

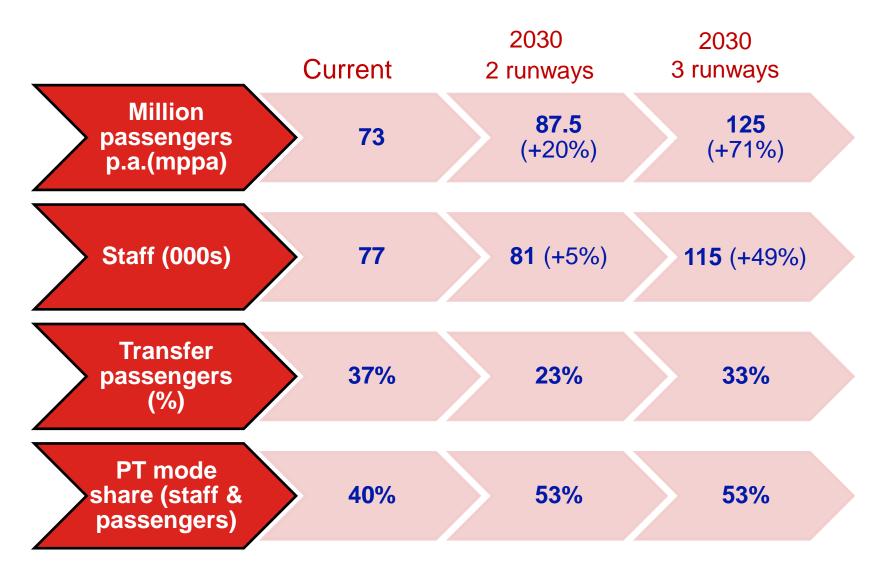
Introduction

- Airports Commission's (AC's) Final Report published in July 2015
- AC recommended a 3rd runway at Heathrow with an integral package of conditions
- Government decision on airport expansion this year
- This presentation provides TfL's view on the AC's analysis and conclusions
- The presentation:
 - summarises the AC's assessment
 - identifies TfL's concerns
 - sets out TfL's conclusions on the implications for London

The Airports Commission's assessment



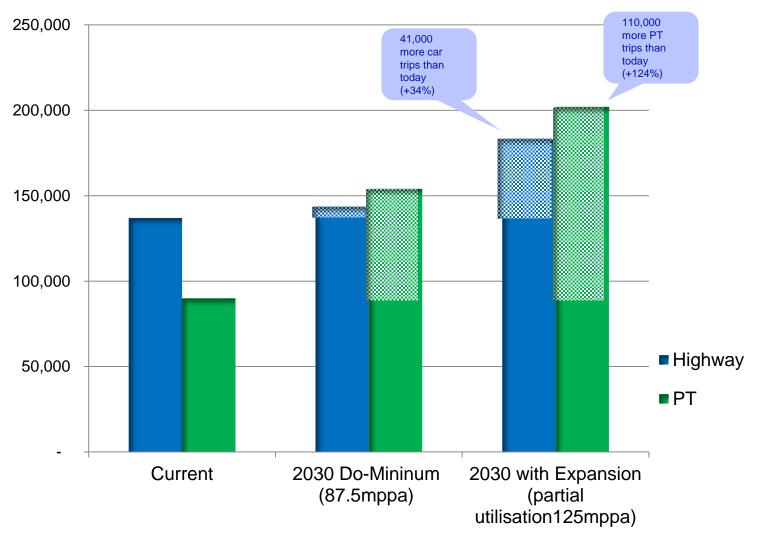
The AC uses a number of assumptions to assess the surface access impact of a 3 runway Heathrow





