

Transport for London



London's Bus Priority

Presentation to NACTO Workshop Introducing Corridor Bus Priority in congested urban environments

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- Background
- The Challenges
- London A decade of Bus Priority
- Achievements
- Case Studies
- Future Developments
- Summary



Tube Map



MAYOR OF LONDON

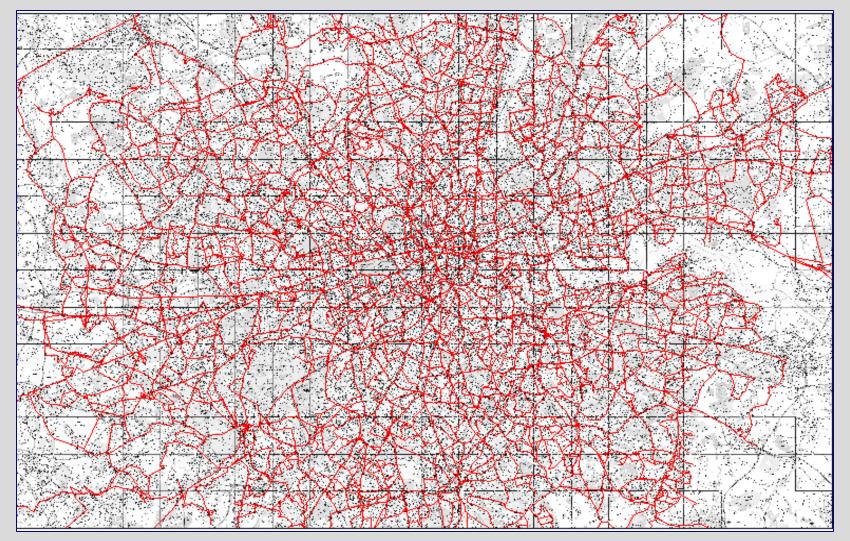




Transport for London







- One of the largest and most comprehensive urban bus systems in the world - 8,200 London buses carry about 6.5 million passengers on over 700 different routes each weekday (2.26 billion passengers / year)
- A regulated network administered by TfL

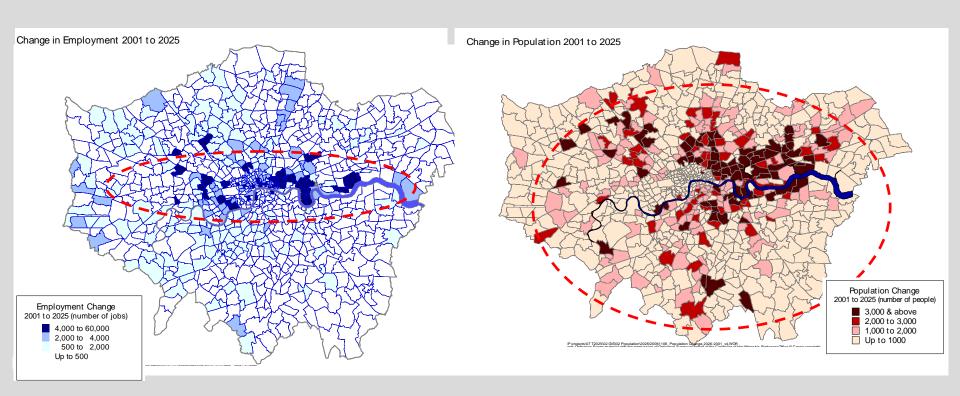


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Job and population growth will be in different locations



