

Delivery Period	S1	S2	S3 BAU
<p>Post 2027 Reference Case (Schemes in an existing programme e.g. NPR / TPT)</p>	<ul style="list-style-type: none"> • Leeds – Newcastle Corridor (major upgrade via East Coast Main Line to include provision for HS2 services running north to Scotland) • Sheffield – Leeds Corridor (connection to HS2) • Manchester Airport – Manchester Corridor (via HS2) • Liverpool – Manchester Airport Corridor (new line) • Manchester – Leeds Corridor (new line via Bradford) • Manchester – Sheffield Corridor (further interventions) • Interventions at the major hubs necessary to realise the benefits of improved connectivity along the corridors identified above, including Newcastle, York, Sheffield, Manchester Piccadilly, Liverpool Lime Street and Leeds • West Coast Main Line – Wigan and Preston to Scotland (journey time and capacity improvements) • Borders railway (supporting cross-border working with Transport Scotland and Borderlands Partnership) • Stockport station (later phases) • Warrington Bank Quay station (or integrated station at Warrington) • Lancaster station • Oxenholme station • Penrith station • Northallerton Station • Durham Station • York to Newcastle • Trans Pennine Tunnel • Northallerton - Newcastle capacity enhancements and timetable resilience • Crewe – Stoke – Derby (journey time improvements) • M60 Manchester North West Quadrant including M62 to A57 Junction and Link • Bradford to Leeds (journey time improvements) 	<ul style="list-style-type: none"> • Leeds – Newcastle Corridor (major upgrade via East Coast Main Line to include provision for HS2 services running north to Scotland) • Sheffield – Leeds Corridor (connection to HS2) • Manchester Airport – Manchester Corridor (via HS2) • Liverpool – Manchester Airport Corridor (new line) • Manchester – Leeds Corridor (new line via Bradford) • Manchester – Sheffield Corridor (further interventions) • Interventions at the major hubs necessary to realise the benefits of improved connectivity along the corridors identified above, including Newcastle, York, Sheffield, Manchester Piccadilly, Liverpool Lime Street and Leeds • West Coast Main Line – Wigan and Preston to Scotland (journey time and capacity improvements) • Borders railway (supporting cross-border working with Transport Scotland and Borderlands Partnership) • Stockport station (later phases) • Warrington Bank Quay station (or integrated station at Warrington) • Lancaster station • Oxenholme station • Penrith station • Northallerton Station • Durham Station • York to Newcastle • Trans Pennine Tunnel • Northallerton - Newcastle capacity enhancements and timetable resilience • Crewe – Stoke – Derby (journey time improvements) • M60 Manchester North West Quadrant including M62 to A57 Junction and Link • Bradford to Leeds (journey time improvements) 	<ul style="list-style-type: none"> • Leeds – Newcastle Corridor (major upgrade via East Coast Main Line to include provision for HS2 services running north to Scotland) • Sheffield – Leeds Corridor (connection to HS2) • Manchester Airport – Manchester Corridor (via HS2) • Liverpool – Manchester Airport Corridor (new line) • Manchester – Leeds Corridor (new line via Bradford) • Manchester – Sheffield Corridor (further interventions) • Interventions at the major hubs necessary to realise the benefits of improved connectivity along the corridors identified above, including Newcastle, York, Sheffield, Manchester Piccadilly, Liverpool Lime Street and Leeds • West Coast Main Line – Wigan and Preston to Scotland (journey time and capacity improvements) • Borders railway (supporting cross-border working with Transport Scotland and Borderlands Partnership) • Stockport station (later phases) • Warrington Bank Quay station (or integrated station at Warrington) • Lancaster station • Oxenholme station • Penrith station • Northallerton Station • Durham Station • York to Newcastle • Trans Pennine Tunnel • Northallerton - Newcastle capacity enhancements and timetable resilience • Crewe – Stoke – Derby (journey time improvements) • M60 Manchester North West Quadrant including M62 to A57 Junction and Link • Bradford to Leeds (journey time improvements)