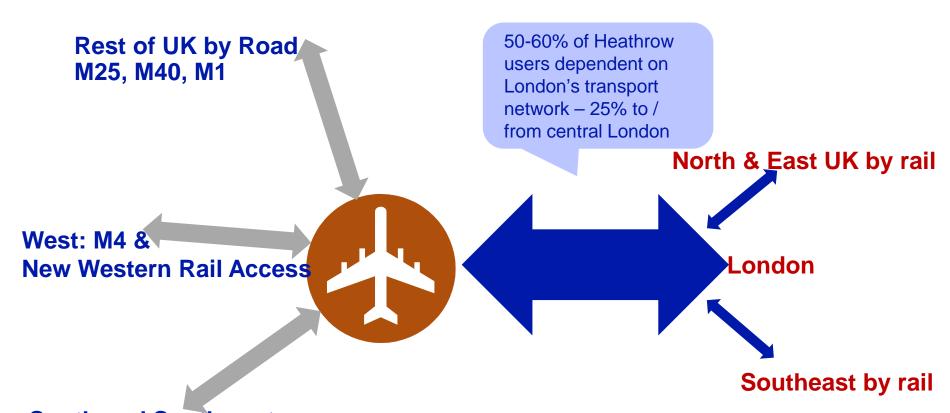
The AC estimates this will lead to over 100,000 more trips on public transport a day compared to today...

Heathrow daily demand forecasts using AC's assumptions



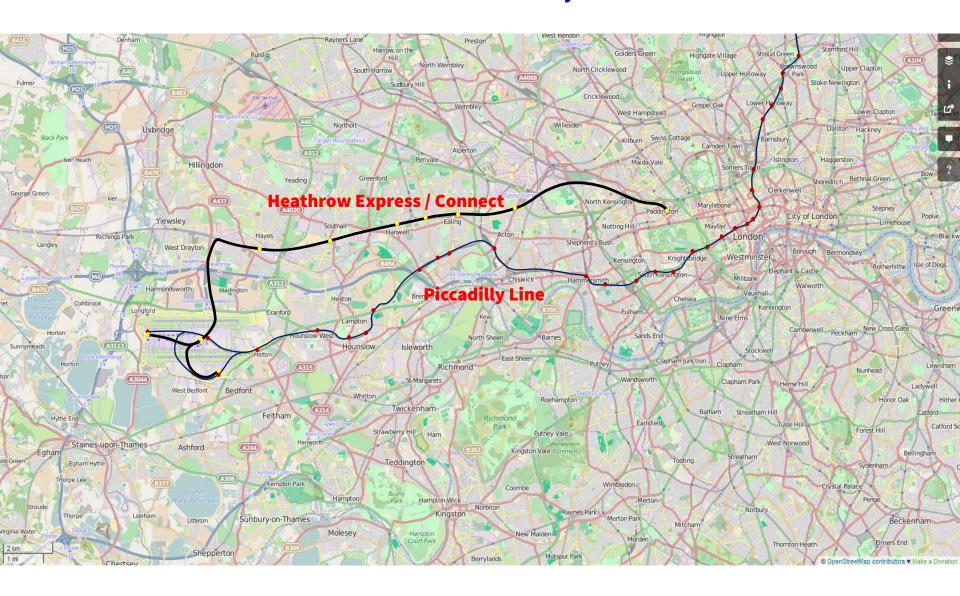
The majority of Heathrow airport's passengers and staff currently use London's transport network

The AC forecasts at least half of future passengers will travel through London with a a similar proportion for staff

