

7 RAIL PLAN

<p>Rail Plan</p> <p>Significant improvements to inter regional rail links and between S Yorkshire's urban centres are vital for the new Spatial Strategy. Rail can also provide an attractive alternative to the car for some local journeys. The new rail strategy covers the next 20 years and builds on increasing both rails use and customer satisfaction levels .</p>	1. Conserve and enhance biodiversity	2. Adopt the principle of no net loss of designated habitats, and attach the highest priority to conserving and improving designated sites	3. Reduce the negative impacts of the transportation network on air quality	4. Introduce measures that minimise noise impacts on people and noise sensitive properties	5. Improve road safety and make people feel safer when using all forms of transport	6. Reduce levels of transport-related crime and fear of crime	7. Improve access to key services and facilities using sustainable modes of transport wherever possible	8. Encourage healthier lifestyles through travel choice	9. Minimise the impact of the transport network on the quality and quantity of the County's water resources	10. Reduce the contribution of transportation to greenhouse gases	11. Preserve and enhance the County's landscapes and townscapes	12. Preserve or enhance the County's cultural heritage, including architectural and archaeological heritage	13. Preserve/ promote those assets of economic value to an area	14. Promote regeneration in areas of low income and social exclusion
Sub-component measure														
Improve the reliability and general performance of the network through new franchises	o	o	+	o	o	o	+	o	o	+	o	o	+	o
Provide faster links between Leeds and Sheffield via Barnsley	o	o	o	o	o	o	o	o	o	o	o	o	+	+
Improve access and standards and upgrade facilities at existing local stations	-/o	o	o	o	+/?	?	+	o	o	-/?	+/-	+/-	+	+
Facilitate ease of interchange between services and between transport modes	o	o	?	o	o	+/?	++	o	o	-/?	+/-	+/-	+/?	+
Development of interchanges, e.g. Doncaster Interchange	-	o	-/?	o	+	o	?/+	o	o	-/?	?	?	-/?	+

<p>Rail Plan</p> <p>Significant improvements to inter regional rail links and between S Yorkshire's urban centres are vital for the new Spatial Strategy. Rail can also provide an attractive alternative to the car for some local journeys. The new rail strategy covers the next 20 years and builds on increasing both rails use and customer satisfaction levels .</p>	1. Conserve and enhance biodiversity	2. Adopt the principle of no net loss of designated habitats, and attach the highest priority to conserving and improving designated sites	3. Reduce the negative impacts of the transportation network on air quality	4. Introduce measures that minimise noise impacts on people and noise sensitive properties	5. Improve road safety and make people feel safer when using all forms of transport	6. Reduce levels of transport-related crime and fear of crime	7. Improve access to key services and facilities using sustainable modes of transport wherever possible	8. Encourage healthier lifestyles through travel choice	9. Minimise the impact of the transport network on the quality and quantity of the County's water resources	10. Reduce the contribution of transportation to greenhouse gases	11. Preserve and enhance the County's landscapes and townscapes	12. Preserve or enhance the County's cultural heritage, including architectural and archaeological heritage	13. Preserve/ promote those assets of economic value to an area	14. Promote regeneration in areas of low income and social exclusion
Expand Park & Ride facilities at some local stations	-	-	?/+	o	o	o	++	o	o	-/?	+/-	-/?	?/+	?
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	o	o	?	o	o	o	+	o	o	+	+/-	-/?	?/+	+
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	o	o	?	-/X	o	o	+	o	o	+	-/?	-/?-	+	+

Key to perceived impacts: + positive; ++ very positive; - negative; ? unknown; o no impact

SEA Objective :	1. Conserve and enhance biodiversity		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects*	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	County wide land bank	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County wide land bank	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County wide land bank	Potential for short to long-term adverse effects associated with new infrastructure at stations	Medium degree of certainty – magnitude of effects subject to scheme locations	Undertake more detailed assessment at scheme development and design stage. Seek to enhance biodiversity through scheme design where appropriate.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	County wide land bank	Potential for short to long-term adverse effects associated with development of new interchanges, Park & Ride areas etc.	Medium degree of certainty, subject to scheme locations	Undertake more detailed assessment at scheme development and design stage. Seek to enhance biodiversity through scheme design where appropriate.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	County wide land bank	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County wide land bank	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential short to long-term adverse effects associated with new infrastructure. There may be opportunities to enhance biodiversity through scheme design. Magnitude of potential effects subject to scheme locations.			Assessment of significance	Medium

SEA Objective:	2. Adopt the principle of no net loss of designated habitats, and attach the highest priority to conserving and improving designated sites		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	County wide land bank – includes three cSACs in addition to SSSIs and other designated sites	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County wide	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County wide	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	County wide	Potential for short to long-term adverse effects associated with development of new interchanges, Park & Ride areas etc.	Low degree of certainty, subject to location of new developments	Seek to locate new developments away from designated sites. Ensure statutory requirements relating to protected sites and habitats adhered to.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	County wide	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County wide	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential short to long-term adverse effects associated with new infrastructure, however, assume that any major developments would be located away from designated sites and/or mitigation would be incorporated into the design to compensate for any potential effects. There may be opportunities to enhance biodiversity through scheme design. Magnitude of potential effects subject to scheme locations.			Assessment of significance	Low

