

# ***RAILFUTURE CONFERENCE***

***Shoreditch Town Hall***

***Saturday 13<sup>th</sup> November 2010***

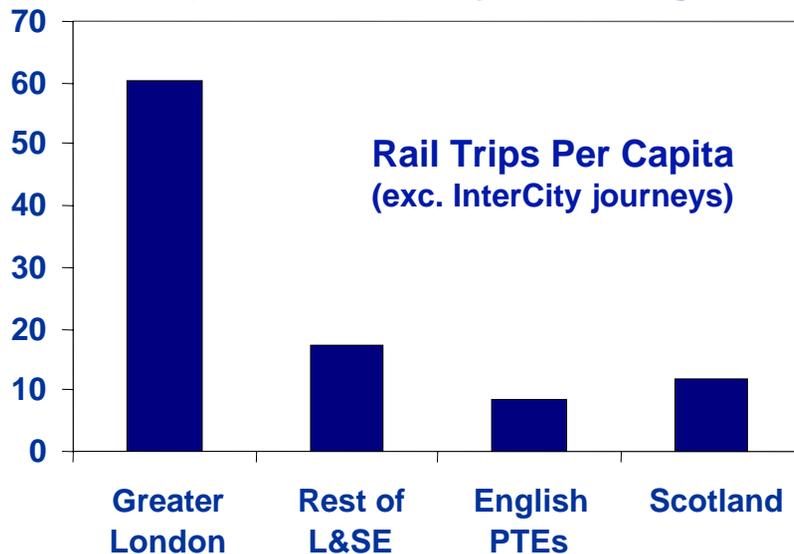
**Ian Brown BSc FCILT**



# Importance of the rail network

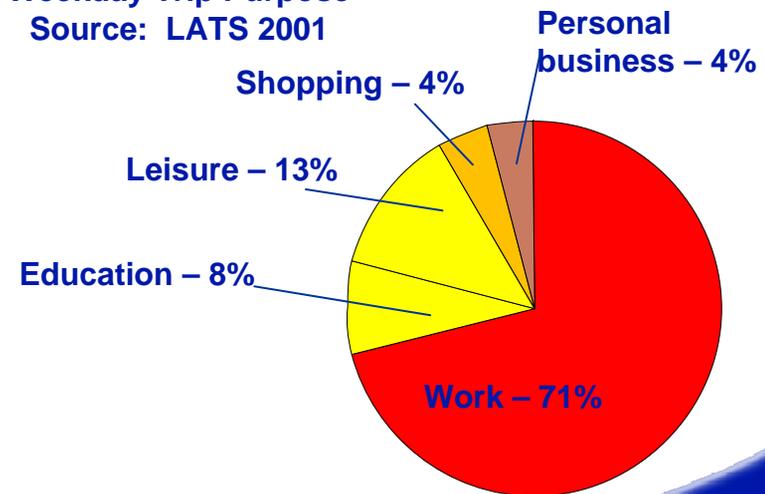
- Londoners also rely on their rail network to a greater extent than any other areas of the country
  - 30% of National Rail journeys are entirely within London
  - 50% of all rail journeys are made by Londoners
  - 70% of all National Rail journeys start or finish in London

## Londoners make more rail trips per capita than in any other region



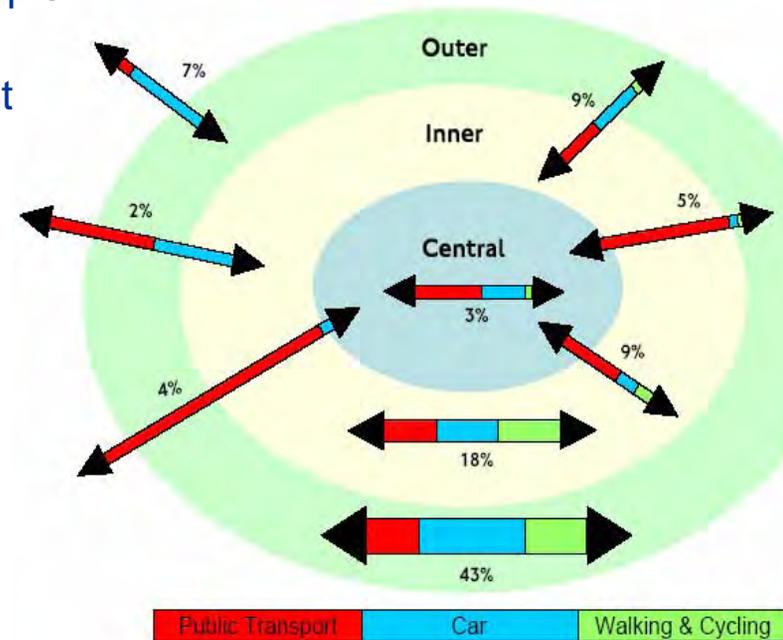
## ... and rely heavily on rail for access to work / education