<p>SOP 2027-2033 'Fixed Window' Schemes</p>	<ul style="list-style-type: none"> • Wigan North Western station (or integrated station at Wigan) • York to Scarborough (journey time improvements) • Service frequency enhancements between Ormskirk and Preston • Access improvements to Crewe HS2 Hub • Doncaster-Leeds - journey time & capacity improvements • M1 Junction 35A to 39 Sheffield to Wakefield Extra Capacity • A1 Doncaster-Darrington • A19 North of Newcastle Junctions (Part) comprising: A19/A1 Seaton Burn Junction Improvements; A19 /A189 Moor Farm; A19/A1056 Killingworth; and A19/A193 Howdon Interchange • Skipton - Colne - Gannow Junction (journey time and service improvements) • Preston to York via Blackburn (journey time improvements) • M65 Junctions 2 to 6 • A64 Hopgrove • M1/M62 Lofthouse Interchange • Light Rail Links to Terminal 2 at Manchester Airport 	<ul style="list-style-type: none"> • Wigan North Western station (or integrated station at Wigan) • York to Scarborough (journey time improvements) • Service frequency enhancements between Ormskirk and Preston • Access improvements to Crewe HS2 Hub • Doncaster-Leeds - journey time & capacity improvements • M1 Junction 35A to 39 Sheffield to Wakefield Extra Capacity • A1 Doncaster-Darrington • A19 North of Newcastle Junctions (Part) comprising: A19/A1 Seaton Burn Junction Improvements; A19 /A189 Moor Farm; A19/A1056 Killingworth; and A19/A193 Howdon Interchange • Skipton - Colne - Gannow Junction (journey time and service improvements) • Preston to York via Blackburn (journey time improvements) • M65 Junctions 2 to 6 • A64 Hopgrove • M1/M62 Lofthouse Interchange • Light Rail Links to Terminal 2 at Manchester Airport 	<ul style="list-style-type: none"> • Wigan North Western station (or integrated station at Wigan) • York to Scarborough (journey time improvements) • Service frequency enhancements between Ormskirk and Preston • Access improvements to Crewe HS2 Hub • Doncaster-Leeds - journey time & capacity improvements • M1 Junction 35A to 39 Sheffield to Wakefield Extra Capacity • A1 Doncaster-Darrington • A19 North of Newcastle Junctions (Part) comprising: A19/A1 Seaton Burn Junction Improvements; A19 /A189 Moor Farm; A19/A1056 Killingworth; and A19/A193 Howdon Interchange • Skipton - Colne - Gannow Junction (journey time and service improvements) • Preston to York via Blackburn (journey time improvements) • M65 Junctions 2 to 6 • A64 Hopgrove • M1/M62 Lofthouse Interchange • Light Rail Links to Terminal 2 at Manchester Airport

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	<ul style="list-style-type: none"> • A174 Greyston21/04/20es Roundabout Improvements • Port of Tyne Connectivity • Tees Dock Road Roundabout Improvements • Eastern route access package to Liverpool John Lennon Airport and associated developments • A63/A1033 junction • Grimsby Western Relief Road • Selby to Port of Hull gauge enhancements and journey time improvements • Port Salford rail freight access • East-West Transpennine W12 gauge cleared rail freight route • Preston to Blackpool South (South Fylde Line) - journey time and capacity improvements • A66 Improvements (Scales/Troutbeck) • Newby Bridge Flooding Alleviation • A595 Whitehaven Relief Road, Bigrigg Bypass and Egremont Junctions • Sunderland Station and Sunderland Station track layout improvements • Newcastle to Middlesbrough (Durham Coast Line) – route & Hartlepool station upgrade and service improvements • Sunderland Strategic Transport Corridor (Phases 4 & 5) • A1068 Fisher Lane • Middlesbrough to York (journey time and service improvements) • A66 Darlington to Teesport capacity improvements • A15 junctions (A63 to M180) • A558 Daresbury Expressway improvements • Northwich to Sandbach rail re-opening and new stations • Manchester to Chester via Knutsford (Mid-Cheshire Line) - journey time and capacity improvements • Liverpool to Manchester via Warrington (Cheshire Lines Committee) - capacity and service improvements • A550 Chester Box Route Enhancements • Chester – Broughton growth corridor • Middlewich southern and western link (including access to the M6 from Winsford) • Bus Rapid Transit Schemes connecting Wigan Borough and Salford City • Northern Gateway access and capacity enhancements • Manchester South East Junction Improvements • M60/M67 Denton Island improvements • Burnley to Manchester (journey time and service improvements) • Leeds