

Transport for the North - Strategic Transport Plan 2

Integrated Sustainability Appraisal 2

Post Consultation Non-Technical Summary

Reference: V2

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1. Introduction

1.1 Purpose of this summary

This Report summarises the Integrated Sustainability Appraisal (ISA2), which identifies the likely sustainability impacts of implementing the Strategic Transport Plan 2 (STP2). STP2 has been produced by Transport for the North (TfN). The ISA2 has been independently produced by Ove Arup and Partners (Arup).

This non-technical summary has been revised following the consultation on the STP2 to take into account feedback received during the consultation. This revised summary is to aid in the understanding of the Integrated Assessment (IA) process undertaken to support the development of the STP2. Consultation responses raised that ISA2 documents were complex and technical. Therefore, this post consultation summary uses the same information within the previous non-technical summary, however explanations have been summarised in a different format to help understanding of ISA2. The content and results of the assessment have not changed, it is only the format in which this is presented that has changed. A list of changes between the non-technical summary issued for consultation and this post-consultation summary can be found in Appendix A.

1.2 What is the role of TfN?

TfN became England's first statutory sub-national transport body in April 2018. As a partnership, TfN brings the North's 21 local transport authorities and Local Enterprise Partnership (LEP) business leaders together with Network Rail, Highways England, and HS2 Ltd, while working closely with central government. STP2 sets out, on behalf of the North of England, the strategic ambitions and priorities for transport in the North.

1.3 The Strategic Transport Plan 2

Following public consultation, the first Strategic Transport Plan (STP1) was adopted in 2019. Since the publication of STP1, TfN has continued to evolve its evidence base. Therefore, TfN now want to develop a second strategic transport plan. To support and shape STP2, TfN proposed three Strategic Ambitions. These are:

- Transforming Economic Performance
- Rapid Decarbonisation of Surface Transport
- Enhancing Social Inclusion and Health

STP2 has been created around four 'building blocks' to ensure that its evidence base is robustly and comprehensively set out. These are:

- The Case Setting out the case for change, summarising the evidence headlines and setting the scene for the STP, including the principles of the 'Sustainability Stool'.
- The Vision Setting out TfN's overarching vision for transport in the North of England, supported by three strategic ambitions.
- TfN's Strategy for the North's Transport System TfN's overarching strategy and priorities for rail, the road network, freight and international connectivity, and local connectivity.
- Action and Impact Framework Setting out the role and responsibilities of TfN, its action plan and how it will measure its impact.

Following consultation and TfN approval, the plan is to be adopted in December 2023.

2. ISA2 Methodology

2.1 Purpose of the ISA2

The ISA2 supports the development of the Plan. The ISA2 aim is to promote sustainable development, health and equality, social, environment and economic considerations within the Plan. The ISA2 and Plan have progressed together, allowing recommendations from the ISA2 to be included as the Plan has developed.

The ISA2 meets the requirements of:

- Strategic Environmental Assessment (SEA) in accordance with the Environmental Assessment of Plans and Programmes Regulations 2004 (SI 2004/ 1633, "2004 Regulations" as amended).
- Sustainability Appraisal (SA) (as required by section 19 (5) of the Planning and Compulsory Purchase Act 2004).
- Equality Impact Assessment (EqIA) (as required by section 149 of the Equality Act 2010, as amended).
- Health Impact Assessment (HIA) (as outlined by national government policy).

Further information in relation to the requirements of the above can be found in the ISA2 Main Report.

A Habitat Regulations Assessment (HRA) has been completed, as required under Regulation 48 of the Conservation (Natural Habitats, &c.) Regulations 1994 (SI 1994/2716, "1994 Regulations", as amended). The relevant scoping and assessment can be found within the HRA Stage 1 and Stage 2 Report.