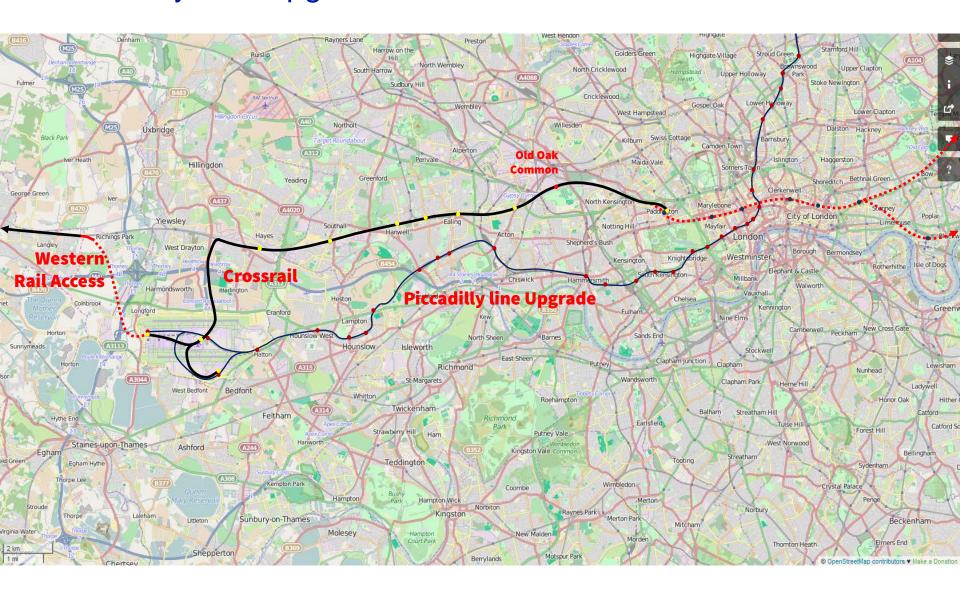


South and Southwest: M3, M25 & New Southern Rail Access

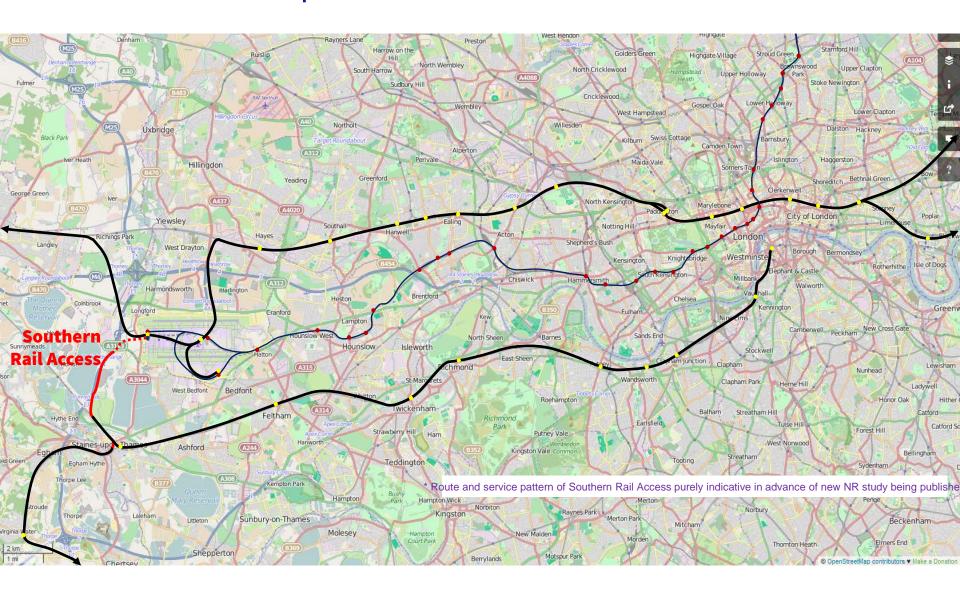
Heathrow is currently served by Heathrow Express, Heathrow Connect and the Piccadilly Line



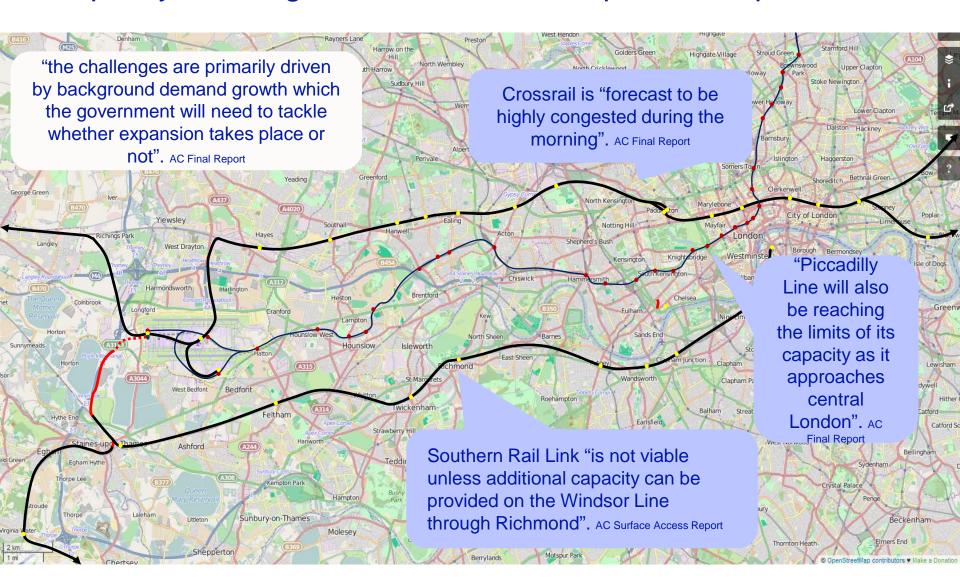
Without a third runway, it will benefit from Crossrail, the Piccadilly Line upgrade & a new Western Rail Access