Weekday Trip Purpose  
Source: LATS 2001



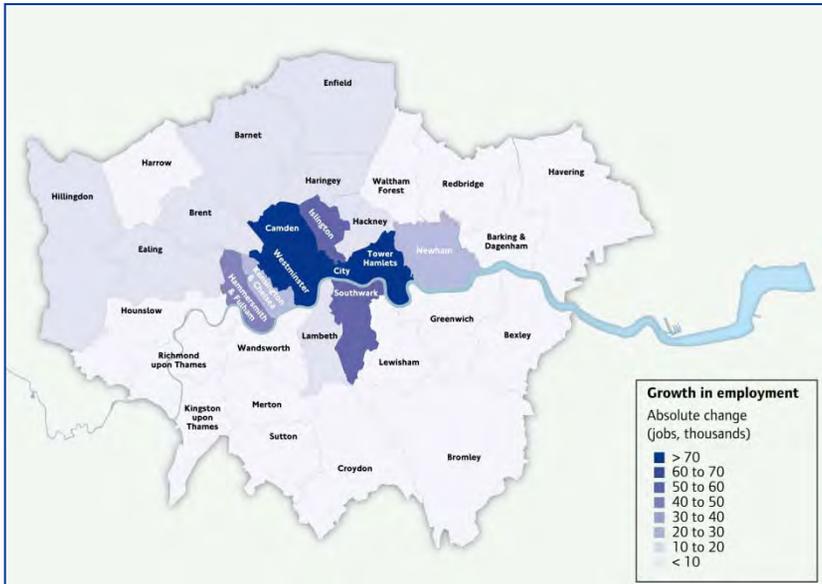
# Travel Demand Patterns

- Current travel demand patterns show that public transport's role is greatest in radial trips:
  - More than 1 million trips to central London each morning
  - Public transport carries 87% of people to central London
  - 12 million trips in outer London, just 25% by public transport