2.2 Reporting and consultation as part of the ISA2

Consultation is a key part of the IA process. Consultation completed to date has been on the ISA2 Scoping Report. The Scoping Report was shared with statutory consultation authorities and other relevant stakeholders in 2022. Following the consultation, all feedback was considered and the Scoping Report was updated based on consultation responses.

Consultation responses received as part of this Plan consultation have been considered and actioned. Changes resulting from the consultation are summarised in Appendix F of the ISA2 Main Report.

All documents relating to the ISA2 were published as part of the Plan consultation.

2.3 ISA2 Stages

The ISA2 process follows the standard Integrated Assessment (IA) stages. We are currently within Stage D of the process.

Table 1: IA Stages

Stages	Overview
Stage A	This scoping stage is to set the context for the assessment which includes a review of relevant plans, programmes and strategies; collection, analysis and summarisation of current and future baseline data; identification of key issues and opportunities for the North; refinement of ISA objectives; preparation of the scoping report and consultation with statutory bodies and relevant organisations.
Stage B	This assessment stage is to consider the proposed policy options and assess their effects, using the framework developed in stage A including assessing the vision and objectives of the Plan and reasonable alternatives, identifying mitigation measures, explaining why the preferred policy options were taken and to propose monitoring measures for the policies.
Stage C	This reporting stage involved preparing the IA report which explains Stage B.
Stage D	This consultation stage involves consulting of the proposed Plan (STP2) and associated IA, with feedback from the consultation considered and appropriately actioned.
Stage E	The post-adoption stage will involve the creation of the Post Adoption Statement following the adoption of the Plan. The statement will include an explanation of how the IA report and consultation responses have been considered, how reasonable alternatives have been evaluated and the reasons for choosing the plan as adopted and the monitoring measures in place to track the effects of the implementation of the plan.

2.4 ISA2 Assessment Methodology

To undertake the IA stages above, the IA uses an 'assessment framework' against which to challenge and test the emerging Plan. The IA Framework is used to identify the likely social,

economic and environmental effects of the Plan, recommend ways of avoiding or reducing any negative impacts, but importantly, also recommending ways to further enhance the policy.

This framework of objectives is created as part of stage A. The ISA2 has 16 objectives covering sustainable development, health and equality, social, environment and economic topics. These objectives are bespoke for this Plan. Each objective has assessment criteria which help the assessment team to decide if the Plan policies meet the objective. The objectives are outlined here:

- 1. Reduce greenhouse gas emissions from surface transport in the North
- 2. Minimise embedded emissions from the development of new transport infrastructure and the maintenance of existing infrastructure
- 3. Protect and enhance the biodiversity, geodiversity and the green infrastructure network
- 4. Conserve and enhance internationally designated environment sites
- 5. Protect and enhance local air quality
- 6. Increase resilience of the transport network to extreme weather events and a changing climate
- 7. Protect and enhance the blue infrastructure network including inland and coastal water environments
- 8. Protect and conserve soil and remediate and avoid land contamination
- 9. Support the conservation and enhancement of the quality and distinctiveness of historic assets, industrial and cultural heritage and their settings
- 10. Protect and enhance the character and quality of landscapes and townscapes
- 11. Promote the prudent use of natural resources, minimise the production of waste and support the re-use and recycling of materials
- 12. Enhance long term economic prosperity and promote a clean and green economic transformation
- 13. Coordinate land use and strategic transport planning across the region
- 14. Promote greater equality of opportunity for all citizens and reduce Transport Related Social Exclusion (TRSE), particularly for the North's most vulnerable groups.
- 15. Improve the health and wellbeing for all citizens and reduce inequalities in health

16. Promote community safety and reduce crime and the fear of crime for all citizens

The STP2 has been assessed against these ISA2 objectives to understand their effects on these sustainability aspects. We've assessed the strategic ambitions, the plan policies and reasonable alternatives to the Plan. This has been completed as part of stage B.

Each objective and policy is assessed for the effect it has against each objective. It is scored by following Table 2 below.

