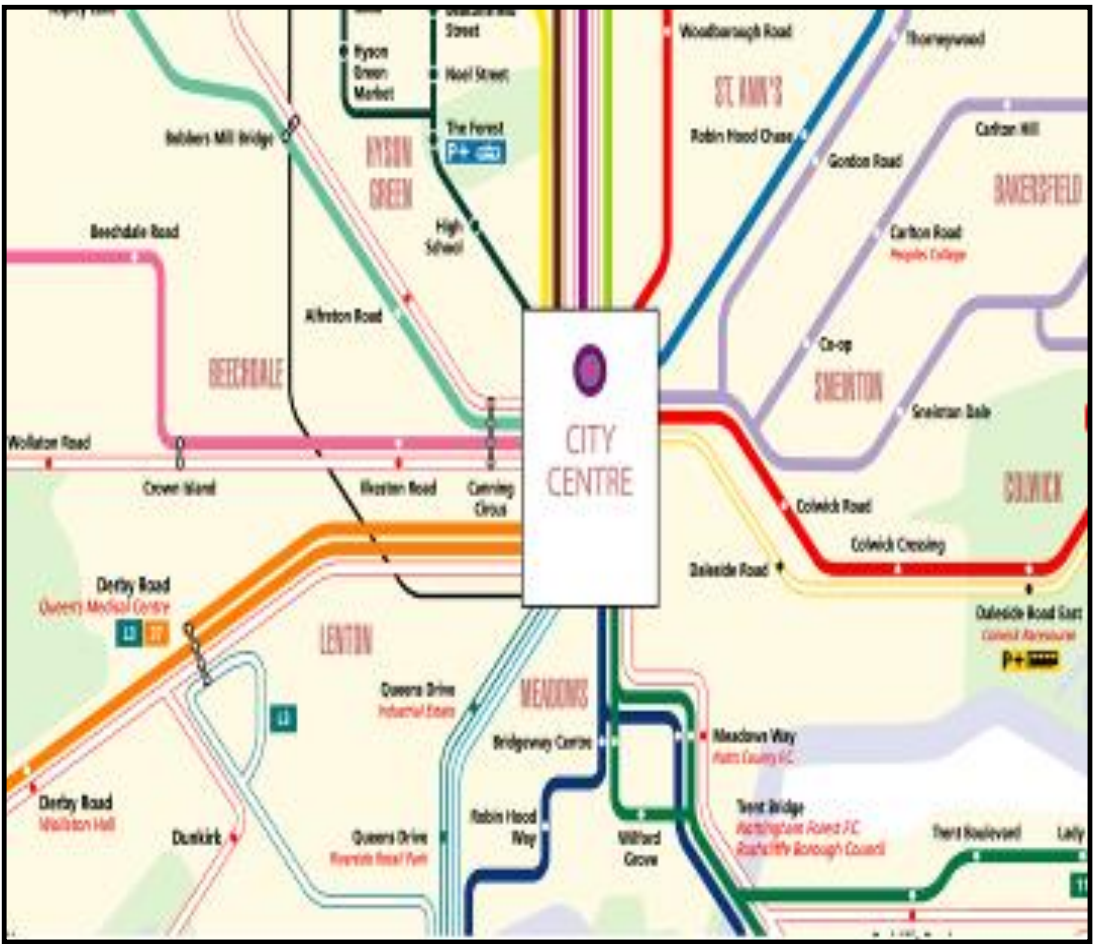
500k GN,  
1m J2W  
Low car in, high out  
Regional exp centre  
Compact  
70% out-of-town  
University/Colleges  
Health  
Unitary  
Politics



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# Public Transport

3 main bus indep  
Competition  
Tram growing  
Park and Ride  
Poor Rail  
CC focus – I/C  
CC - On Street



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# Policies for sustainable transport

- Modal Shift
- Partnership working
- Planning and City Centre
  
- Greening Vehicles

Focus PT increase -  
others cover vehicles



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# Greener Journeys report 2017

- Modern buses x10 less NOx per passenger km than mod diesel cars
- Bus retrofit x15 better value than diesel car scrappage
- Bus priority 75% fewer emissions per bus passenger km than car passenger km

**LowCVP**  
Low Carbon Vehicle Partnership

*Any Journey is  
Greener by Bus*

*Passenger experiences  
of modern bus services*



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# Evidence

	Bus	Bus/Tram
m pax pa		
2003/4	66.5	67.0
2016/17	66.5	81.5

- 1m pax inc pa from high base
- 8m increase from bus
- 6m increase from tram
- No concessionary impact

Modal shift 34% -> 40%

Traffic Congestion – no overall increase



# What done?

Tram network

Workplace Parking Levy

SPQS

Bus priority – all major routes

Enforcement – bus  
lane/parking

Real time system

AVL/TLP

Smartcard system

Park and Ride

Subsidised bus routes



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# How?

Patience – takes time  
Consistent approach  
Politics – stable  
Partnerships - various

## Funding

Commercial

WPL

Grants

Shift to electric/gas

Specialist shift



"We can't buy the entire concept, Mr. Hood; but that part about taking from the rich has potential."



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# Electric Bus Project



58 all electric + charging network

WPL/DfT £15m

15% reduction operation costs –  
no cuts

CO2/NOx savings



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# Integrated Smartcard and Real Time Projects



50% transactions smart

Robin Hood PAYG/Season

Moving to contactless

2000 electronic displays

All operators real time

24/7 updates

All operator real time app

All operator website



# Where next?

## Enhanced Partnership Scheme

- Retrofit
- Minimum entry requirement



## Complete bus priority around City Centre

## Complete 'Clean Airways'

## New bus stations

## Shared space and buses



## Planning for HS2 connectivity - tram