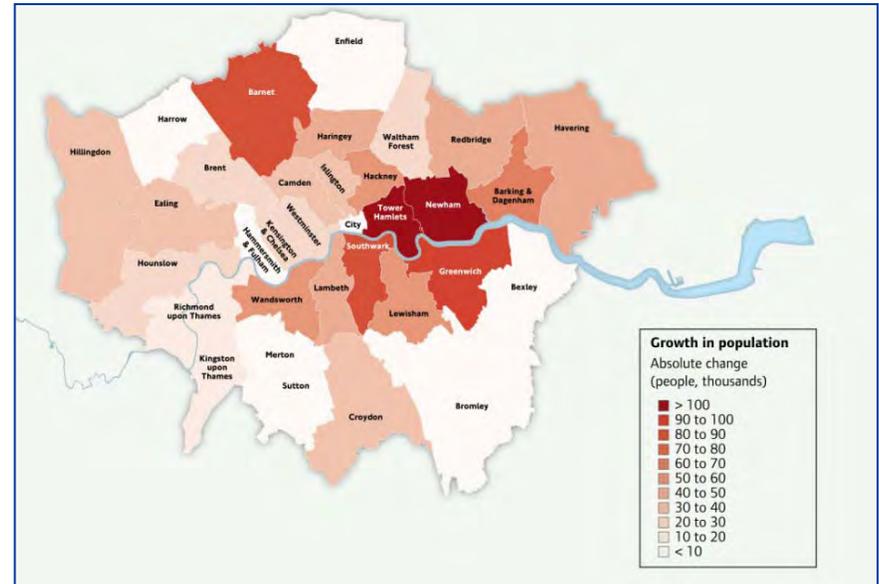


# London's Growth

## Projected Employment (2001 – 2031)



## Projected Population Growth (2001 – 2031)



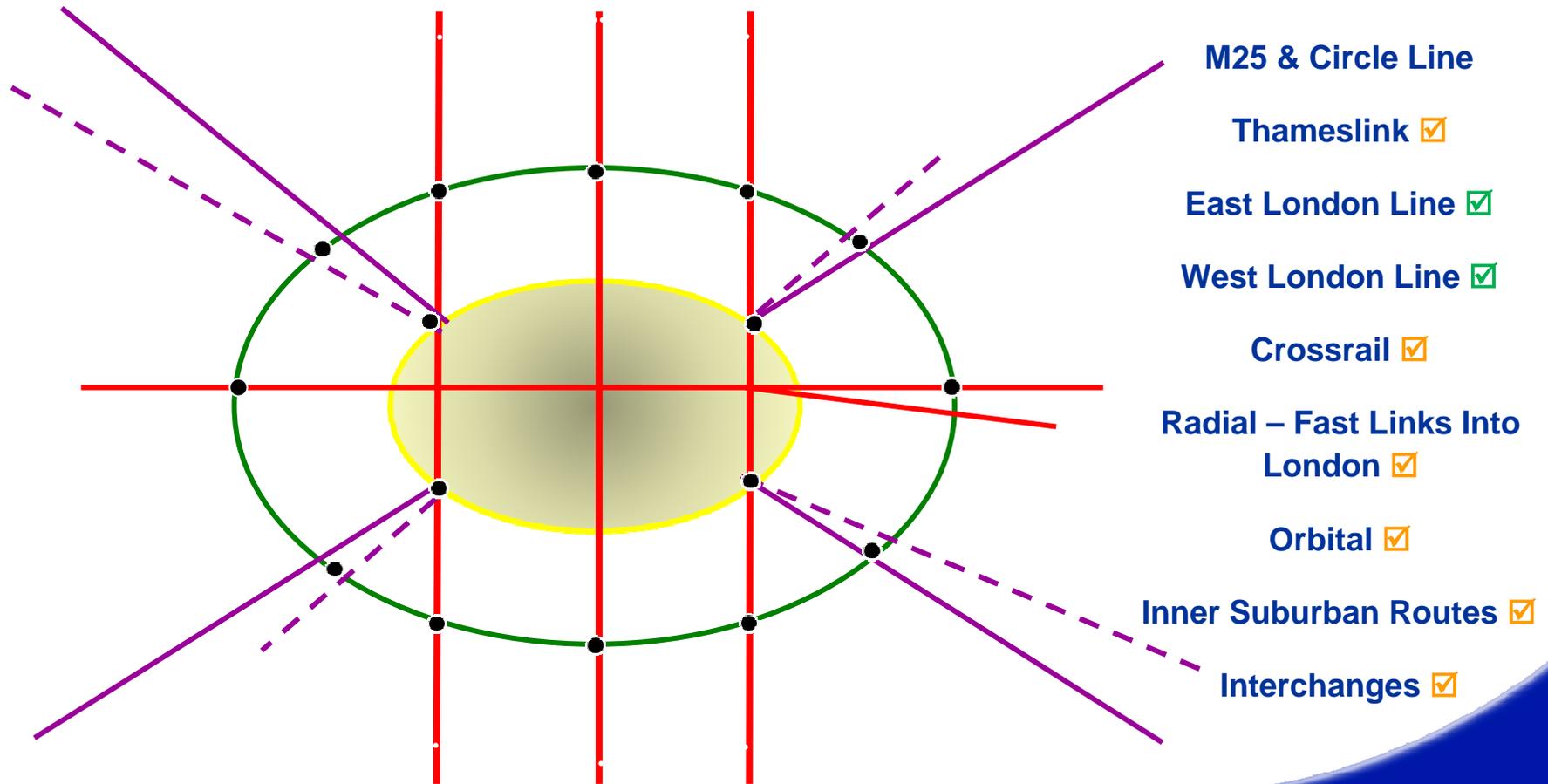
- +750k by 2031
- Short-term affected by recession but not long-term

- +1.3m by 2031
- Typically in different places from employment

- 40 – 50% more rail trips over the next 20 years, due to type & distribution
- London to grow by the size of South Yorkshire
- By 2031, 15% more trips overall

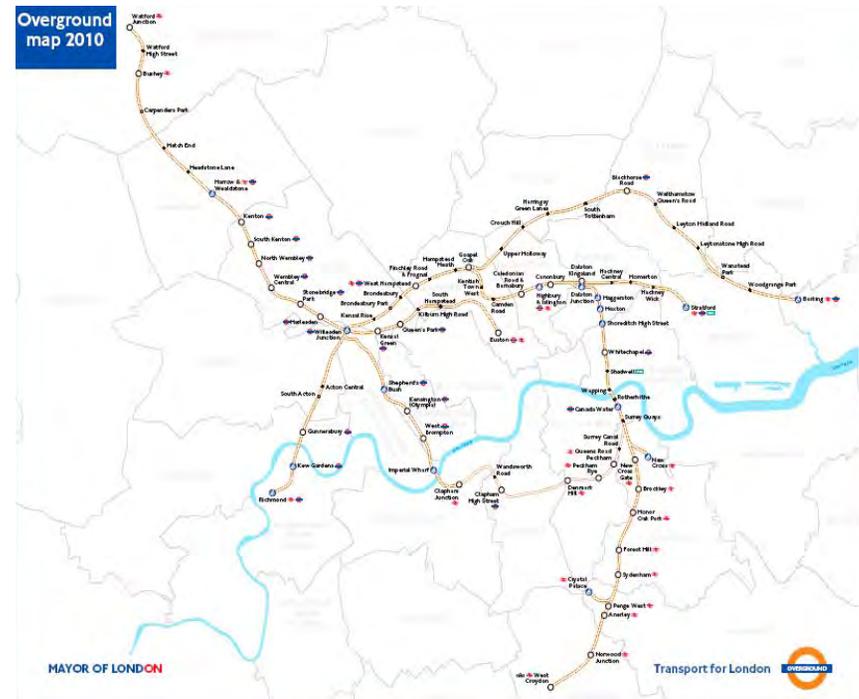


# The Big Challenge: Capacity, an integrated Vision for Rail in London



# An Orbital network for London

- DfT transferred responsibility to TfL for 'Silverlink Metro' services in November 2007
- Nothing less than a new 'mode' for London
- £1.5 billion investment programme (funded outside of HLOS)
  - East London line
  - North London Railway infrastructure project
  - New trains; Tube-style service
  - Refurbished stations
  - South London line





