

Low Emission Bus Workshop: Local Challenges in Leeds

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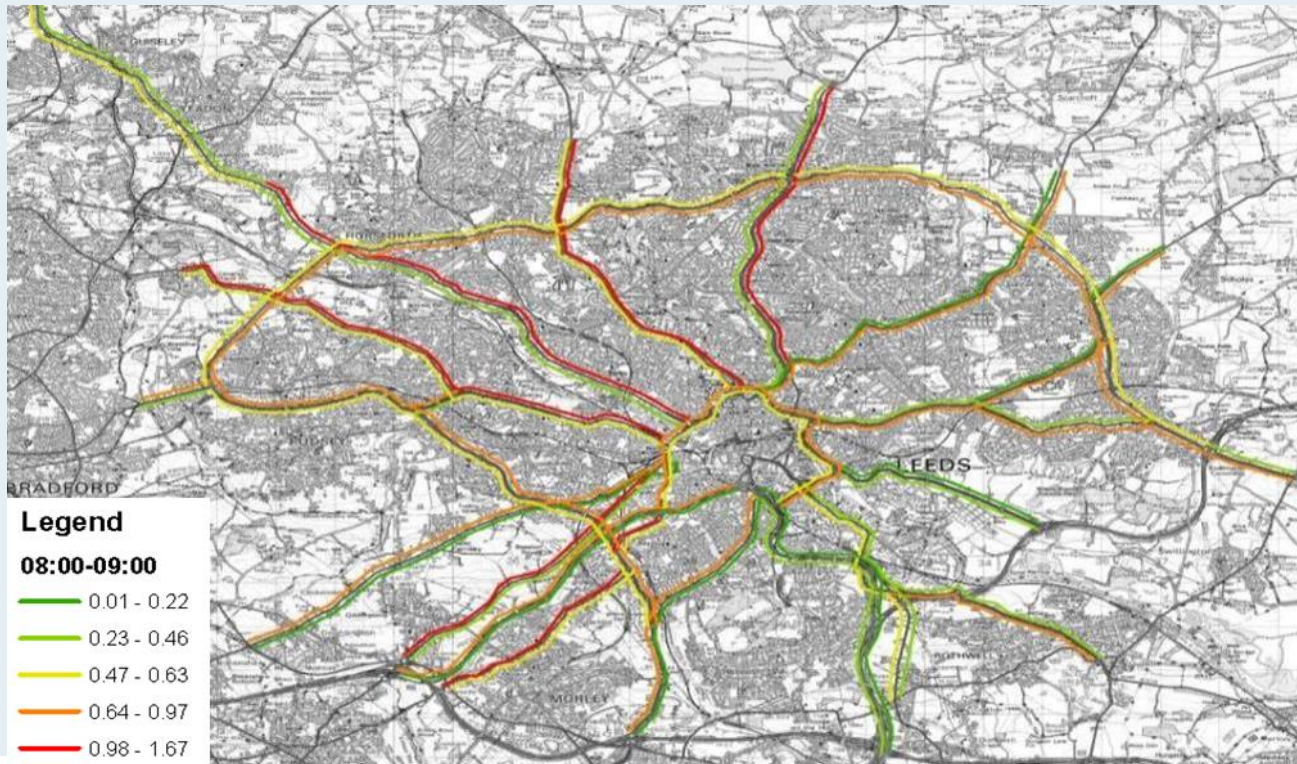