SEA Objective:	3. Reduce the negative impacts of the transportation network on air quality		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	County wide and trans-boundary air quality/ human health	Potential medium and long-term positive effects through modal shift from road to rail	Low degree of certainty; subject to extent of shift to rail	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County wide and trans-boundary air quality/ human health	Potential medium and long-term positive effects through modal shift from road to rail	Low degree of certainty; subject to extent of shift to rail	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County wide and trans-boundary air quality/ human health	Potential medium and long-term positive effects through modal shift from road to rail	Low degree of certainty; subject to extent of shift to rail	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Local air quality	Potential medium and long-term positive effects through increased use of public transport	Low degree of certainty; subject to extent of shift to public transport	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Local and county wide	Potential medium and long-term positive effects through modal shift from road to rail	Low degree of certainty; subject to extent of shift to rail	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County wide	Potential medium and long-term positive effects through modal shift from road to rail	Low degree of certainty; subject to extent of shift to rail	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential medium to long term positive effects associated with measures to improve rail services and to extend the Sheffield Supertram system, thereby potentially encouraging modal shift away from private car use.			Assessment of significance	Medium

SEA Objective:	4. Introduce measures that minimise noise impacts on people and property		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	Local noise impacts – quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Local noise impacts – quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Local noise impacts – quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Local noise impacts – quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Local noise impacts – quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Local noise impacts – quality of life.	Potential negative effects if Supertram extensions are in proximity to residential areas	Medium to high degree of certainty	Ensure all potential route extensions are explored at project level to minimise potential noise intrusion	Qualitative assessment, workshop and professional judgement
Qualitative summary	Generally no effects relating to noise intrusion, though there are potential negative effects associated with the Supertram route extensions if they are in proximity to residential areas.			Assessment of significance	Low

SEA Objective:	5. Improve road safety and make people feel safer when using all forms of transport		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	All areas – impacts on human health - safety	Potential medium to long-term benefits associated with provision of designated facilities and services for road users at existing local stations.	Low to medium degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Upgrade of facilities for road users at existing stations will improve traffic management and road safety at these locations. Development of new interchanges would also provide opportunities to improve passenger perception of safety when using public transport.			Assessment of significance	Low to medium

SEA Objective:	6. Reduce levels of transport-related crime and fear of crime.		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	All areas – impacts on human health - safety	Potential positive benefits as people are more likely to use transport interchanges if they feel safer, though this is dependant on the 'designing out of crime' at project level.	Low to medium degree of certainty.	Ensure that interchanges are developed at project level so that they do not increase the potential for crime	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	All areas – impacts on human health - safety	Potential positive benefits as people are more likely to use transport interchanges if they feel safer, though this is dependant on the 'designing out of crime' at project level.	Low to medium degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	All areas – impacts on human health - safety	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential positive cumulative effects associated with measures to design out crime and to alleviate perceived fear of crime.			Assessment of significance	Medium

SEA Objective:	7. Improve access to key services and facilities using sustainable modes of transport wherever possible		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	Positive impacts relating to the integration of services and facilities with sustainable methods of transport	Medium-High degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	Positive impacts relating to the integration of services and facilities with sustainable methods of transport	Medium-High degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	Positive impacts relating to the integration of services and facilities with sustainable methods of transport	Medium-High degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	Positive impacts relating to the integration of services and facilities with sustainable methods of transport	Medium-High degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Urban and non-urban communities. Impacts on accessibility, communities and quality of life.	Positive impacts relating to the integration of services and facilities with sustainable methods of transport	Medium-High degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Inherently positive cumulative effects in terms of promoting the integration of land use through alternative methods of transport. Most benefit to be gained where rail services integrated with other forms of sustainable transport.			Assessment of significance	High

SEA Objective:	8. Encourage healthier lifestyles through travel choice		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Urban and non-urban communities	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	No significant effects identified. May be indirect effects associated with extending capacity of Supertram with potential to increase patronage and the need for passengers to walk/cycle to/from tram stop locations			Assessment of significance	Low

SEA Objective:	9. Minimise the impact of the transport network on the quality and quantity of the County's water resources.		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County wide water resources, including major aquifers, rivers, supplying water to major conurbations and to smaller settlements.	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	No significant effects identified. Potential for adverse impacts during construction works, e.g. to upgrade stations, etc. may be potential to reduce existing adverse impacts on water resources by upgrading drainage systems, however any improvements likely to be at a localised level.			Assessment of significance	Low