# East London line Extension

- A new bridge at Shoreditch High Street was designed to high environmental standards – completed March 2008



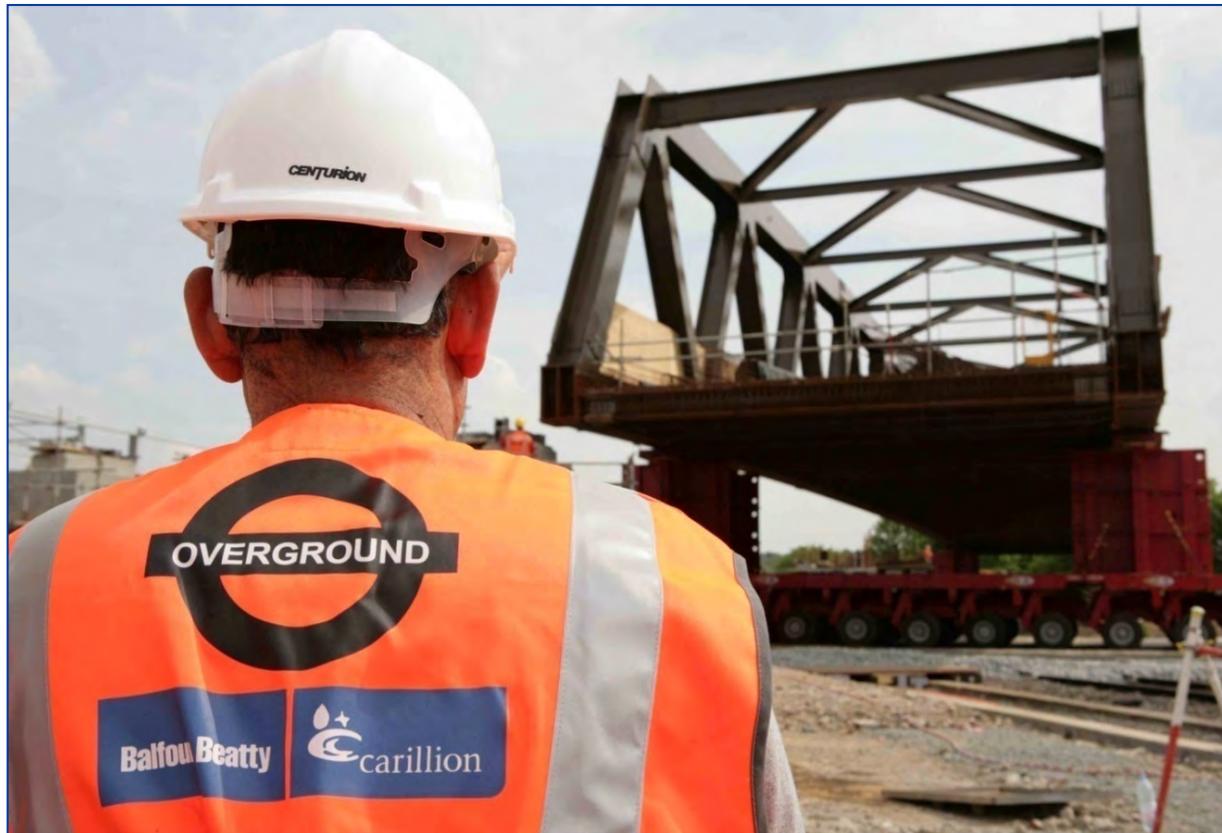
# East London line Extension

- GE19; A new bridge over the Great Eastern Main line at Liverpool Street (east London) – completed May 2008



# East London line Extension

- New Cross Gate Flyover; To connect the East London line extension onto the National Rail network south of the River Thames – completed May 2008



# Building a new line through London



# New Trains

- New electric fleet (Class 378); incorporating regenerative braking (i.e. returning electricity to the grid when braking, saving approx. 20% of energy consumed)
- New diesel fleet (Class 172)
- Provides dramatic improvement in capacity as well as ambiance, reliability & air conditioned
- Provides for a cascade to improve capacity in south & south west England



