

APPENDIX L1

CONNECTIVITY IMPROVEMENTS
ACHIEVED BY **HS2** AND **HIGH SPEED UK**
FOR:

LEEDS *and West Yorkshire conurbation*

(extract from *HS2 - High Speed to Nowhere*)

Appendix L1 : Leeds	
Page 256	Introduction & key results
Page 257	Timeline of comparative journey times from Leeds
Page 258	HS2 routes from Leeds
Page 259	HSUK routes from Leeds
Page 260	Tabulated journey times from Leeds

Leeds and West Yorkshire conurbation

Town/City	Leeds
City Region	West Yorkshire
Population of built-up area**	1,800,000
Ranking amongst UK cities**	4
Number of cities directly linked by existing rail network (out of 31)	17

References:

HSUK Yorkshire Rail Strategy
 HSUK Transpennine Rail Strategy
 HSUK Regional Maps 11 & 12
 HSUK Leeds Network Map
All available on HSUK website
www.highspeeduk.co.uk

** https://en.wikipedia.org/wiki/List_of_urban_areas_in_the_United_Kingdom - note that Wikipedia definition of Leeds' built-up area includes Bradford and Huddersfield

Leeds : Intercity Connectivity with HSUK and HS2

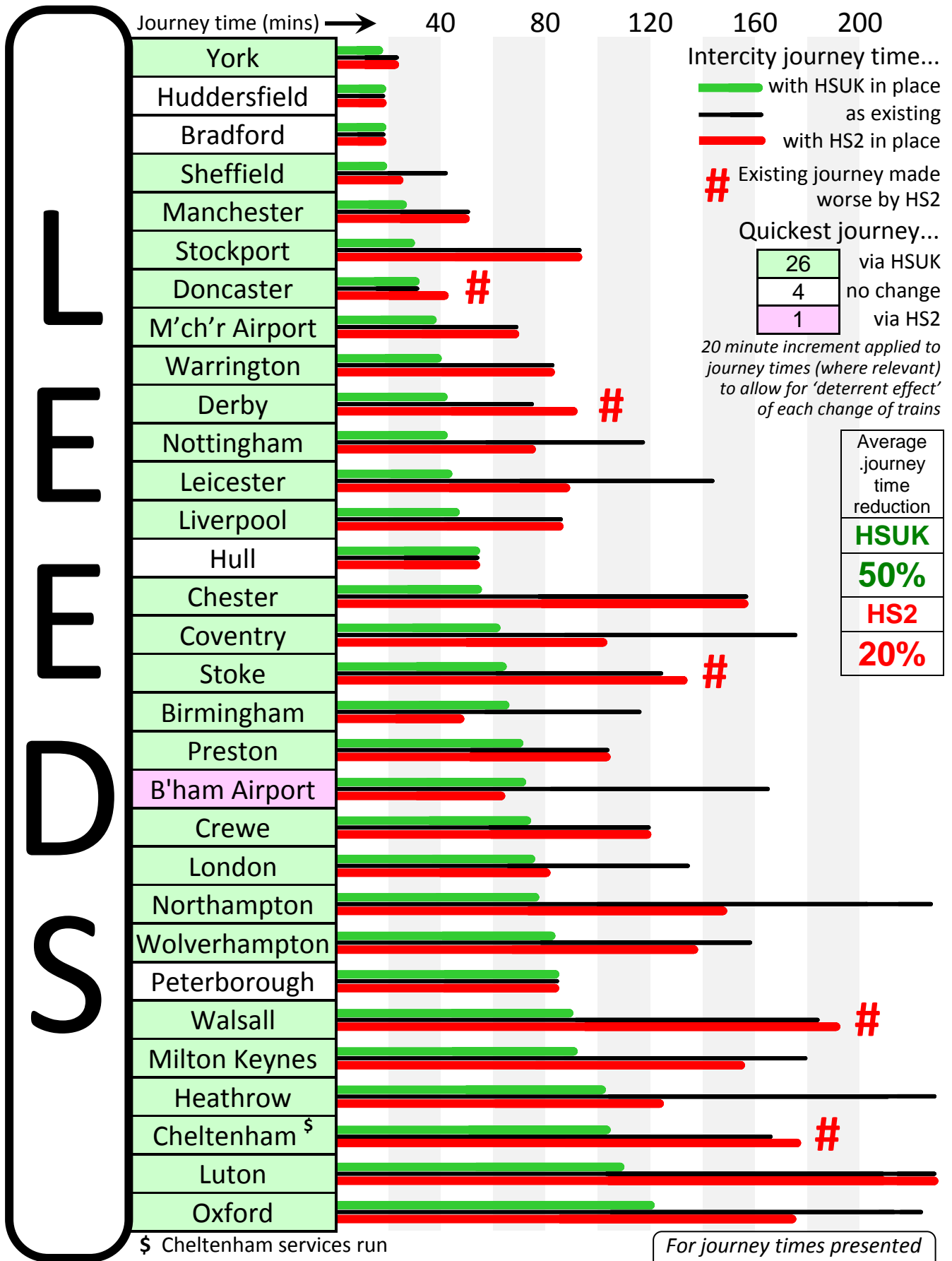
Leeds	Average journey time reduction	Cities directly linked (out of 30)	Journeys made faster (out of 31)	Journeys made worse (out of 31)	Best performer (out of 31 journeys)
High Speed UK	50%	30	26	0	26
HS2	20%	4	12	5	1