Summary of Key Transport Challenges

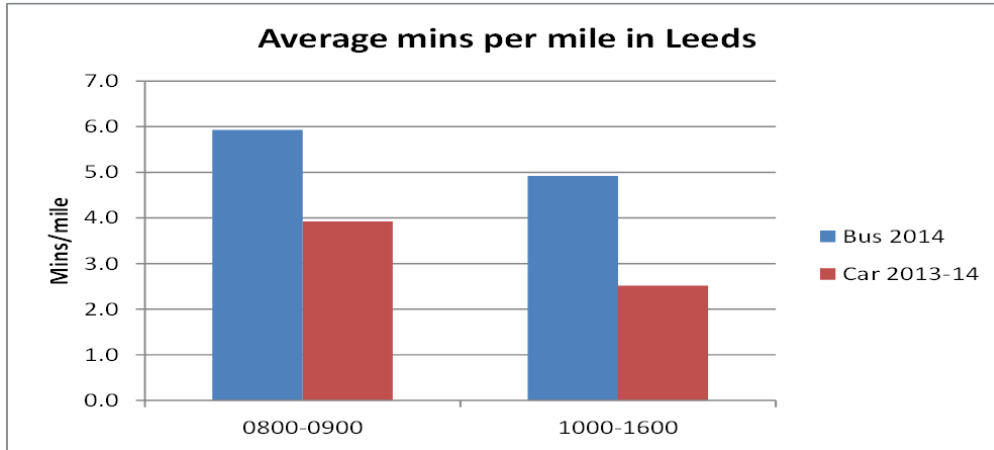
- Significant population growth of up to 15% by 2028 to 860,000
 - Most congested part of the Leeds highway network are to the north west
 - Housing growth 70,000 new homes by 2028
 - Distribution of new housing towards eastern side of Leeds
 - Distribution of proposed new employment is predominantly to the City Centre and east of the city
 - Air quality issues equating to 350 deaths per annum in Leeds
 - Economic growth worth £24 billion per annum by 2020
 - Growing the role of the bus and usage from a declining position
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Key Challenges – High Levels of Highway Congestion

- **Traffic has increased** by 12% between 2000 and 2015. This growth in trips has put increased stress on the road network
- **Significant congestion** on the key radial routes into and out of Leeds city centre in the weekday peak hours, especially to the North West.
- Significant **population growth** of up to 15% by 2028 with new housing and employment predominantly in Central and East Leeds



Key Challenges - Declining Bus Patronage

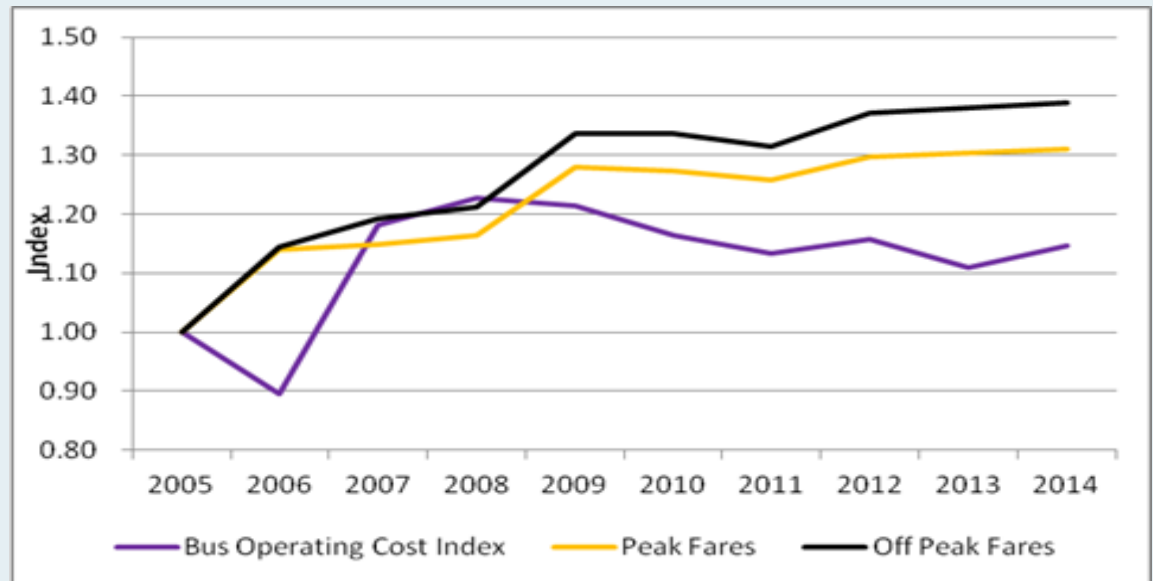


BUS DELAY

- This delay is not consistent across all transport modes, with bus journey times two minutes slower per mile compared to cars in the AM peak hour in 2013-14