# New Trains – Class 378



# East London Line – Hoxton Station



# East London Line – Whitechapel Station



# Start of ELL 'Preview' Service – 27<sup>th</sup> April 2010

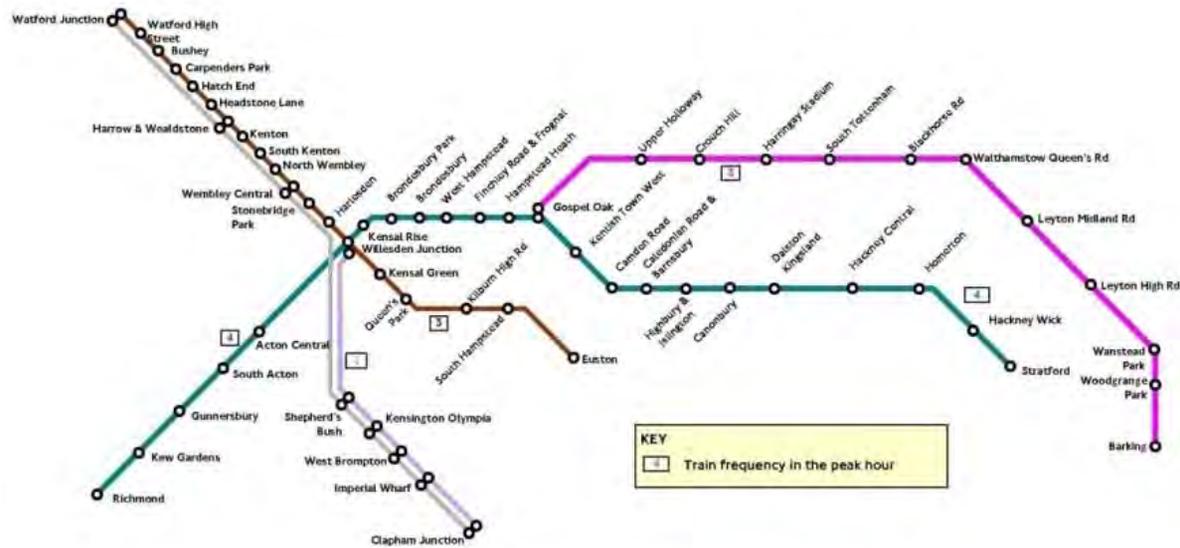


# Start of ELL 'Preview' Service – 27<sup>th</sup> April 2010



# North London Railway Infrastructure Project

- Delivers higher frequency services pattern
  - Doubled frequency on the 'core' North London Railway to 8 trains per hour (tph)
  - 6tph, Stratford – Willesden
  - 4tph, Gospel Oak – Barking and the West London line
  - 8tph, on East London line to Highbury & Islington
- Infrastructure improvement works completed in June 2010
- Signalling & track upgrades to be completed for a full service in May 2011



# North London Railway Infrastructure Project



# North London Railway Infrastructure Project

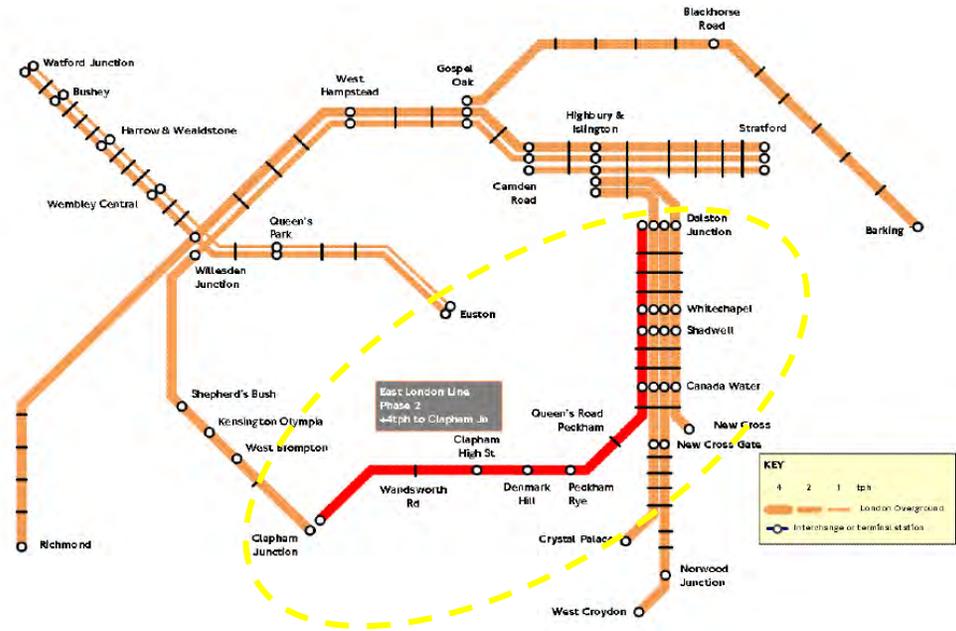


# North London Railway Infrastructure Project



# Completing the Orbital – The new South London line

- Low cost, £75 million to complete an orbital railway in London
- DfT funding confirmed in advance of the spending review
- Links key areas:
  - Clapham Junction
  - The City, via Shoreditch High Street
  - Canary Wharf via Canada Water
- Takes journeys out of the central London 'Tube' system
- Complete quickly, before London 2012 Olympics



- Should we stop here?