SEA Objective:	10. Reduce the contribution of transportation to greenhouse gases		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	Regional air quality – impacts on climate	Improvements in the rail network could promote a modal shift from road to rail	Medium degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Regional air quality – impacts on climate	No significant effects identified.	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Regional air quality – impacts on climate	Potential positive impacts in that station improvements may result in a modal shift from road to rail	Low to medium degree of certainty.	No mitigation identified	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Regional air quality – impacts on climate	Potential positive impacts in that interchange improvements may result in a modal shift from road to rail	Low degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Regional air quality – impacts on climate	Better connections between settlements may encourage the use of more sustainable methods of transport, therefore reducing the dependency on private car use.	Medium degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Regional air quality – impacts on climate	Extensions to the Supertram network may encourage the use of more sustainable methods of transport, therefore reducing the dependency on private car use.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Improvements to rail/LRT services, along with the upgrade in station/interchange facilities are likely to promote a modal shift from road to alternative methods of transport resulting in positive medium to long-term effects.			Assessment of significance	Medium to high

SEA Objective:	11. Preserve and enhance the County's landscapes and townscapes		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
<i>Rail Plan</i>					
Improve the reliability and general performance of the network through new franchises	County wide landscape/townscape – urban/rural	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County wide landscape/townscape – urban/rural	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County wide landscape/townscape – urban/rural	Potential for long-term adverse effects associated with physical changes to or development of infrastructure. Potential opportunities to enhance townscape through good urban design.	Low to Medium, subject to location of schemes	Adopt good urban design principles	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	County wide landscape/townscape – urban/rural	Potential for long-term adverse effects associated with physical changes to or development of infrastructure. Potential opportunities to enhance townscape through good urban design.	Low to Medium, subject to location of schemes	Adopt good urban design principles	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	County wide landscape/townscape – urban/rural	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County wide landscape/townscape – urban/rural	Potential for long-term adverse effects associated with physical changes to or development of infrastructure.	Medium to high degree of certainty	Adopt good urban design principle to mitigate visual impacts as far as possible..	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential for long-term adverse effects on landscape/townscape, associated with physical improvements to existing facilities and new development. However, may be opportunities to improve existing townscapes through implementation of good urban design principles or incorporation of "landmark" features that contribute to the identity of the local area.			Assessment of significance	Low to medium

SEA Objective:	12. Preserve or enhance the County's cultural heritage, including architectural and archaeological assets		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	Urban and rural built heritage and buried archaeology	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Urban and rural built heritage and buried archaeology	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Urban and rural built heritage and buried archaeology	Potential for long-term adverse effects associated with physical changes to or development of infrastructure. Potential opportunities to enhance townscape through good urban design.	Low to Medium, subject to location of schemes	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Urban and rural built heritage and buried archaeology	Potential for long-term adverse effects associated with physical changes to or development of infrastructure. Potential opportunities to enhance townscape through good urban design.	Low to Medium, subject to location of schemes	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Urban and rural built heritage and buried archaeology	No significant effects identified.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Urban and rural built heritage and buried archaeology	Potential for long-term adverse effects associated with physical changes to or development of infrastructure.	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Potential for long-term adverse effects on landscape/townscape, associated with physical improvements to existing facilities and new development. However, may be opportunities to improve existing townscapes through implementation of good urban design principles or incorporation of "landmark" features that contribute to the identity of the local area.			Assessment of significance	Low to medium

SEA Objective:	13. Preserve or promote those assets of economic value to a area		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
Rail Plan					
Improve the reliability and general performance of the network through new franchises	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium- high degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium to high degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium- high degree of certainty.	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	County-wide employment areas, including commercial, industrial, agricultural, tourism, service industries and transport service provision.	Potential positive effects relating to the improvement in servicing of economic areas due to rail/LRT improvements	Medium	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	Improvements to rail and LRT services and facilities will promote and enhance those areas of economic activity that are considered important to the local/regional economy, with medium to long-term positive effects			Assessment of significance	Medium-high

SEA Objective:	14. Promote regeneration in areas of low income and social exclusion		Worksheet completed by and date:	Scott Wilson June 2005	
Plan strategic alternative or subcomponent	Description of value and vulnerability of the area likely to be affected	Description of the magnitude of the effects	Level of certainty (high/medium/low) and associated comments	Description of mitigation and its implementation	Description of how the judgement was reached
<i>Rail Plan</i>					
Improve the reliability and general performance of the network through new franchises	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Provide faster links between Leeds and Sheffield via Barnsley	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve access and standards and upgrade facilities at existing local stations	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Facilitate ease of interchange between services and between transport modes	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
In the longer term, provide better connections between Barnsley and Doncaster, from Rotherham to strategic rail routes and to Robin Hood Airport from the rest of South Yorkshire	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Improve and extend the Sheffield Supertram system, by adding new tram sets to increase capacity within Sheffield, improving links to Rotherham and by possible extensions other locations	Former coalfields areas, rural areas and deprived urban areas	The improvement of rail/LRT services and facilities is inherent in terms of promoting regeneration and social inclusion	Medium degree of certainty	No mitigation identified.	Qualitative assessment, workshop and professional judgement
Qualitative summary	The regeneration of areas that suffer from deprivation and social exclusion will be promoted by increased rail/LRT provision as economic investment will be encouraged by this additional servicing.			Assessment of significance	Medium-High