Leeds and the surrounding West Yorkshire conurbation comprise the largest urban area on the east of the Pennines, and Leeds City Station, located at the hub of the West Yorkshire rail network, is the busiest station in the North of England, with passenger numbers exceeded only by Birmingham New Street and various London termini. Although Leeds is a through station, the concentration of 6 incoming routes at its western throat, as opposed to a single route, means that it functions largely as a terminus, with most trains terminating there. As a consequence its 17 platforms (the greatest number outside London) are severely congested.

HS2 will serve Leeds by means of a south-facing spur from its trunk route (planned ultimately to continue to the North-East) to a new terminus station. This was originally planned to be located at New Lane, south of the River Aire, and remote from the existing station. Local pressure has led to revised proposals, with the station moved northward to meet the existing station in a T-bone arrangement. HS2 services will run from Leeds to Sheffield, Birmingham, Birmingham Airport and London. Major modifications to the existing station will be required to allow it to accommodate HS3 services. Existing congestion seems certain to remain.

HSUK's proposals for Leeds include the 4-tracking of the existing route to the east, the restoration of Farnley Viaduct to the south-west, and a new link from Stourton to Neville Hill to allow local services from Barnsley, Wakefield and Castleford to enter the station from the east. These 3 measures will create new capacity on the approaches to separate local and intercity services. This will allow HSUK services to operate from Leeds City Station to all principal UK cities and also free up sufficient platform space to allow local services to be approximately doubled in frequency.