# Docklands Light Railway



MAYOR OF LONDON

Transport for London



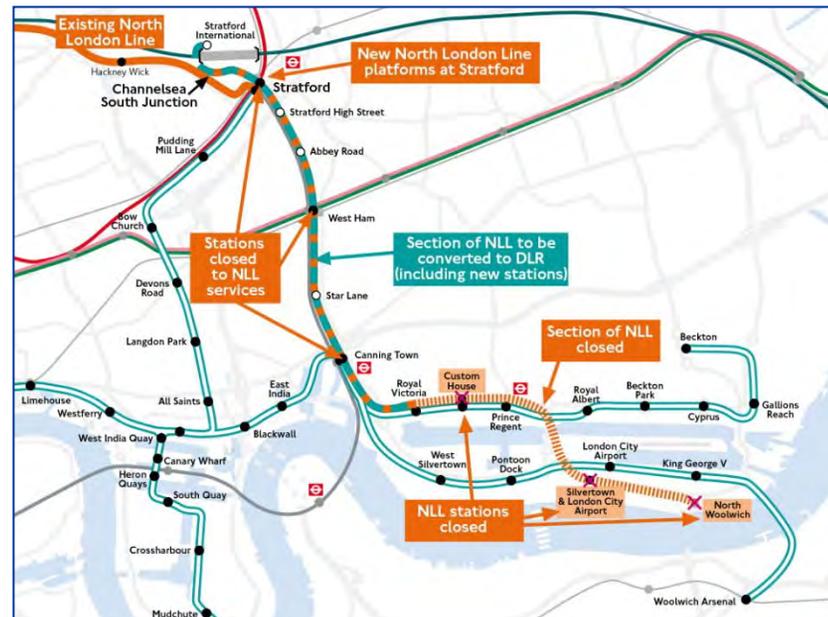
# Docklands Light Railway

- 20 years of operation
- Operations franchised to Serco since 1997
- Second franchise started in 2006
- An accessible railway
- Very high levels of reliability, customer satisfaction and performance
  - Departures - 99%+
  - Reliability – 98%
- Passenger growth from 8 million to 67 million in 18 years – forecast to grow to 100 million by 2012
- Recent extensions funded as PFI – delivered on time and on budget
- Clear focus on regeneration and improving access for local communities



# DLR Extension – Stratford International

- Interchange with High Speed 1 at Stratford International
- Improves access to major development areas in Lea Valley and services local communities
- New 6km DLR line with 4 new stations
- Uses old National Rail infrastructure
- Currently under construction
- Open mid-2010



# DLR Capacity Improvements

- 3-car operation; 50% increase (to 87m long trains – same as the London Underground Circle line)
- Station enhancements and structural modifications
- Objective is to accommodate increasing passenger numbers
- New station at South Quay
- Work started May 2007
- Due for completion 2010