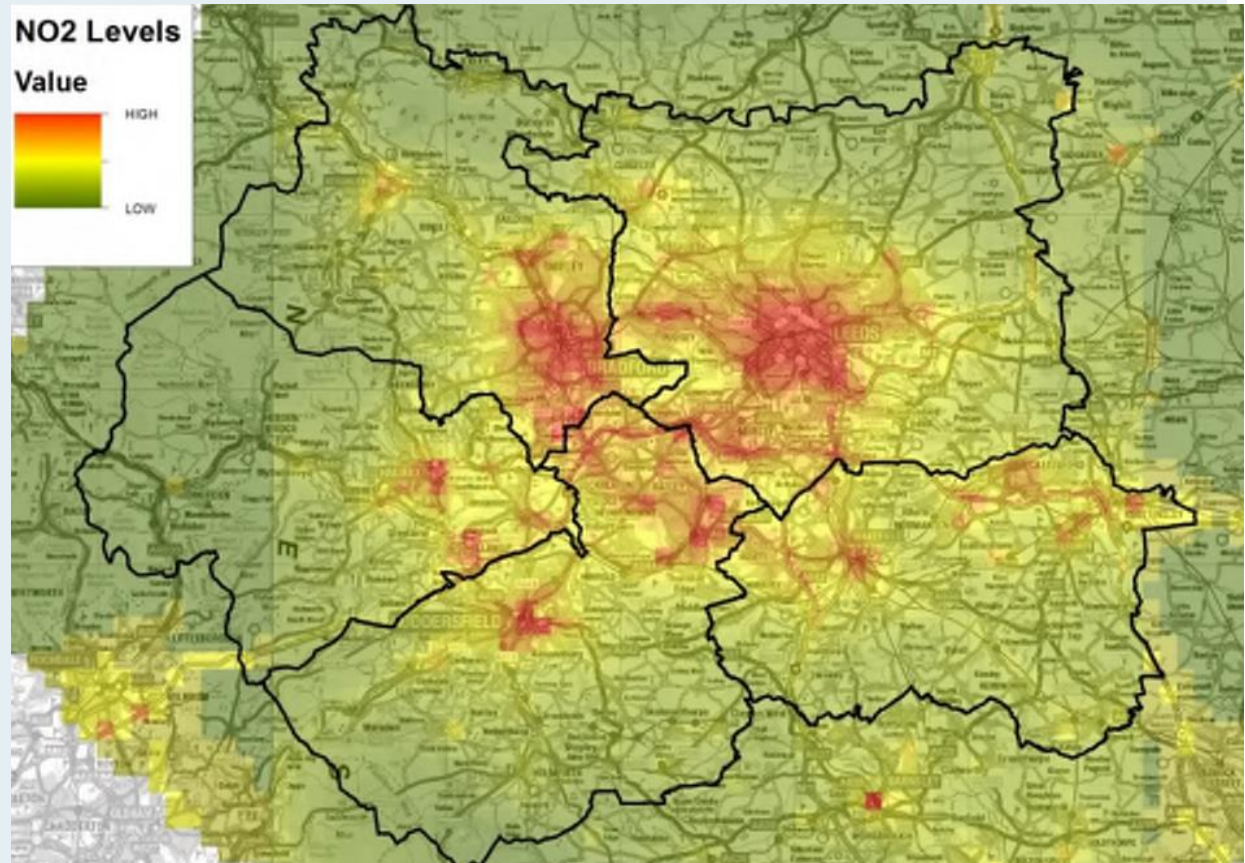
RISING COSTS

- Indices of Real Average Adult Bus Fares for West Yorkshire and Costs of Bus Operation 2005-14.