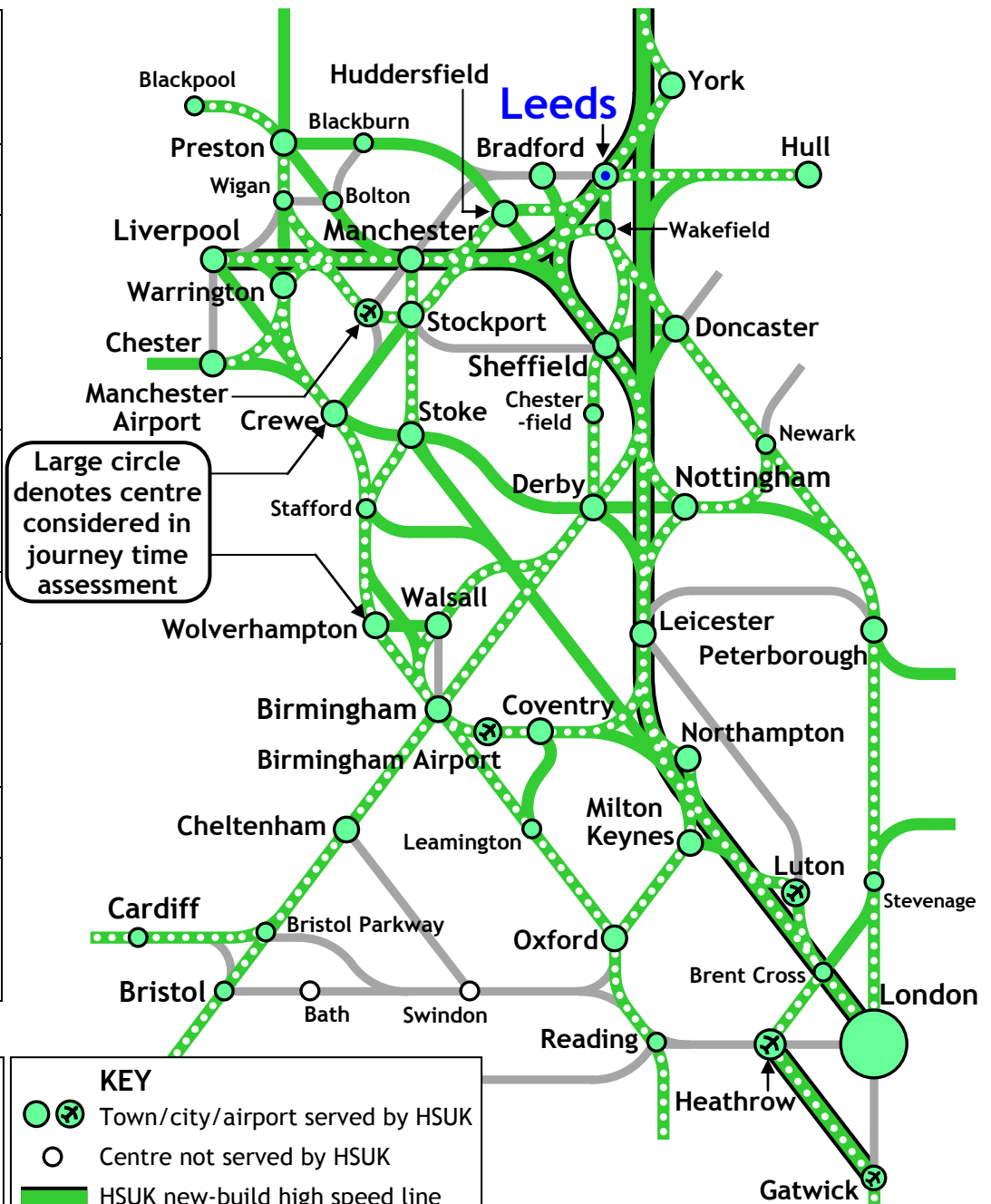
HIGH SPEED UK & HS2 LINKS TO LEEDS



LEEDS

*Fully connected to national high speed network,
direct high speed links to all principal UK cities*

HSUK
Average journey time reductions:
50%
No. of cities directly linked:
30
No. of journeys made faster:
26
No. of journeys made worse:
0



Leeds served by:
 HSUK01,02,04,09
 HSUK21,23,24,26
 HSUK28,37
 HSUK41,42
 HSUK74
 HSUK92
 See Appendix A1

KEY	
	Town/city/airport served by HSUK
	Centre not served by HSUK
	HSUK new-build high speed line
	HSUK services on existing line
	HSUK services from Leeds

www.highspeeduk.co.uk

**HIGH SPEED UK
 ROUTES & CITIES SERVED**

Comparative Journey Times from Leeds

Quickest via:	HSUK	No change	HS2	Journey time adjusted for number of changes			HSUK		Existing		HS2		Journey made worse by HS2
Origin	Destination		HSUK	Existing	HS2	Journey time	No of changes	Journey time	No of changes	Journey time	No of changes		
LEEDS	Birmingham		64	118	76	64	0	118	0	76	0		
	B'ham Airport		73	166	64	73	0	146	1	54	0 ^B		
	Bradford		19	19	19	19	0	19	0	19	0		
	Cheltenham		104	167	167	104	0	167	0	167	0	#	
	Chester		54	158	158	54	0	138	1	138	1		
	Coventry		64	176	102	64	0	156	1	72	1 ^B		
	Crewe		73	120	120	65	0	100	1	100	1		
	Derby		40	76	85	40	0	76	0	55	1 ^A	#	
	Doncaster		30	30	30	28	0	30	0	30	0	#	
	Heathrow		103	246	124	103	0	206	2	104	1		
	Huddersfield		19	19	19	19	0	19	0	19	0		
	Hull		55	55	55	55	0	55	0	55	0		
	Leicester		44	144	88	44	0	124	1	68	1		
	Liverpool		46	86	86	46	0	86	0	86	0		
	London		77	133	81	77	0	133	0	81	0		
	Luton		113	230	230	93	1	190	2	190	2		
	Manchester		26	51	51	26	0	51	0	51	0		
	M'ch'r Airport		37	69	69	37	0	69	0	69	0		
	Milton Keynes		95	180	156	95	0	160	1	126	1 ^B		
	Northampton		82	227	148	82	0	187	2	118	1 ^B		
	Nottingham		42	118	72	42	0	118	0	52	1		
	Oxford		124	224	176	124	0	204	1	146	1 ^B		
	Peterborough		85	85	85	85	0	85	0	85	0		
	Preston		70	104	104	70	0	104	0	104	0		
Sheffield		19	41	25	19	0	41	0	25	0			
Stockport		29	93	93	29	0	73	1	73	1			
Stoke		63	124	124	63	0	104	1	104	1	#		
Walsall		69	184	184	69	0	164	1	164	1	#		
Warrington		39	82	82	39	0	82	0	82	0			
Wolverhampton		82	159	139	82	0	139	1	109	1 ^B			
York		15	23	23	15	0	23	0	23	0			

A = Change introduced by HS2 B = Change via shuttle between Birmingham International and Interchange

= Journey made worse by intervention of HS2 (no adjustment made to existing journey time)

Generally, journey times adjusted by 20 minutes to allow for each change of trains. 30 minute adjustment applied for the special cases noted above ie A – extra change introduced by HS2 and B – shuttle connection between Birmingham International and Birmingham Interchange.