# London Tramlink

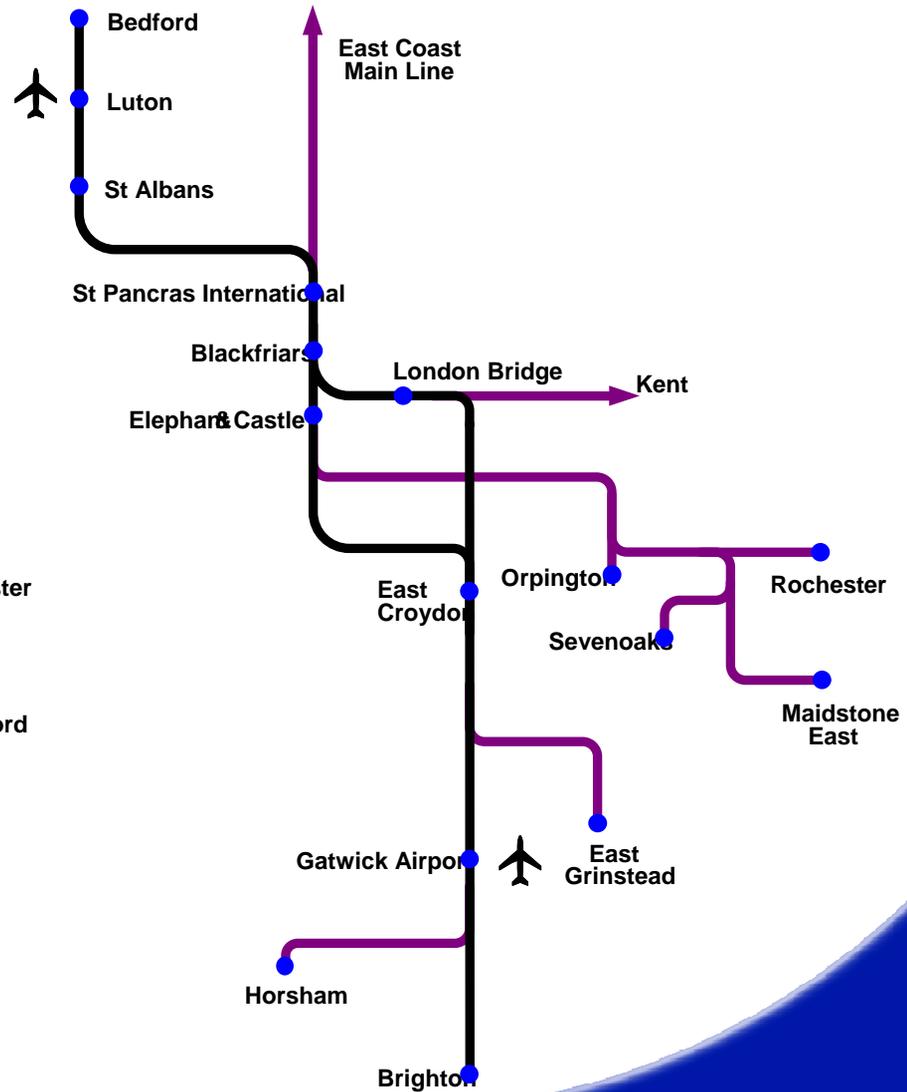
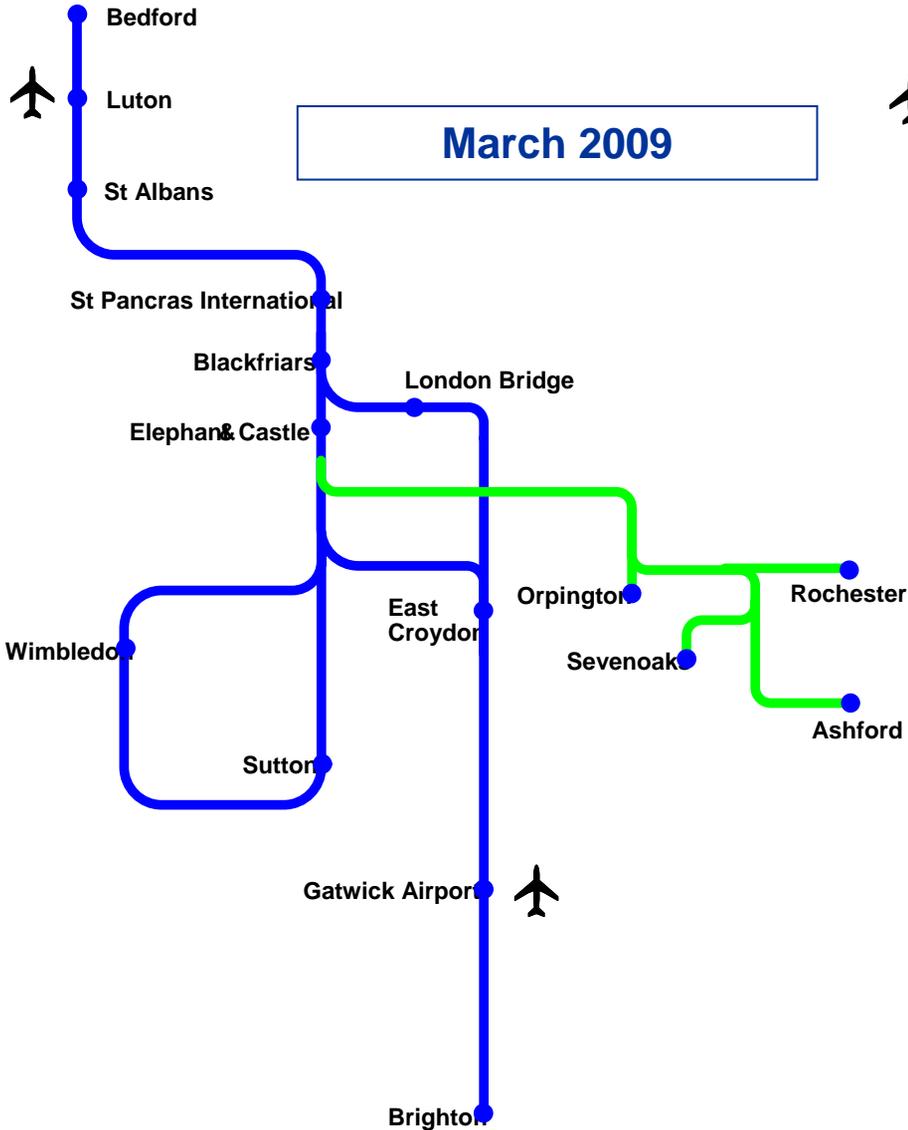
- Improvements since TfL took over in June 2008
  - Immediate
    - Deep clean, vegetation clearance, fence repair, litter picking, graffiti removal, signage replacement
  - Long-term
    - Refresh vehicle interiors, rebranding exterior of vehicles, refresh and rebrand tram stops, information / signage upgrade
- Programme of capital investment
  - Renewal of systems and track works
  - Upgrades to vehicles and stops
  - Capacity enhancements (more trains, longer platforms, double tracking, extension to Crystal Palace)
- Tramlink Horizon study (10-year development programme) underway