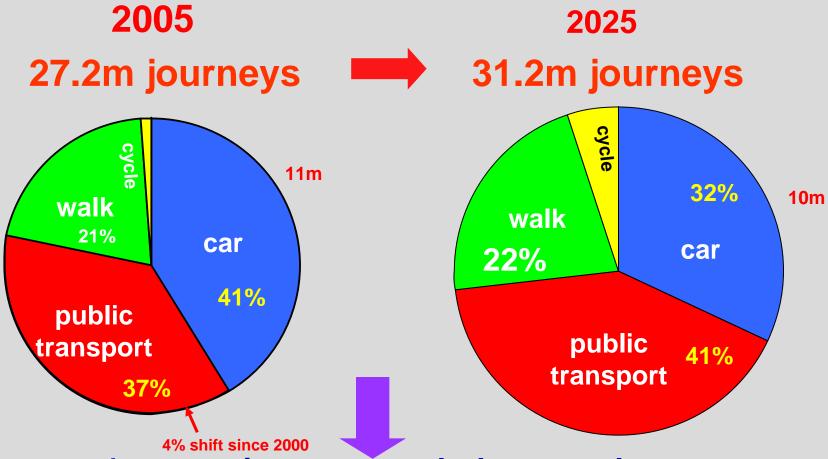
Source: Transport 2025 Nov 2006

Concentrated job growth in a central east-west corridor

Population growth across London



Travel growth will be significant

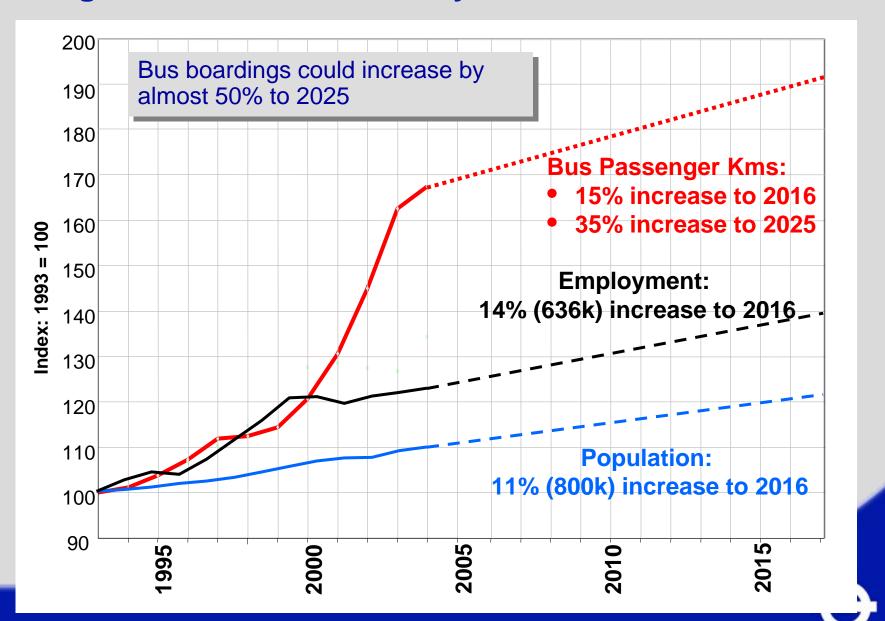


4m extra journeys each day must be supported by public transport, walking

Source:Transport 2025 Nov 2006 S5 Targets & cycling



ur challenge: more population, employment - and bus passengers over the next 10-20 years

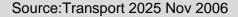




Bus - T2025 Vision Nov 2006

- The bus system will play a key role in supporting economic growth, tackling climate change and improving social inclusion
- The multi-purpose nature of bus is the only mode that can serve such diverse needs
- Prior to the delivery of new rail schemes, bus is the only feasible way to support London's growth
- And additional bus capacity will be critical as part of the complementary measures for RUC in the congestion and emissions reduction plan
- An additional 40% extra bus capacity will be needed by 2025
- Effective end-end bus priority measures will be a critical success factor