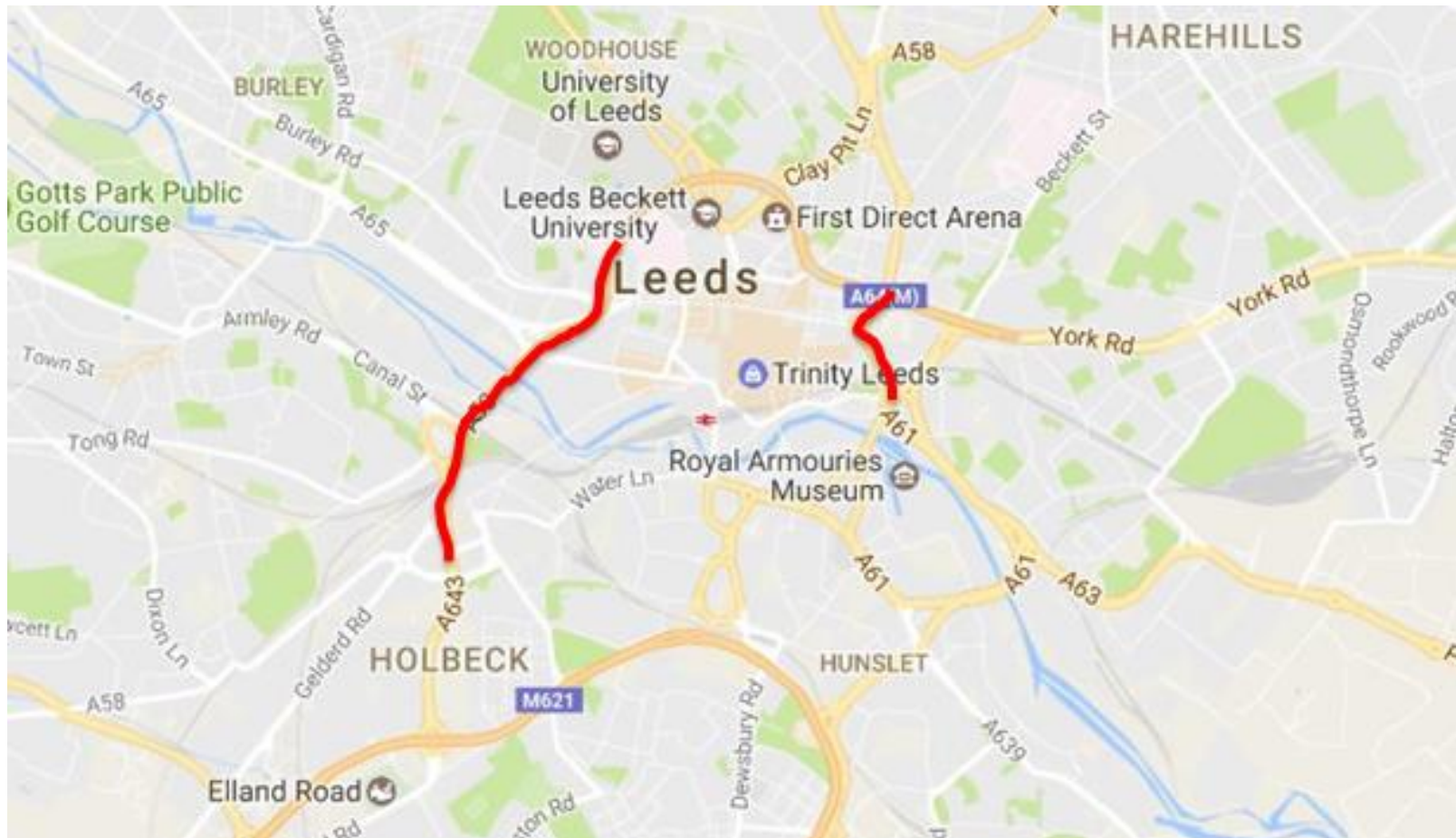


Key Challenges – Air Quality

- Across Leeds, 1 in 20 deaths are attributable to air pollution for the over 30s.
- Traffic congestion exacerbates emissions of air pollutants, greenhouse gases and noise.
- Emissions from buses are one major contributor to poor air quality within Leeds.



