

## PRIORITY 1: NORTHERN HUB CAPACITY BOOST

### What would the Northern Hub mean?

- Up to **700** more trains per day
- Space for **44 million** more people to travel by train each year
- **Two** new fast trains per hour between Manchester Victoria and Liverpool
- **Six** fast trains per hour between Leeds and Manchester, up from four currently
- A new direct service through Manchester city centre to Manchester Airport

## PRIORITY 5: STATION CAPACITY IMPROVEMENTS



Sheffield Station



Liverpool Lime Street Station



Leeds Station



## SUMMARY: BENEFITS AND COSTS

Priority	Main benefits	Cost	Benefit:Cost ratio	Status	
1	Northern Hub	<ul style="list-style-type: none"> <li>• Reduces travel times between Liverpool, Manchester, Leeds, Sheffield and Newcastle</li> <li>• Increases capacity at Manchester Piccadilly</li> </ul>	£560m (£85m already approved)	4:1	Detailed specifications and analysis completed. Ordsall Chord already approved
2	HS2-Midland Mainline Connection	<ul style="list-style-type: none"> <li>• Immediate benefit from HS2 Phase 1 to East Midlands, East Yorkshire and North East</li> <li>• Reduces travel times between Newcastle, Sheffield, Derby</li> </ul>	£30m	Existing HS2 benefits increased by 20-25%	Initial plans developed by Greengauge21 and West Yorkshire ITA
3	Extending Transpennine electrification	<ul style="list-style-type: none"> <li>• Maximises benefit of Manchester-York upgrade by connecting to Middlesbrough, Scarborough and Hull</li> <li>• Reduces travel times between Newcastle-Manchester Airport, Hull-London</li> <li>• Reduces congestion on M62</li> </ul>	£85-110m (upper estimate)	Could pay for itself over its lifetime	We recommend that DfT and Network Rail draw up proposals for these schemes
4	Improved rolling stock	<ul style="list-style-type: none"> <li>• Enhances capacity and customer experience; increases cost efficiency and lowers carbon emissions</li> <li>• Maximises benefit of Transpennine electrification</li> <li>• Creates jobs associated with manufacture</li> </ul>	NA	NA	Urgent need for a study and strategy
5	Station improvements in Liverpool, Leeds and Sheffield	<ul style="list-style-type: none"> <li>• Increases capacity at all stations, both passenger numbers and train journeys</li> <li>• Increases modal shift between road and rail</li> </ul>	£110m	Previous upgrades to Sheffield and Manchester stations generated GVA impacts of between 5 and 7 times those derived using conventional appraisal benefits.	
<b>Total cost</b>		<b>£810m (£85m already approved)</b>			

## PRIORITY 4: IMPROVED ROLLING STOCK