Table 2: ISA2 Assessment Outcomes

+++	Largely Beneficial
++	Moderate Beneficial
+	Slightly Beneficial
0	Neutral
-	Slightly Adverse
	Moderate Adverse
	Strongly Adverse
?	Uncertain
+/-	Combination

Combined symbols are sometimes used in the assessment (e.g. '+/?' or '-/?'). This happens because there is a strong likelihood of both positive and negative effects for example, but that there is not enough information to know for certainty at this stage. Alternatively, there may be a combination of positive or negative effects, depending on how the policy is delivered.

The assessment also seeks to identify if the likely effects are direct, indirect, temporary and/or permanent. The assessment also considers whether the effect will be a local or on a regional scale. Where applicable, a description of what could be affected is also given, along with any cumulative, secondary or synergistic effects which might occur. When thinking about the effect of the thematic policies (such as road or rail for example), the types of effects a policy could have are also considered over the short-, medium- and long-term.

The Plan's strategic ambitions, called objectives within this assessment, were assessed with different assessment outcomes; 'Potential Conflict', 'Dependent Upon Nature of Implementation

Measures', 'Broadly Compatible' and 'Not Relevant'. This was because the ISA2 needed to test their compatibility with the ISA2 Objectives.

Further information regarding the methodology used as part of the ISA2, is included within the ISA Main Report within Section 2

3. Assessment Results

3.1 Compatibility Assessment

Four assessments on the STP2's strategic ambitions, called 'objectives' within this assessment, have been undertaken in November 2022, January 2023, March 2023 and January 2024 as the Plan developed. The Plan has 3 objectives:

- Transforming Economic Performance.
- Rapid Decarbonisation of Surface Transport.
- Reducing Transport Related Social Exclusion, which changed to Enhancing Social Inclusion and Health in March 2023

The January 2024 assessment followed changes made to the Plan after the public consultation. The reassessment found that there were no STP2 Plan objectives scored with a 'Potential Conflict' against the ISA2 objectives. Following changes in wording within Objective 1, the Objective improved its score from 'Dependent Upon Nature of Implementation Measures' to 'Broadly Compatible' compared with the March 2023 assessment against ISA2 Objective 5 (protecting and enhancing air quality). Objectives 2 and 3 also had wording changed however they were found to score the same as in March 2023.

Therefore, the assessment found that the plan's objectives provide a strong basis to help ensure that the sustainability performance of the plan can be maximised.

Information on the three previous assessments and more information about this assessment can be found in the ISA2 Main Report.

3.2 Assessment of Alternatives

TfN identified three reasonable alternative scenarios. The alternative scenarios were developed through the development and implementation of STP1 and informed by the ongoing evidence base work TfN are undertaking. The ISA2 provides an assessment of each alternative against the ISA2 objectives and helps to enhance the transparency of the decision-making process, as part of the development of the STP2.

In light of consultation feedback, in January 2024, we revisited how the how the previous scoring against ISA objectives 1,9 and 13, had been applied.

The result of this assessment in January 2024, was:

- an amendment improving the scoring for Local Modal Shift Max scenario against ISA2 objective 1;
- an amendment reducing the scoring for Continuation of STP1 scenario against ISA2 objective 9;
- an amendment reducing the scoring for Balanced scenario against ISA2 objective 9;
- an amendment to the scoring for Local Modal Shift Max scenario from 'neutral/uncertain' to 'uncertain' against ISA2 objective 9;
- amendment in relation to objective 13, reducing scoring for the Balanced scenario; and
- amendment in relation to objective 13, improving scoring for the Local Modal Shift Max scenario.