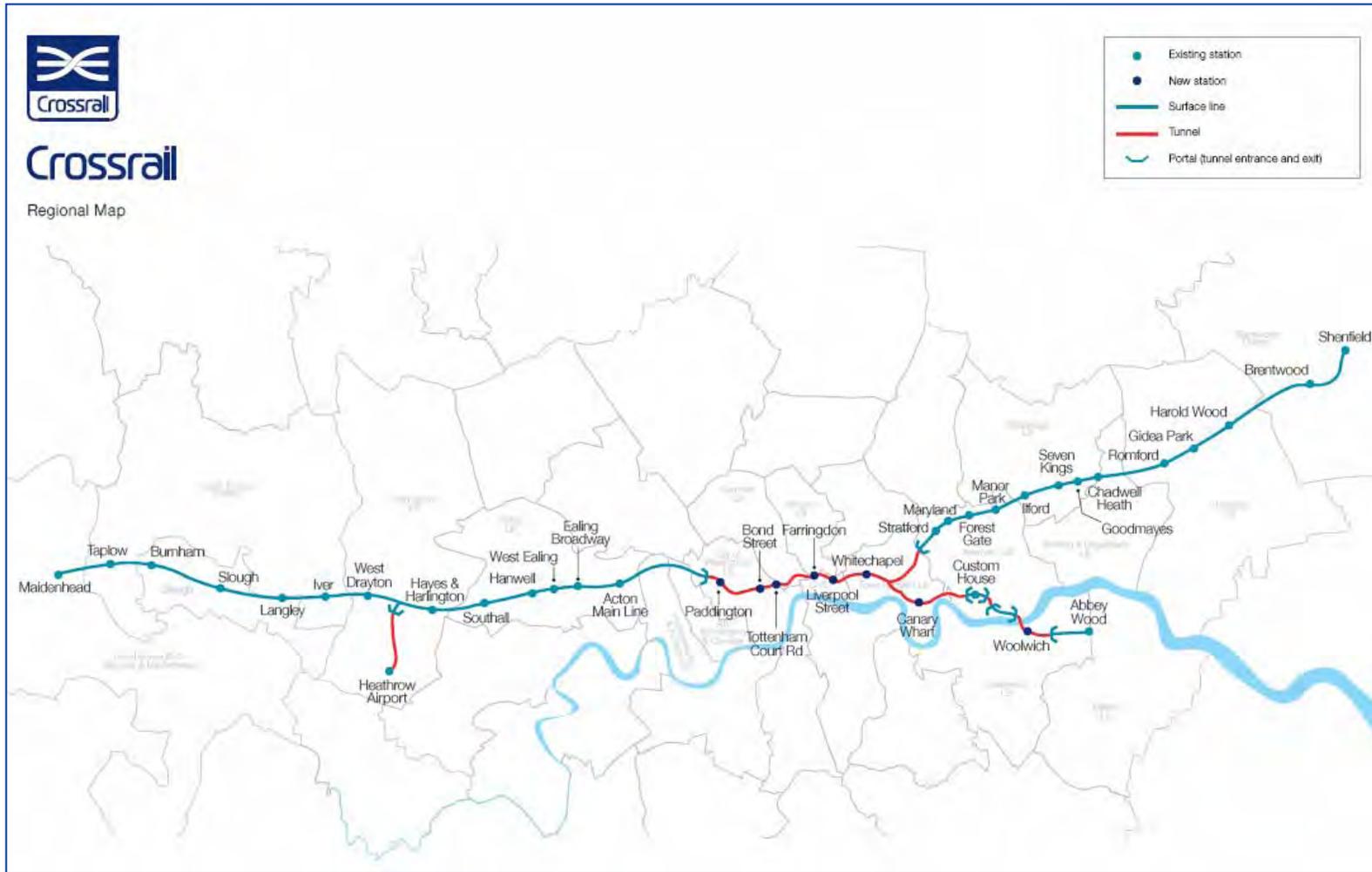
# Thameslink

March 2016

March 2009



# Crossrail is key to an integrated rail network for London



# The Challenge

- To maintain London's world class economy by providing an integrated rail system for the City
- 750,000 more jobs by 2031
- 1.3m more people by 2013



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