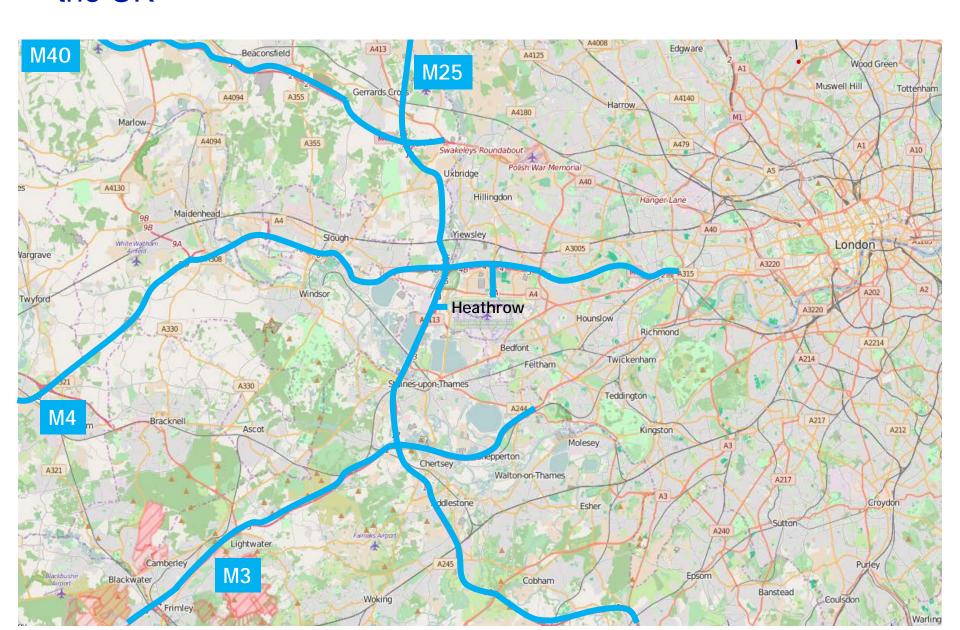
With a third runway, the AC indicated that a Southern Rail Link would be required



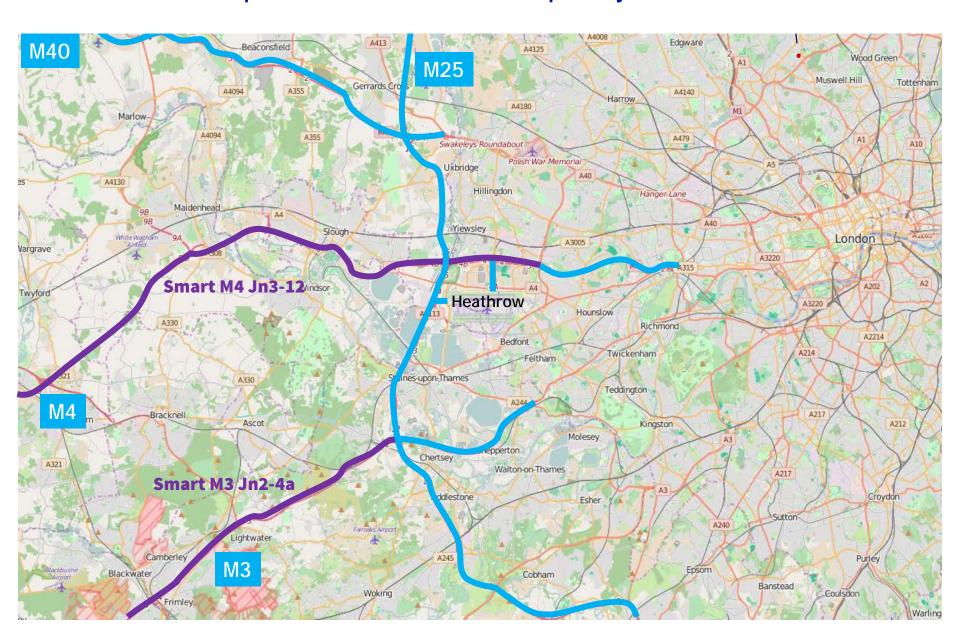
However the AC indicates there will be significant rail capacity challenges in 2031 with an expanded airport