Considering these changes to the assessment scores, the overall conclusion of the alternatives assessment remained consistent with previous iterations of assessment in finding that the 'Balanced Scenario' performed the best overall across the ISA2 Objectives. The 'Continuation of STP1 Scenario' performed well against the ISA2 Objectives, with a slight, moderate or largely beneficial impact against seven objectives. The Local Modal Shift Max Scenario scored similarly to the Continuation of STP1 Scenario, albeit with strengths in different areas. Across all three scenarios, it will be key to ensure any adverse effects are reduced and beneficial effects are enhanced where possible through the carefully considered and identified mitigation measures.

It is not the purpose of the ISA2 to decide which alternative scenario should be pursued. This is the responsibility of TfN who have considered the preferred, most appropriate strategy to be taken forward. More information on the reasonable alternatives assessment can be found in the ISA2 Main Report.

3.3 Assessment of the STP2's Policies

Four assessments on the Plan's policies have been undertaken in November 2022, January 2023, March 2023 and January 2024 as the plan developed. The March 2023 assessment and January 2024 assessment, assessed the four thematic policies included in the Plan:

Rail

Freight and Logistics

Road

Local Connectivity

The policies performed well against the ISA2 objectives in the March 2023 and January 2024 assessments. The policies scored well in terms of reducing greenhouse gas emissions and protecting

local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environments for all, which support the three overarching ambitions of STP2.

The January 2024 assessment found changes to ISA2 objectives 1, 2, 5, 6, 7, 13, 14, 15 and 16 across the Thematic Policies which improved the policies performance since the March 2023 assessment. For example, the Road Thematic Policy improved from 'Slightly Beneficial' to 'Largely Beneficial' on the short-term timeframe due to policy wording being added which provides greater explicit references to alternative fuels, impacting on reduction of greenhouse gas emissions.

However, the March 2023 and January 2024 assessment findings also found areas of uncertainty surrounding avoiding land contamination conserving and enhancing historic assets, landscapes and townscapes. The January 2024 found one change to ISA2 objective 12 (enhancing long term economic prosperity), which reduced the 'Rail' policy performance since the March 2023 assessment. This assessment outcome reduced from 'Largely Beneficial' to 'Moderately Beneficial' in the long-term timeframe due to changes in the within the policy wording to reflect the recent cancellation of the HS2 rail link to the North of England. These wording changes make the policy less specific and therefore the ISA can be less certain about the extent to which the ISA objective will be met in the long-term. However, the overall assessment score for the policy remains 'Moderate Beneficial' across short, medium and long-term timescales in supporting long term economic prosperity for the North of England. No further recommendations were identified following this change.

Table 3 summarises the findings of the January 2024 assessment of thematic policies against each ISA2 objective.

The March 2023 assessment found a number of strengths in the Policy and Places Framework when assessed against the ISA2 objectives. The policies scored well in terms of reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environments for all which support the three overarching ambitions of Plan. thee Policy and Places Framework also scores strongly against protecting and enhancing blue and green infrastructure, conserving and enhancing historic assets, landscapes and townscapes.

The assessment also found areas of uncertainty or only slightly beneficial impacts across the Policy and Places Framework. The Policy and Places Framework relates to distinct place types, therefore whilst certain policies did not perform strongly it was not considered proportionate to amend the policy wording where it had instead been addressed elsewhere, at a higher level, within the Plan. Therefore, mitigation was not identified where it potential weaknesses were felt to be addressed

when the Plan was read as a whole. Table 4 summarises the findings of the assessment of the Policy and Places Framework policies against each ISA2 objective. These policies were not assessed in January 2024 as only a minor level of changes were made to the policy wording within the Plan as a result of the consultation, and those changes did not materially affect or impact on the ISA objectives.

It should be noted that some of the recommended actions across both the thematic policies and the Policy and Places Framework to address these identified uncertainties would need to be considered at the design stage or project level and therefore led by delivery authorities. For this reason, it was felt this information did not need to be included within the Plan. This is because TfN would work with and influence the delivery authorities to minimise the adverse environmental and social impacts, as outlined within the Action and Impact Framework.

