

Derby City Council
Economic Impact of HS2 to Derby
Summary Report

| 8 February 2012

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This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 218891-00

ARUP

3 Analysis of Potential Impacts of a HS2 Station in or Near Derby

3.1 Introduction

Four different scenarios were considered:

- Scenario 1 – a HS2 station in the centre of Derby;
- Scenario 2 – an out-of-town parkway station between Derby and Nottingham;
- Scenario 3 – a HS2 station in the centre of Nottingham, with Derby not part of the HS2 network; and
- Scenario 4 – a connection in the West Midlands between HS2 phase 1 and the Birmingham and Derby line to enable classic compatible trains to run at high speed on HS2 between London and the West Midlands, and then continue on existing rail routes at lower speeds to Derby and beyond. It would reduce journey times from Derby to London from 2026 instead of 2032/33 which is the earliest date for when the full HS2 network could be completed).

The following types of impacts were considered for each scenario:

- Wider Economic Impacts – the productivity benefits from business clustering created by improvements in accessibility (we have followed relevant Department for Transport guidance), these impacts are additional to conventional transport benefits based on the value of time of transport users;
- Land Use Regeneration Impacts – based on estimates of the potential of high speed rail to act as a catalyst for development in the areas surrounding or with good access to stations; and
- CO2 emissions as a result of journeys of passengers to access the HS2 station.

3.2 Main Findings

3.2.1 Summary of Impacts of Different Scenarios

Scenario	Wider Economic Impacts to Derby (60 year NPV)	Wider Economic Impacts to D2N2 LEP area (60 year NPV)	Potential Gross Land Use Regeneration Impacts for Derby (jobs)	Total annual CO2 emissions (tonnes) resulting from Derby passengers travelling to / from the station	Journey time saving to London from Derby
1. City centre through station	£145m	£295m	c.12,300	894 – 1,189	35 mins
2. Parkway station	£55m	£275m	c.615	2,817 – 3,749	19 mins
3. Nottingham (not Derby) HS2 station	£10m	£400m	c. -8,000	2,723 – 3,624	3 mins
4. Link from Derby to stage 1 of HS2	£70m	£140m	c. 10,500	894 – 1,189	26 mins

Figure 2 – Stage One of Derby Rail Strategy – Upgrading and Electrifying the Midland Main Line, Birmingham to Derby Line, and Add-on Schemes