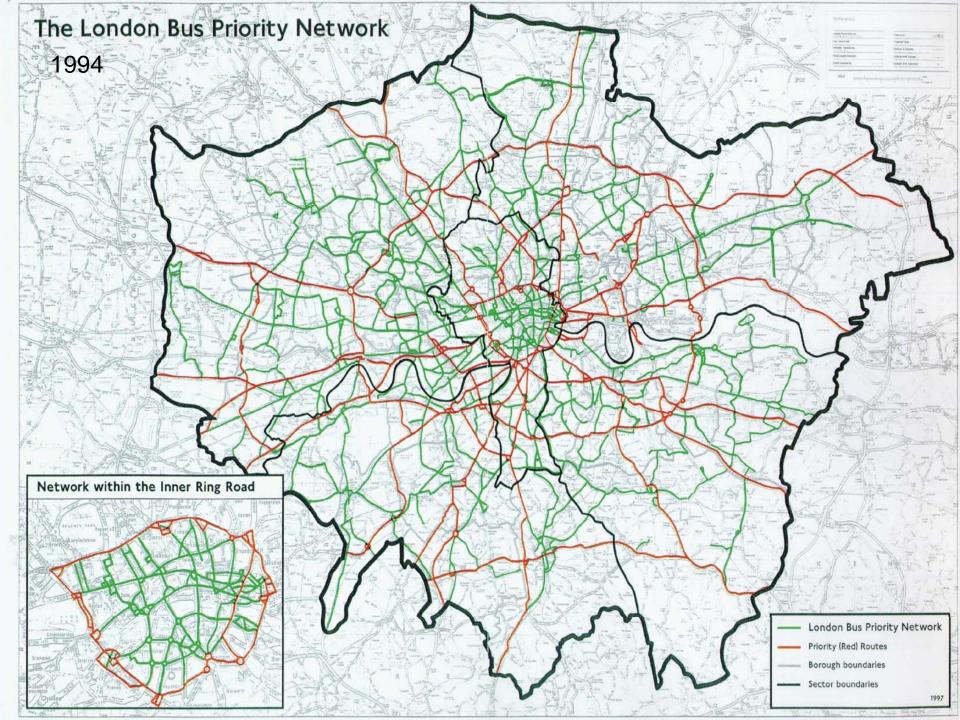




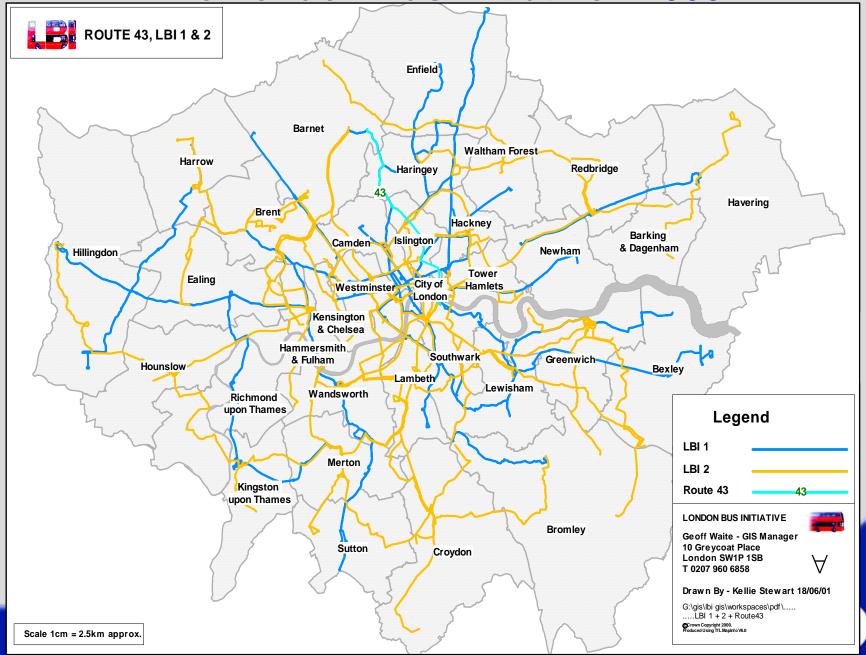


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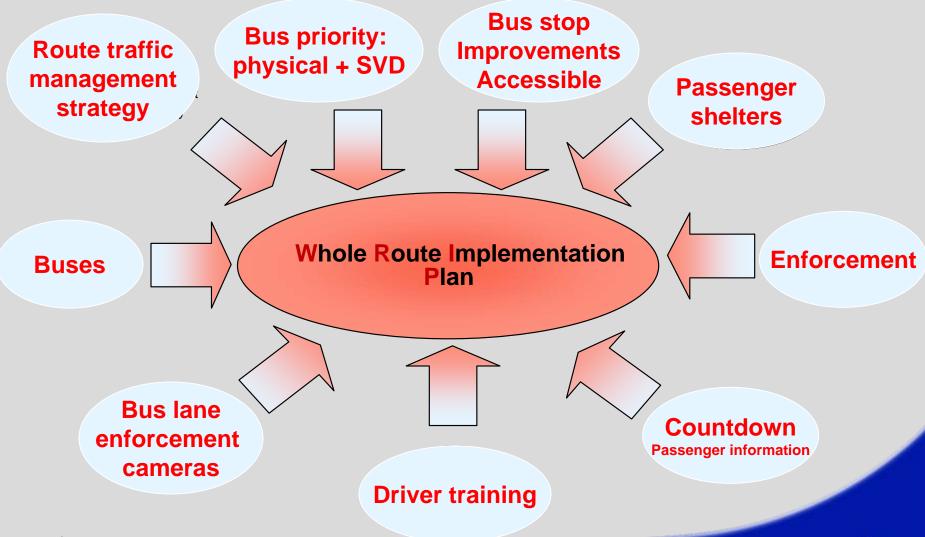




The London Bus Initiative - 2000



Overview: LBI whole-route approach

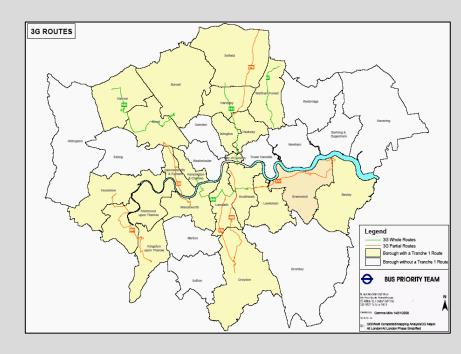




Third Generation Bus Priority (3GBP)

The Concept

- Bus priority "corridor management"
- •Partnership approach between TfL and LBPN representing London Boroughs (builds on previous relationships developed through LBI 1 and 2.
- •10 year programme treating up to 36 routes 10 routes to be taken forward in Tranche 1
- •Benefits up to 60 coincident routes



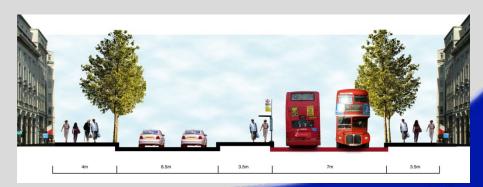




Bus Priority Elements used in 3GBP

- Traffic management delivery plan
- Partnership of Safety, cycling, walking, urban realm along bus route
- Strategic Urban Realm Plan
- Route enforcement plan and operation
- Kerbside control plan with inset parking & loading bays
- Route traffic signal control plan incorporating SVD
- Freight and access plan (incl Servicing & Taxis)
- Bus operations plan adjusting bus schedules to capture journey time improvements
- 'Track management' plan & operation on-going benefits management







Business Case: "Do Something"

KEY FACTS

£81m over 5 year period (2008 – 2013)

Benefits of the "do something" plan:

- Net Financial Effect (NFE) is positive at £47.3m over 10 years
- Proxy BCR greatly exceeds TfL min standard of 1.5:1
- 77% of Tranche 1 benefits delivered by 2013
- Benefits of £609.3m over 10 years
- £12m of Safety Benefits in first five years of programme
- Meets social inclusion and accessibility objectives
- Walking & Cycling improvements
- Public Realm



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LBI Delivered (1)

- Measures helping passengers 'in bus'
 - Over 100 new bus lanes
 - Over 100 bus lanes improved in length/time
 - Signal priority (SVD) at over 300 junctions
- Measures helping passengers 'to bus'
 - 50 signal pedestrian facilities
 - 50 junction 'all greens' for pedestrians
- Measures helping all vehicle users
 - 146 physical signal junction modifications
 - plus over 200 further signal timing changes

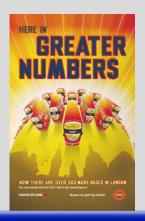


LBI Delivered (2)