North West Quadrant improvements • M1 Leeds Eastern Gateway • South East Bradford Link Road • Shipley Eastern Relief Road • A638 improvements – Dewsbury to the A1(M) • Leeds to Sheffield via Barnsley (Hallam Line) - journey time improvements • Journey time and capacity improvements between Cleethorpes and Doncaster to increase links between Northern 	<ul style="list-style-type: none"> • A174 Greystones Roundabout Improvements • Port of Tyne Connectivity • Tees Dock Road Roundabout Improvements • Eastern route access package to Liverpool John Lennon Airport and associated developments • A63/A1033 junction • Grimsby Western Relief Road • Selby to Port of Hull gauge enhancements and journey time improvements • Port Salford rail freight access • East-West Transpennine W12 gauge cleared rail freight route • Preston to Blackpool South (South Fylde Line) - 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	Lincolnshire and the Sheffield City Region and the North West <ul style="list-style-type: none"> • Skelmersdale Rail Link • New & Upgraded Stations in the Mersey Dee area (Shotton, Deeside Park, Broughton) 	Lincolnshire and the Sheffield City Region and the North West <ul style="list-style-type: none"> • Skelmersdale Rail Link • New & Upgraded Stations in the Mersey Dee area (Shotton, Deeside Park, Broughton) 	Lincolnshire and the Sheffield City Region and the North West <ul style="list-style-type: none"> • Skelmersdale Rail Link • New & Upgraded Stations in the Mersey Dee area (Shotton, Deeside Park, Broughton)
SOP 2027-2033 'Edge' Schemes	<ul style="list-style-type: none"> • Newcastle to Carlisle (Tyne Valley Line) - route upgrade and journey time improvements • York to Hull (service improvements) • New/upgraded route around the North of Barnsley and Doncaster Districts or along the A6195/ A635 corridor • Fixed infrastructure links to Liverpool John Lennon Airport • Knutsford to Manchester Airport (Western Link) • Rail connection and station for Doncaster Sheffield Airport (DSA) • East Coast Main Line spur to Newcastle Airport • Parkside enhanced freight connectivity • West Coast Main Line freight capacity enhancements • Enhanced public transport links to Fleetwood • Journey time improvements Preston - Blackpool North • Barrow-in-Furness to Lancaster (Furness Line) - journey time and reliability improvements • Rail/ Metro integration improvements within Tyne and Wear to include routes, stations and timetabling • South of Tyne rail-based Park-and-Ride at Follingsby • Bishop Auckland to Saltburn, via Darlington and Middlesbrough (Bishop and Saltburn Lines) – service frequency and journey time improvements • Hull to Scarborough (journey time and frequency improvements) • Extend Merseyrail City Line services to Liverpool Central via Wapping Tunnel re-opening • Chester – Warrington Bank Quay (journey time improvements) • Lancaster - Morecambe additional services • Phase 2 – medium term: Leeds City Region further programme of works delivering capacity to enable forecast growth, as well as reliability improvements, and supporting the introduction of HS2 & NPR • Sheffield to Lincoln (journey time, frequency and capacity improvements) • Huddersfield to Sheffield (Penistone Line) - journey time, frequency and capacity improvements 	<ul style="list-style-type: none"> • M6 Junctions 16 to 19 corridor improvements • M6 Junction 26 to 32 Improvements • A194(M) Whitemare Pool Junction Improvements • A19 North of Newcastle Junctions (Part) comprising: A19 junction and on-line improvements between Killingworth interchange and Coast Road/Silverlink interchange • A69 De-Trunking / A689 Trunking to improve the route function • A69 route improvement, climbing lanes and targeted junction improvements (including the B6351 Hexham west junction) • M62 Junctions 5 to 10 • New/upgraded route between the M65 and Skipton/A629/A650 • M62 Junction 32 to 30 westbound • New/upgraded route around the North of Barnsley and Doncaster Districts or along the A6195/ A635 corridor • Fixed infrastructure links to Liverpool John Lennon Airport • M57 Junctions 4 and 5 • Switch Island (M57/M58/A5036) • West Coast Main Line freight capacity enhancements • Rail/ Metro integration improvements within Tyne and Wear to include routes, stations and timetabling • A164 dualling (A63 to B1232) • M56 Chester Box Improvements • M66 Improvements • M60/M56 interchange improvements • A663 Broadway / M60 Junctions 21 Upgrade • Lancaster - Morecambe additional services • M1 Online Improvements Junction 43 to Hook Moor • M62 Junction 24a • North Kirklees Orbital Route • A638 improvements – Wakefield to the A1(M)) • A61 Corridor Improvements • A57 South Anston bypass 	