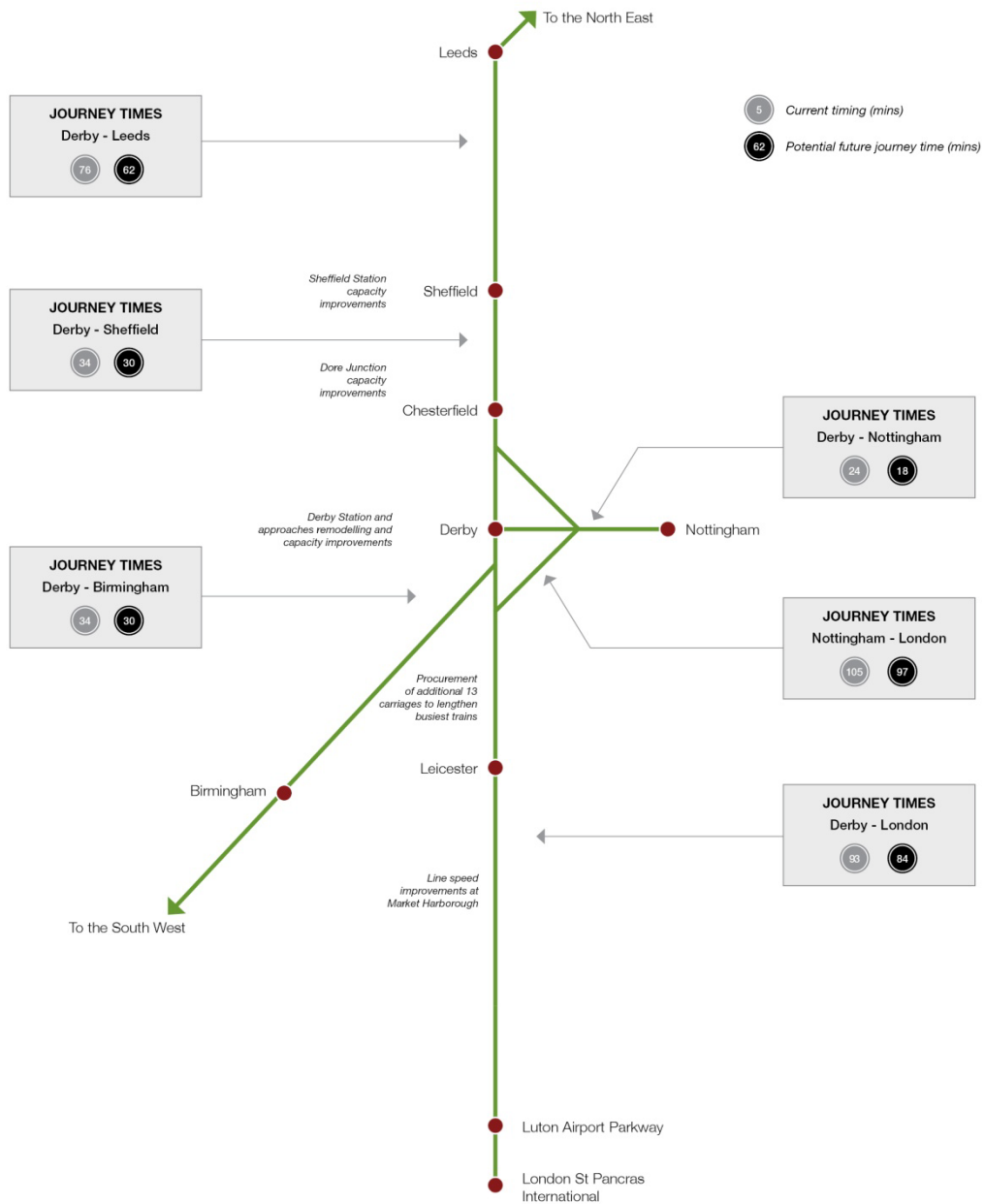


Figure 3. Stage Two of Derby Rail Strategy – Potential Connection to Stage One of HS2 to Enable Classic Compatible HS2 Services to Derby and Beyond in 2026

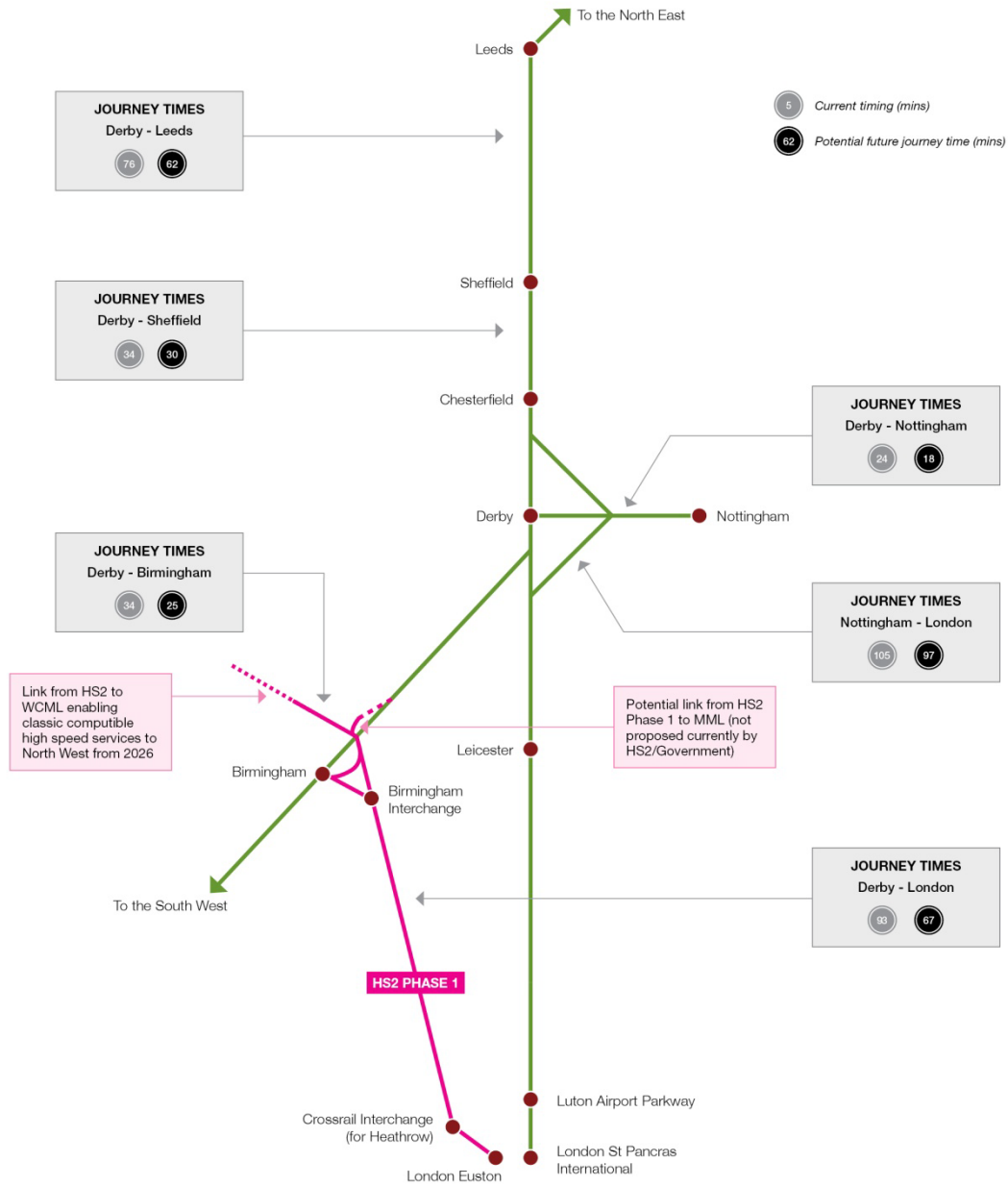


Figure 4. Stage Three of Derby Rail Strategy – Full HS2 Network Enabling Fast Services to City Centres