Area predicted to fail NO2 standard in 2020 by DEFRA



Transport Strategy

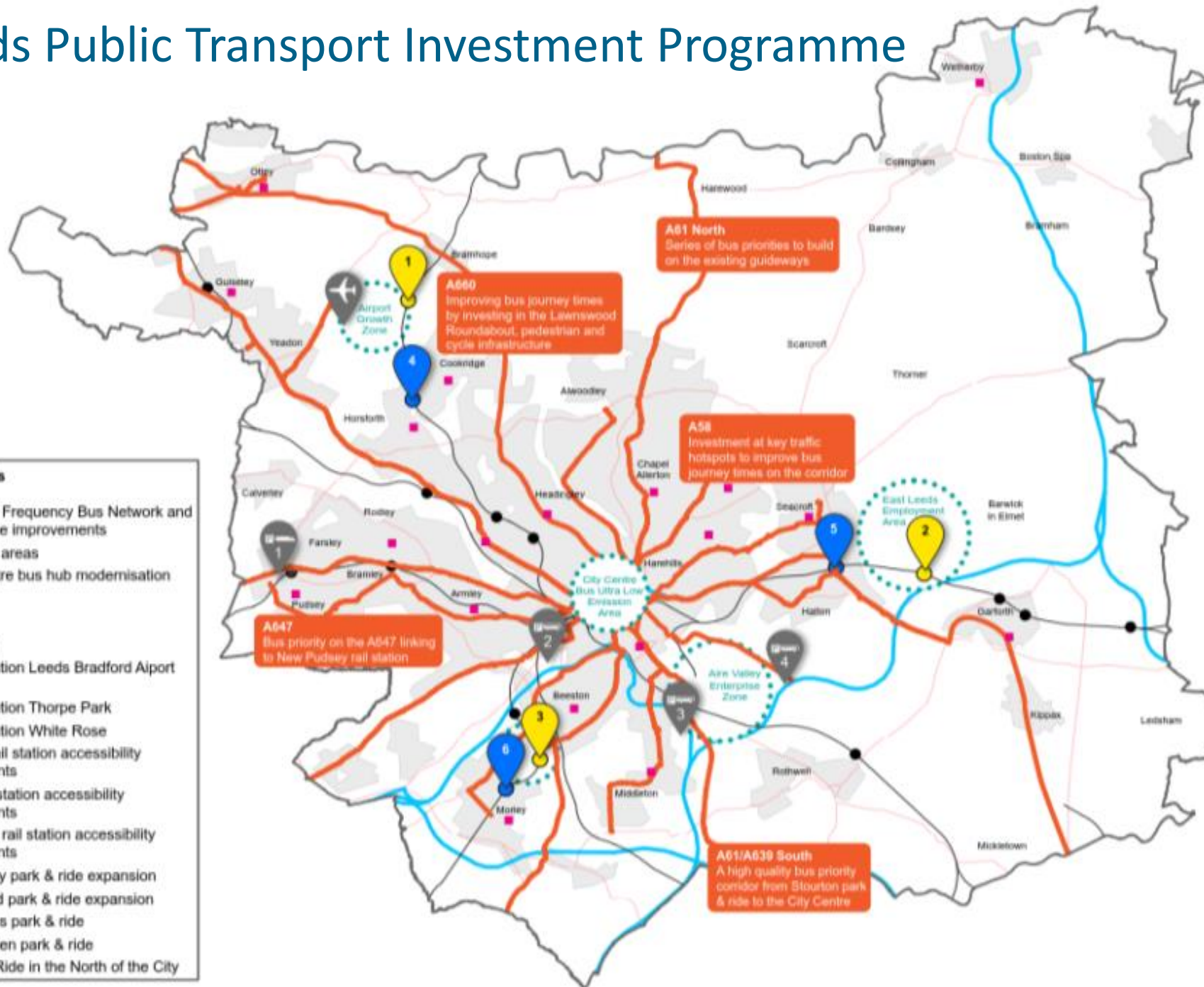
December 2016 Executive Board

- **Prosperous Leeds** - A transport system for Leeds that facilitates a prosperous, sustainable economy for the City, the City Region, the North, cementing our long-term economic competitiveness both nationally and internationally.
 - **Liveable Leeds** - A transport system which helps Leeds to be a great place to live and work for everyone.
 - **Healthy Leeds** - A transport system that has a positive effect on people's health and wellbeing and raises health and environmental standards across the city through the promotion of walking and cycling and the reduction of air pollution, noise and carbon emissions.
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Leeds Public Transport Investment Programme

Outline Proposals

- Leeds High Frequency Bus Network and bus real time improvements
- ⊙ Key growth areas
- District centre bus hub modernisation
- Motorway
- Rail line
- Rail station
- New rail station Leeds Bradford Airport Parkway