SOP Post 2033 'Fixed' Window Schemes	<ul style="list-style-type: none"> • Southport to Wigan (journey time improvements) • East Coast Main Line (journey time and reliability improvements) - Doncaster to York • Crewe to Preston additional calls (additional path between Winsford and Preston) • M6 Junctions 19 to 21A improvements 	<ul style="list-style-type: none"> • Southport to Wigan (journey time improvements) • East Coast Main Line (journey time and reliability improvements) - Doncaster to York • Crewe to Preston additional calls (additional path between Winsford and Preston) • M6 Junctions 19 to 21A improvements 	<ul style="list-style-type: none"> • Southport to Wigan (journey time improvements) • East Coast Main Line (journey time and reliability improvements) - Doncaster to York • Crewe to Preston additional calls (additional path between Winsford and Preston) • M6 Junctions 19 to 21A improvements

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	<ul style="list-style-type: none"> • A1 North of Ellingham to Edinburgh Dualling (cross-border) • A1 dualling and capacity improvements in the North East (A1(M)) • Barton to Chester-le-Street widening) • North East new strategic river crossing • A19/B1404 Seaton Lane to A19/A183 Chester Road • Preston to Sheffield (journey time improvements) • Liverpool to Preston via Wigan (journey time and service improvements) • New Manchester Airport - Nottingham via Crewe and Derby limited stop service, increasing Crewe-Derby frequency from 1 to 2tph • A689 M6 to Carlisle Lake District Airport capacity improvements and improved M6 connectivity • A69-A696-A1 link to form a NW ring road of Newcastle via the airport • A66 to A1 New Link and Junction north of Scotch Corner • M65 improvements • New/upgraded route between A629/A650 and the A1(M)/M1 • A64 Technology Improvements - A1(M) Bramham to A1237 Hopgrove • A64 Crambeck to Scarborough improvements • A1079 York to Hull improvements • A1 to A19 link • A19 to M18 link • A1 to M1 link, comprising A1 to HS2 link from Redhouse and M1 to HS2 link • M1 to M18 link • M18 Junctions 2 to 5 (and online improvements to M18 Jn 2) • Windermere and Barrow to Manchester Airport (frequency and journey time improvements) • A556 Corridor Improvements • A63 Relief Route • A63 technology improvements • A180 • M18 Junction 4 connection to Doncaster Sheffield Airport • North East rail freight enhancements (passing loops and port connections) • A585 corridor improvements (M55 to Fleetwood) • New Ribble Crossing • Windermere to West Yorkshire (service improvements) • A590 South Cumbria (dualling and wider capacity, journey time and resilience improvements) • A590 Ulverston bypass • Reinstatement of passenger services on Stillington Line (Stockton – Ferryhill) • A580 Dual Carriageway and Some Grade Separation • M57 improvements • Birchwood park and ride • A500 dual carriageway with grade separated junctions • A34 (potential expressway) • Nantwich Southern Relief Road • Heavy rail capacity and journey time improvements in the South Manchester area and on the Wilmslow and Buxton lines 	<ul style="list-style-type: none"> • A1 North of Ellingham to Edinburgh Dualling (cross-border) • A1 dualling and capacity improvements in the North East (A1(M)) • Barton to Chester-le-Street widening) • North East new strategic river crossing • A19/B1404 Seaton Lane to A19/A183 Chester Road • Preston to Sheffield (journey time improvements) • Liverpool to Preston via Wigan (journey time and service improvements) • New Manchester Airport - 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	<ul style="list-style-type: none"> • M62-Carrington-M60 link • A6 Disley and High Lane bypass • M6 Junction 25 slip roads • Rossendale to Manchester public transport connectivity • Clitheroe to Manchester Victoria via Blackburn and Bolton (journey time and service improvements) • A59 corridor