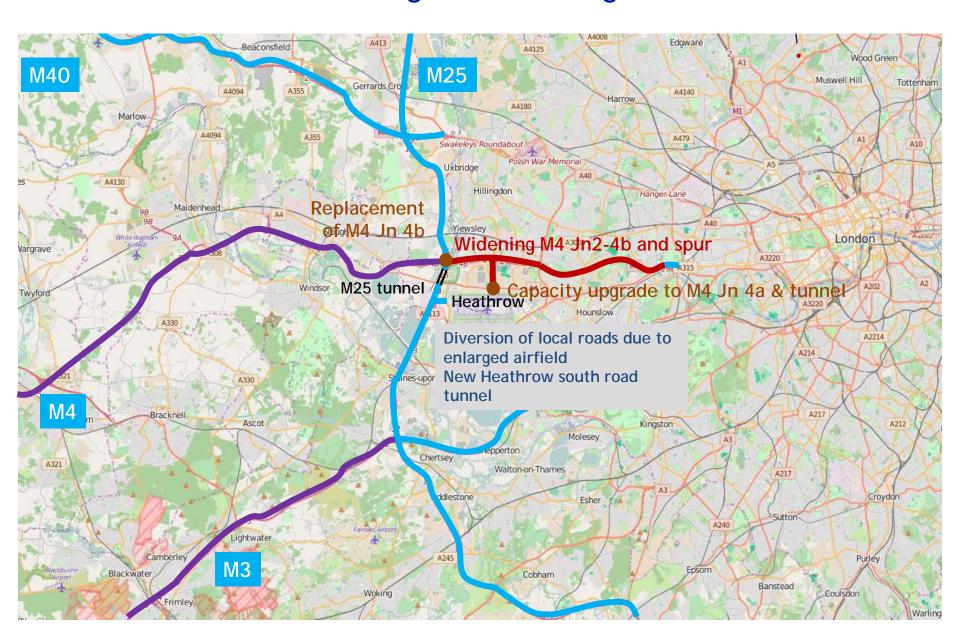
Heathrow is connected to some of the busiest motorways in the UK



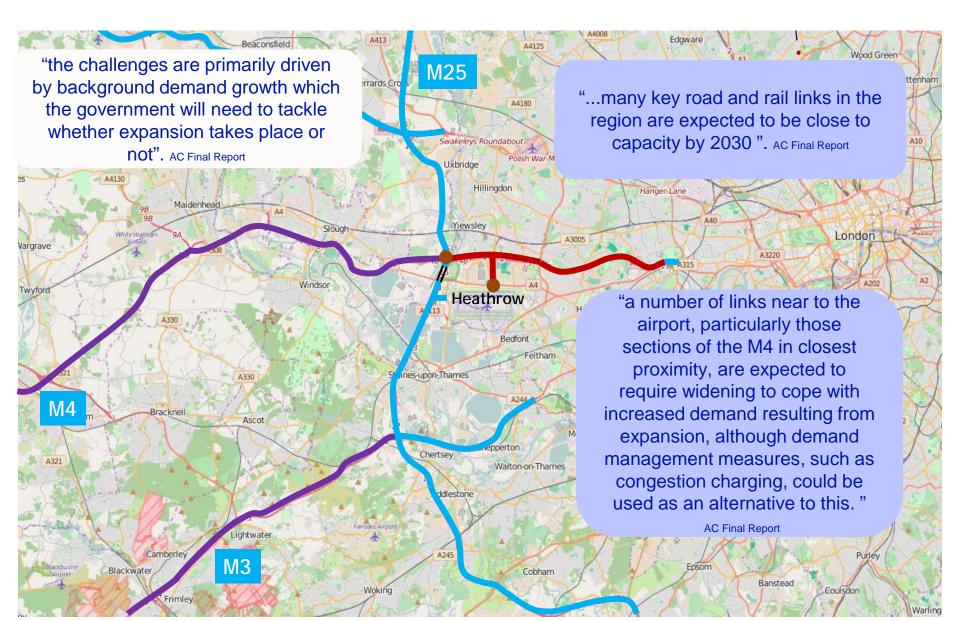
Without a third runway, smart running on the motorway network is expected to increase capacity on the M3 & M4