- New rail station Thorpe Park
- New rail station White Rose
- Horsforth rail station accessibility Improvements
- Morley rail station accessibility Improvements
- Crossgates rail station accessibility Improvements
- New Pudsey park & ride expansion
- Elland Road park & ride expansion
- Stourton bus park & ride
- Temple Green park & ride
- Further Park and Ride in the North of the City



Headline Target



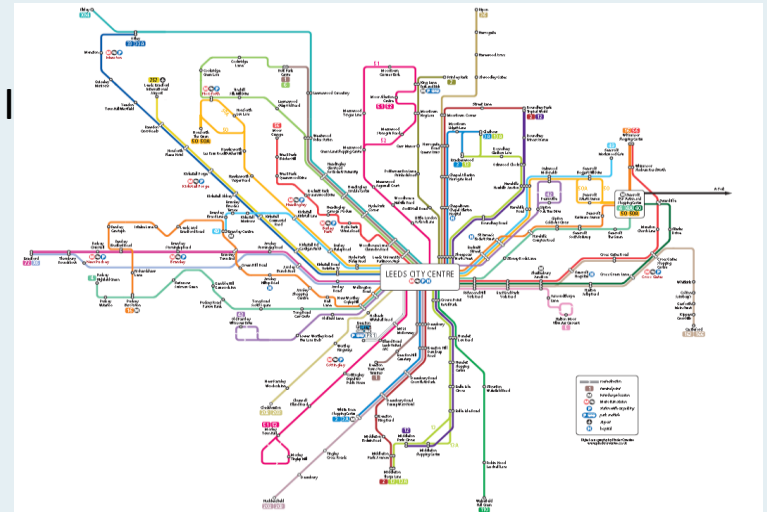
X2

aim to double bus
patronage in
Leeds by 2027

Bus Network Transformation – Bus Services

Established a **Bus Delivery Board** to oversee by 2020

- A “turn up and go” Core Network across the city, including early evenings
- A fleet of 284 new buses by First offering enhanced comfort, Wi-Fi, audio visual information and device charging facilities etc.
- Other operators investment offer in pipeline
- Affordable, simpler fares, which encourage bus travel especially amongst under people under 25
- Smart ticketing
- Real-time travel information
- Review of low frequency and local networks for community.