improvements (Liverpool to Preston) • M58 & M6 Interchange • A56 corridor improvements (M65 to M66) • Phase 3 – long term: Leeds City Region additional works improving the capacity of the network to enable forecast growth, and realising the introduction of HS2 and NPR, enabling their benefits to be spread and maximised • Rotherham to Leeds (frequency improvements) • M1 Junction 37a • Sheffield – Nottingham (journey time improvements) • A534 route upgrade • A51 Improvements (Nantwich to Chester – potential expressway) • A54 Corridor Improvements (M6 to Chester) • A15 improvements (M180 to A46 Lincoln Bypass) • A1 improvements (south of Blyth) 	<ul style="list-style-type: none"> • M62-Carrington-M60 link • A6 Disley and High Lane bypass • M6 Junction 25 slip roads • Rossendale to Manchester public transport connectivity • Clitheroe to Manchester Victoria via Blackburn and Bolton (journey time and service improvements) • A59 corridor improvements (Liverpool to Preston) • M58 & M6 Interchange • A56 corridor improvements (M65 to M66) • Phase 3 – long term: Leeds City Region additional works improving the capacity of the network to enable forecast growth, and realising the introduction of HS2 and NPR, enabling their benefits to be spread and maximised • Rotherham to Leeds (frequency improvements) • M1 Junction 37a • Sheffield – Nottingham (journey time improvements) • A534 route upgrade • A51 Improvements (Nantwich to Chester – potential expressway) • A54 Corridor Improvements (M6 to Chester) • A15 improvements (M180 to A46 Lincoln Bypass) • A1 improvements (south of Blyth) 	<ul style="list-style-type: none"> • M62-Carrington-M60 link • A6 Disley and High Lane bypass • M6 Junction 25 slip roads • Rossendale to Manchester public transport connectivity • Clitheroe to Manchester Victoria via Blackburn and Bolton (journey time and service improvements) • A59 corridor improvements (Liverpool to Preston) • M58 & M6 Interchange • A56 corridor improvements (M65 to M66) • Phase 3 – long term: Leeds City Region additional works improving the capacity of the network to enable forecast growth, and realising the introduction of HS2 and NPR, enabling their benefits to be spread and maximised • Rotherham to Leeds (frequency improvements) • M1 Junction 37a • Sheffield – Nottingham (journey time improvements) • A534 route upgrade • A51 Improvements (Nantwich to Chester – potential expressway) • A54 Corridor Improvements (M6 to Chester) • A15 improvements (M180 to A46 Lincoln Bypass) • A1 improvements (south of Blyth)
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		<ul style="list-style-type: none"> • Huddersfield to Sheffield (Penistone Line) - journey time, frequency and capacity improvements 	<ul style="list-style-type: none"> • West Coast Main Line freight capacity enhancements • Enhanced public transport links to Fleetwood • Journey time improvements Preston - Blackpool North • Barrow-in-Furness to Lancaster (Furness Line) - journey time and reliability improvements • Rail/ Metro integration improvements within Tyne and Wear to include routes, stations and timetabling • South of Tyne rail-based Park-and-Ride at Follingsby • Bishop Auckland to Saltburn, via Darlington and Middlesbrough (Bishop and Saltburn Lines) – service frequency and journey time improvements • Hull to Scarborough (journey time and frequency improvements) • A164 dualling (A63 to B1232) • Extend Merseyrail City Line services to Liverpool Central via Wapping Tunnel re-opening • Chester – Warrington Bank Quay (journey time improvements) • M56 Chester Box Improvements • M66 Improvements • M60/M56 interchange improvements • A663 Broadway / M60 Junctions 21 Upgrade • Lancaster - Morecambe additional services • Phase 2 – medium term: Leeds City Region further programme of works delivering capacity to enable forecast growth, as well as reliability improvements, and supporting the introduction of HS2 & NPR • M1 Online Improvements Junction 43 to Hook Moor • M62 Junction 24a • North Kirklees Orbital Route • A638 improvements – Wakefield to the A1(M)) • Sheffield to Lincoln (journey time, frequency and capacity improvements) • Huddersfield to Sheffield (Penistone Line) - journey time, frequency and capacity improvements • A61 Corridor Improvements • A57 South Anston bypass