- Passenger Information
 - 981 bus stops have Countdown
 - Over 300 bus stops have spider maps



 Of the 2,500 bus stops on the 27 LBI routes 40% had shelters installed or renewed for improved passenger comfort. 72% of these stops now have shelters



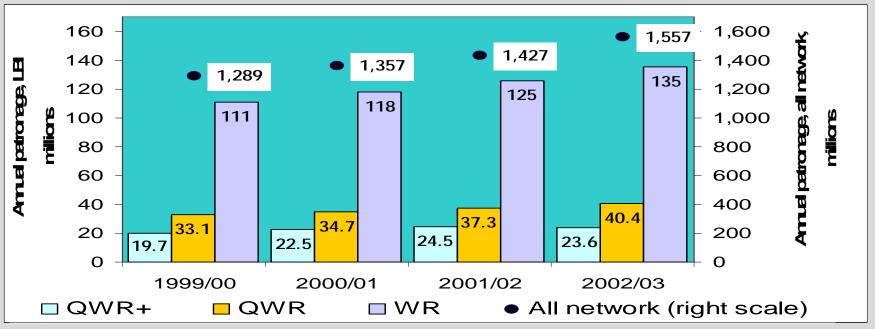


Delivered (3)

- Operational improvements
 - New accessible low floor buses
 - BTEC driver training programme running
 - New Quality Incentive Contracts for bus cleaning
- Enforcement
 - 30 SLA agreements signed with Local Authorities
 - 92 additional attendants
 - Over 200 new borough CCTV cameras
 - 1 in 6 buses have bus lane cameras



Bus Priority Outcomes From LBI 1



Annual patronage: LBI routes' (left scale) & all network (right scale)

Annual patronage on all 27 LBI routes

- Increased by 22.1% from 163 million pa to 200 million pa (compared with a network-wide increase of 20.8%)
Financially positive benefits: £12.0 million pa plus bus passenger benefits





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Route 38 - web site - www.busroute38.co.uk





Route 38 - Bloomsbury

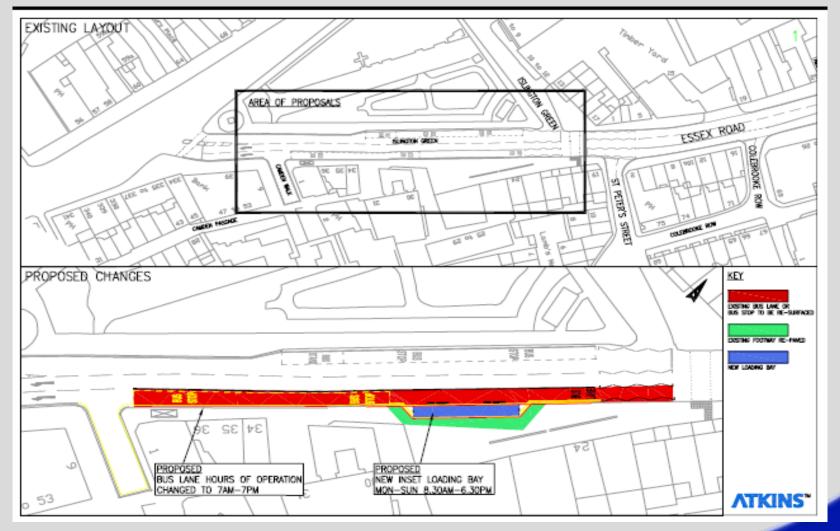








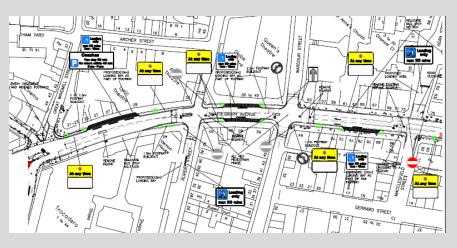
Route 38 - Essex Road

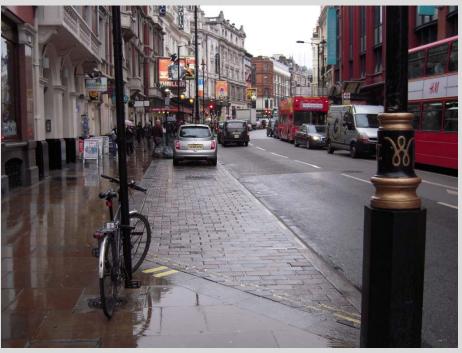




Route 38 - Shaftesbury Ave (Theatre land)