With a third runway, the AC indicated that the M4 would need to be widened along with enabling schemes



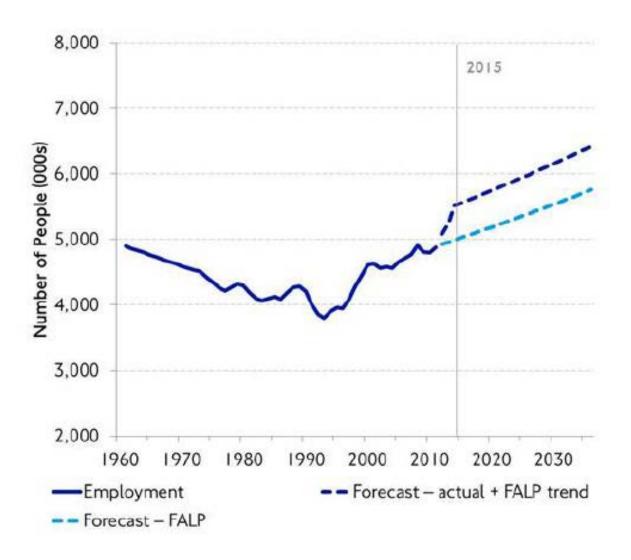
However the AC indicates there will be significant highway capacity challenges in 2031 with an expanded airport



TfL's concerns with the AC's assessment



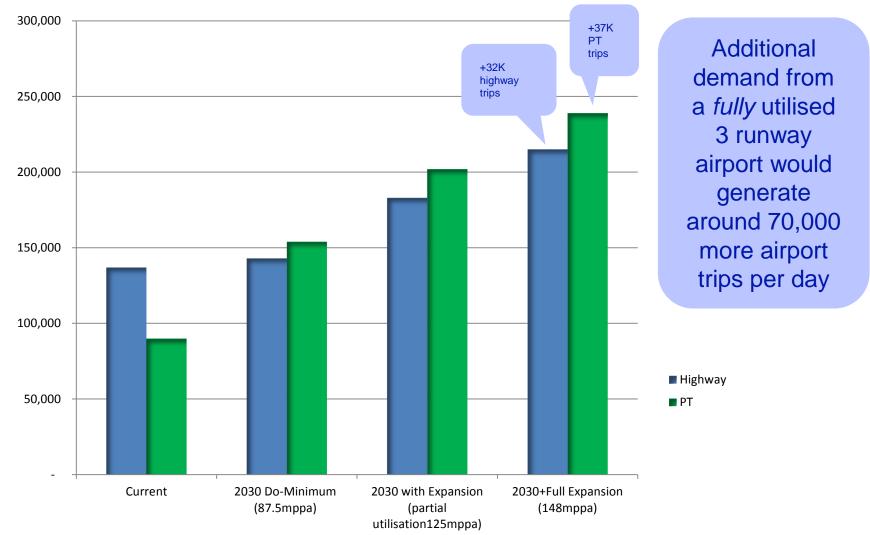
Background travel demand will be higher than assumed by the AC with the GLA's new interim employment forecasts





The AC has not assessed the impact of *full* utilisation of the 3 runways

Heathrow daily demand forecasts:



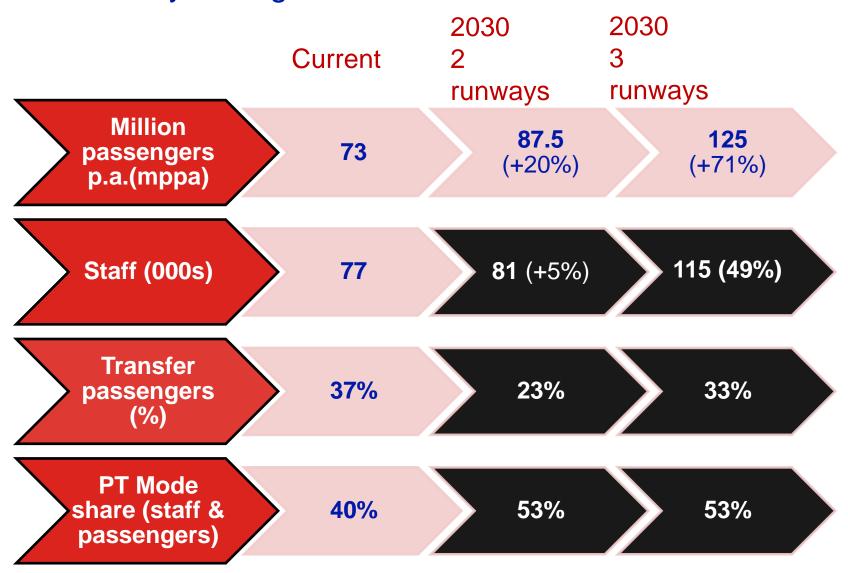


The AC has not included the full impact of additional freight and growth in business activity around the airport



Thousands of additional freight and extra activity generated from business growth around Heathrow have not been fully included in the AC's analysis

Many of the other assumptions could be seen as optimistic & sensitivity testing should have been undertaken

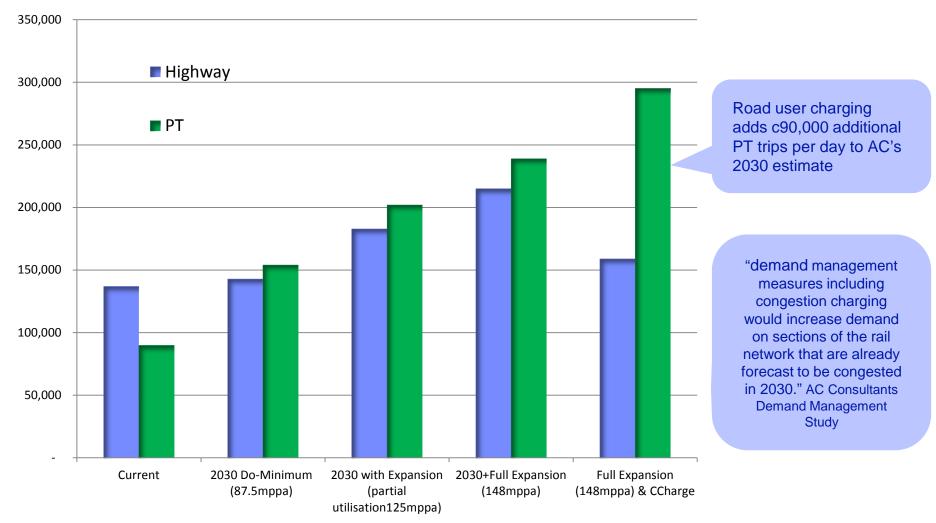


The extra runway results in NO₂ concentrations on Bath Road higher than the current worst link in London

- Without mitigation the AC found that the Bath Road would have the highest NO₂ concentrations in London. This would delay compliance with EU limits even with the AC's conservative traffic assumptions.
- With partial mitigation the Bath Road would fall just below the worst link in London so, it is claimed, would not delay compliance. However:
 - The AC has underestimated highway demand which will add to the air quality challenges in the area.
 - Mitigation measures are poorly developed
 - Transformational changes in PT would be required to meet limit values.
 - The 'last link' approach is legally flawed and open to challenge and does not support the AC objective of improving air quality
- Defra's recently published *Draft Air Quality Action Plan* substantially changes the baseline air quality and brings forward compliance by 10 Years. The impacts of a 3rd Runway at Heathrow must be *completely reassessed* in light of the revised action plan.

A road user charging scheme to address congestion and air quality would add substantial demand to public transport

Heathrow daily demand forecasts: with charging (AC assumptions)



Source: AC Demand Management: Road User Charing Analysis,

Para. 4.1.1 "reduction of car mode share among airport passengers from 47.1% to 38.7%; Para 4.2.8 "20% reduction in employee car demand"

Conclusions

A substantially greater level of public transport investment will be required

- Substantial transport capacity challenges arising from background demand growth & Heathrow expansion.
- AC: Expansion is 'not a transformative factor that would significantly change the scale of these challenges' i.e. it is not Heathrow's problem.
- TfL: If non-committed schemes are required for a 3rd runway they need to be identified and their costs included to ensure delivery with a 3rd runway.
- Without commitment to additional investment there's a real risk of severe impacts on both airport and non-airport travellers, increased crowding and congestion, and an ²³