Therefore, when the plan is read as a whole, the STP2 provides a firm basis for future transport planning for the North. Information on the two previous assessments and more information about this assessment can be found in the ISA2 Main Report.

For reference, the ISA2 Assessment Outcomes Key from Table 2 is re-created here to help review Tables 3 and 4.

+++	Largely Beneficial
++	Moderate Beneficial
+	Slightly Beneficial
0	Neutral
-	Slightly Adverse
	Moderate Adverse
	Strongly Adverse
?	Uncertain
+/-	Combination

Table 3: Summary of assessment scores for the STP2 Thematic Policies (January 2024)

Thematic																				
Policies	1	2	3	4	5	6	7	8	9	10	11	12	13	14a	14b	14c	15a	15b	16a	16b
Rail	+++	+/?	+/?	+/?	+++	+	0/?	0/?	0/?	+	++	++	++	+++	+++	+++	++	+++	++	+++
Roads	+++	++	++	0	++	+++	+	0/?	0/?	+	+	++	++	++	+	++	++	++	++	++
Freight and International Connectivity	+++	+++	+/?	+/?	+++	++	+	0/?	0/?	+	++	++	++	++	++	++	++	+++	++	++
Local Connectivity	++	++	+	?	+	+	0	0	0	+	+	+++	++	++	++	++	++	++	++	+

Table 4: Summary of assessment scores for the STP2 Policy and Place Framework (March 2023)

Policy and Place Framework	ISA	2 Fran	newor	k Obje	ectives															
Framework	1	2	3	4	5	6	7	8	9	10	11	12	13	14a	14b	14c	15a	15b	16a	16b
Commuter Towns	+++	++	++	+	++	++	++	0/?	+/?	+	+	++	++	++	+++	++	++	+	+	+
Large Conurbations	+++	++	++	++	+++	+++	++	0/?	+++	+++	+	+++	+++	+++	+++	+++	+++	+++	++	++
Rural Villages & Dispersed	+++	++	+/?	+	++	+	0	0/?	+	+	+	++	++	++	+++	++	++	++	++	++
Rural Town and Fringe	+++	++	++	+	+++	++	++	0/?	++	++	+	++	++	++	++	++	++	++	++	++
Transformational Places	+++	++	+	+	+++	++	0/?	+/?	0/?	+	+	+++	++	++	++	++	+	+++	++	0/?
Other Urban	++	++	++	++	+++	++	++	+	+++	+++	+	++	++	++	++	++	++	++	++	++
Visitor Destinations	+++	+	++	++	+++	++	+	0/?	++	++	+/?	++	++	++	++	++	++	++	++	++
Former Metropolitan Counties	+++	+	+	+	+++	+	0/?	0/?	+/?	+/?	+/?	+++	++	++	+	++	++	+	++	++
Industrial Places	+++	++	++	+	++	++	++	0/?	+++	+	+	+++	+++	++	+	++	++	+	++	+

4. Cumulative, Synergistic and Indirect Effects

The ISA2 has considered cumulative, synergistic and indirect effects, as explained within Section 2 of this summary. These are defined as:

- Indirect effects are not a direct result of the plan but occur as a result of actions. An example
 of this would be development that changes a water table, therefore affecting the ecology of a
 nearby wetland.
- Cumulative effects are where several insignificant individual effects have a combined significant effect. An example of this would be noise or dust pollution from multiple new developments.
- Synergistic effects are where a total effect is greater than the sum of the individual effects.
 An example of this would be a wildlife habitat becoming progressively fragmented with limited effects on a particular species until the last fragmentation makes the areas too small to support the species.

Overall, 11 effects from the Plan were identified as part of the ISA2 and these vary across environmental, social and economic effects. For example, a mix of cumulative positive and negative effects would likely be had on biodiversity across the North from the Plan and intentions derived from it. The use of land for new infrastructure, for example, for transport infrastructure, commercial uses and housing could result in habitat degradation, loss or fragmentation. However, positive effects are anticipated following the introduction of the Environment Act (2021) with the 10% BNG requirement and Local Nature Recovery Strategies.