Bus Network Transformation - Bus Priority Corridors

Modern bus stop facilities



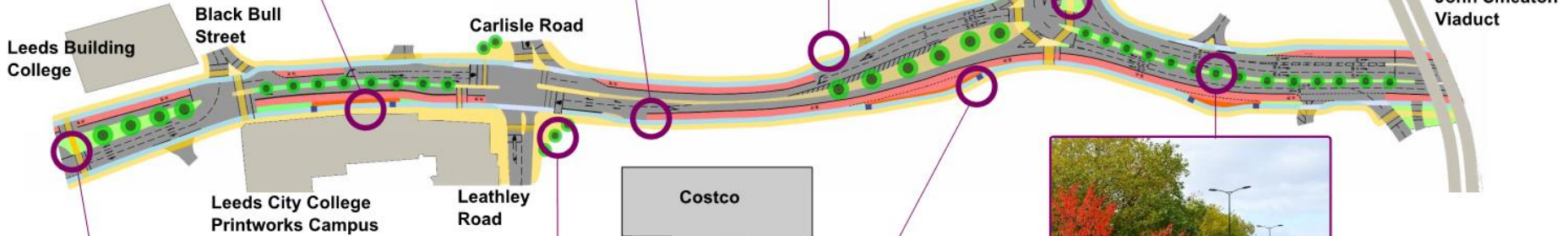
Bus Priority features including Bus Gates



High quality segregated cycle and pedestrian routes



Green pedestrian footways



South Accommodation Road

John Smeaton Viaduct

Leeds Building College

Black Bull Street

Carlisle Road

Leeds City College Printworks Campus

Leathley Road

Costco



Wide pedestrian crossings



Planting and feature lighting



Cycle lane bus-stop bypass



Tree lined Boulevards

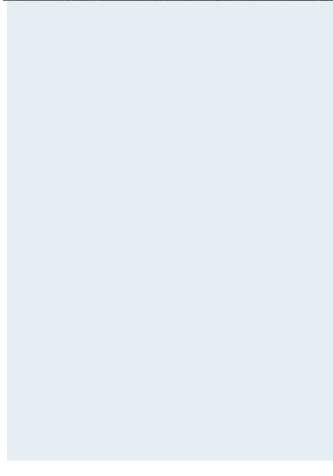
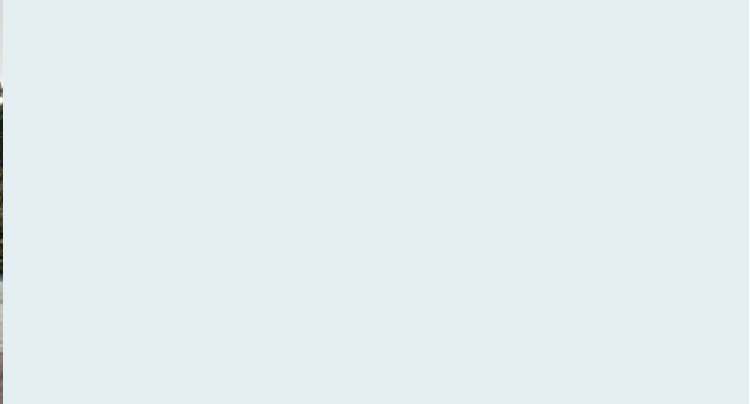
Legend

Highway	Paved Area
Bus Lane	Cycle Lane Zebra
Cycle Lane	Bus Stop
Footway	Grassed/Planted Area
Trees/Shrubs	

Plan for demonstration only. Does not represent final scheme proposals

Adapted from Ordnance Survey LA100019567


Bus Network Transformation - Bus Priority Corridors



West Yorkshire Transport Fund City Centre Package


1 A gateway to Leeds

Takes general traffic out of City Square allowing the creation of a world class gateway to the city




5 Maximising network efficiency

Highways England will deliver operational and capacity improvements to the M621. The council will improve the Inner Ring Road and Armley Gyratory



6 Connecting communities

Enhancements to connections with local communities adjacent to the city centre enabling pedestrian/ cycle linkages



2 High Speed ready

Facilitates the arrival of HS2 with proposals for a new shared concourse on Neville Street for the Leeds HS2 and Rail Stations



3 Diversification of the transport network

Some of the existing highway in the South Bank will be reallocated to cyclists, pedestrians and public transport