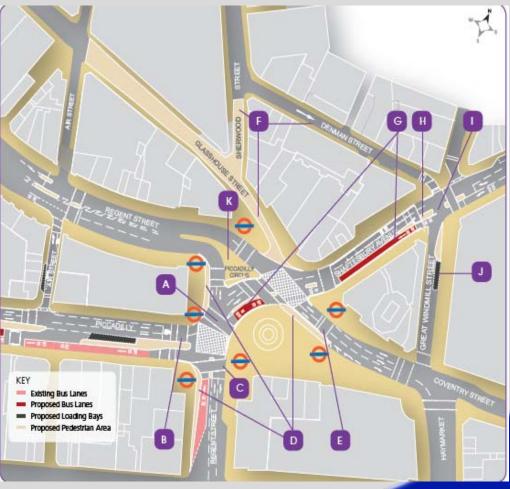


- Footways widened & re-paved
- Inset Loading bays
- Traffic Calming speed Tables
- Pedestrian Crossings
- £1.05M



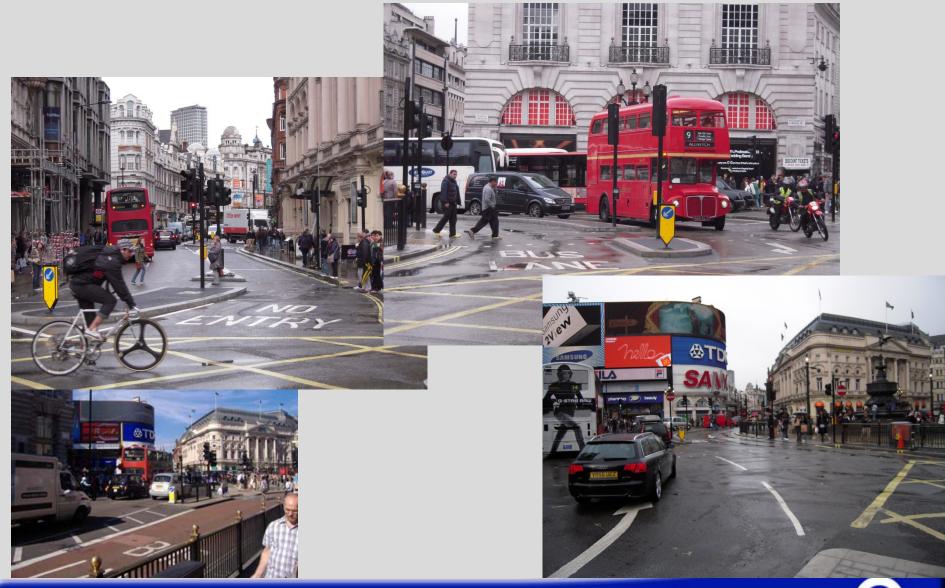
Route 38 – Piccadilly Circus







Route 38 – Piccadilly Circus





East London Transit - Opened Feb 2010





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Traffic Signal Technology - Differential Priority

- Builds on new iBus GPRS system
- Priority is given according to the individual requirements of buses
- Varying levels of priority given depending upon need (e.g. late bus)
- Could target higher occupancy buses
- Improves punctuality/regularity and reduces passenger waiting times
- Less impact on non-priority traffic (as fewer buses awarded priority)





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Summary

- 1236 Bus Lanes 300km
- Improved JT and Reliability for buses saving £30M per annum (+ £20M pax)
- Helped achieve modal and climate change targets 5% modal shift Car2Bus
- 80% Londoners (90% Cyclists) support bus priority and bus lanes
- Multi modal corridor schemes offer increased benefits through integrated interventions
- Effective community engagement key



Questions