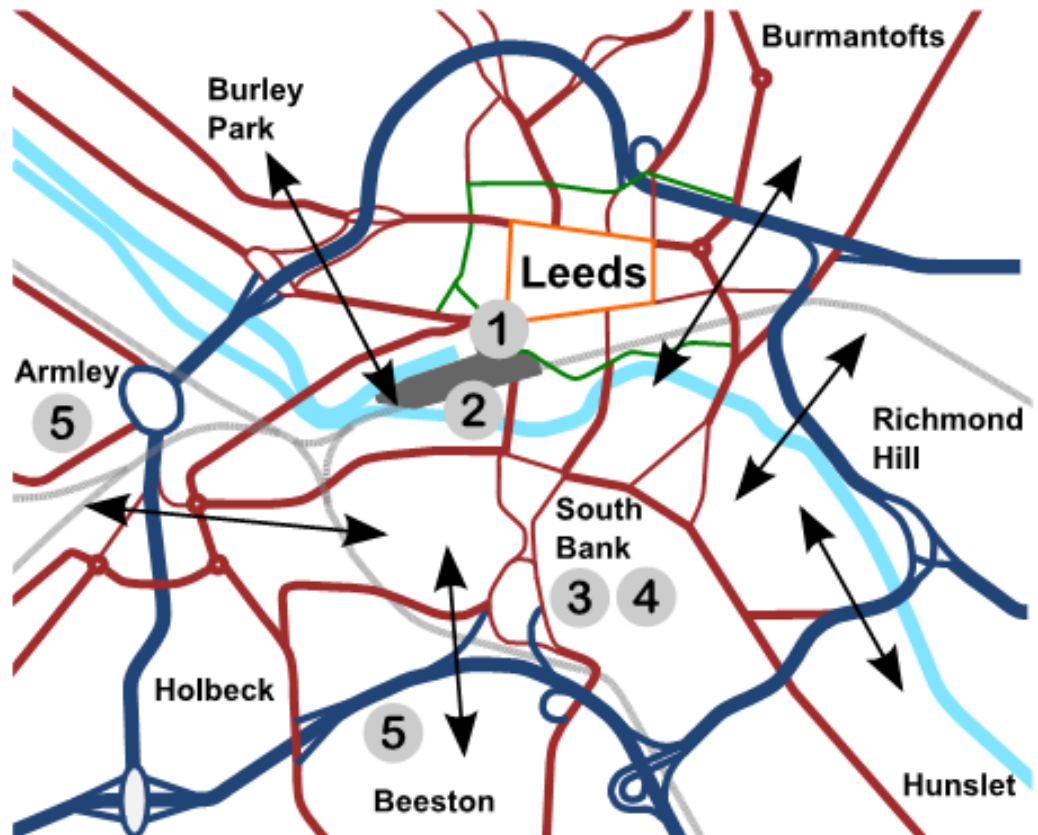
4 Extending the city centre

We're working closely with the South Bank Masterplan with improved street design which complements new areas of the city centre.



7 Creating a cleaner city

Improving how vehicles navigate around the city will improve the environment in the city centre, including air quality.

City Square Gateway to Leeds



safe clear crossings

public transport. pedestrians
safe. exciting. welcome
accessible. active. enjoyable
easy to find your way. new & old!

CITY SQUARE... ideas
INDICATIVE ONLY

Leeds Air Quality Action Plan

Identify the required measures to deliver compliance with Air Quality Standards

- increase use of sustainable travel E.g. bus patronage
- clean the public transport fleet E.g. First Bus pledge
- accelerate uptake of cleaner vehicles in the domestic market E.g. ULEV Parking permit scheme
- reduce emissions from industry, business & public sector
- building a low emission city E.g. CNG / Alternative Fuel Station
- improved promotion and profile e.g. Clean Air Leeds
- develop low emission capability
- model how these changes will improve Air Quality



Thank You