Another example, is potential cumulative effects upon historic assets across the North. It would be likely that a mix of negative and positive effects on historic assets, industrial and cultural heritage and their settings would likely be had across the North from the Plan and intentions derived from it. Better integrated and more accessible sustainable transport modes could improve access to heritage sites, however changes to transport infrastructure could have potential negative effect on the integrity and setting of heritage assets that form part of the transport network without appropriate mitigation measures.

The completed list of identified effects are explained in more detail in the ISA2 Main Report within Section 10.

5. Mitigation

As part of the assessment, mitigation and enhancement has been suggested to strengthen the performance of the STP2 against the ISA2 objectives. Mitigation is where recommendations have been made to reduce negative effects. Enhancement is where recommendations have been made to improve positive effects further. A summary of the most commonly recommended enhancement and mitigation measures given for the Plan to help further enhance the positive effects of the STP2, is listed below. The complete list of identified mitigation measures are explained in more detail in the ISA2 Main Report within Section 11.

- Measures could be taken to reduce the amount of carbon from the North's transport system.
 This could be enhanced by prioritising in policy, Climate Change mitigation and adaptation measures in the development of new, or improvements to existing transport infrastructure.
- There could be a greater consideration of using innovative low carbon construction materials
 and techniques for the development of new, or improvement of existing, transport
 infrastructure as well as for maintenance activities
- More complex measures could be considered to support ecological connectivity such as
 animal over or under passes on the road network, the development of wildflower meadows
 along linear features such as roads and railway lines or the active control of invasive species
- There could be greater consideration within projects to the conservation and enhancement measures of internationally designated environment sites, particularly those designated as SSSI or Natura 2000.
- There could be greater consideration to increase the understanding of the transport systems
 vulnerability to climate change effects, as well as to encourage adaptive management and
 design to respond to uncertain climatic effects.
- Further consideration could be given to the use of nature-based solutions to protect the blue infrastructure network, including aquatic habitats.
- Further opportunities could be taken to utilise areas of previously developed land and to remediate contaminated land when possible.
- Further opportunities could be taken to support supporting improved access to historic or culturally important sites by sustainable transport modes.

- The design, construction, repair and maintenance of transport infrastructure could be
 encouraged further to respect and enhance where possible the landscape character and
 townscapes of the north of England.
- Greater consideration could be given to ensuring that new or upgraded infrastructure is
 resource efficient and encouraging the use of recycled materials, local suppliers and locally
 produced materials in construction.
- Greater consideration could be given to supporting the development of connected communities and coordinating public transport infrastructure with the future development of employment and housing within 15/20-minute neighbourhoods to enable coordinated strategic planning across the plan area.
- Greater consideration could be given to reducing emissions and other aspects such as noise pollution and vibration dust which potentially effect health and well-being.
- Further opportunities could be taken to support of natural surveillance and to reducing the potential for accidents and collisions involving wildlife.

6. Monitoring

Monitoring of the STP2 will be commenced once the Plan is adopted. This is currently planned for March 2024. This in accordance with the SEA Directive and Regulation 17 of The Environmental Assessment of Plans and Programmes Regulations 2004. It requires the organisation who created and adopted the Plan, in this case TfN, to monitor how it is implemented to identify any unforeseen effects and to take action to resolve these effects.

Monitoring for the Plan will cover social, environmental and economic effects and it will include indicators that will enable the link between the implementation of the Plan and the likely significant effects (both positive and negative) to be monitored. A bespoke monitoring framework has also been developed to specifically monitor those effects relevant to the ISA2 objectives. The monitoring framework is outlined in Section 12 of the Main ISA2 report. The monitoring arrangements will also be set out in a Post-Adoption Statement after the plan is adopted.

7. Conclusion

This non-technical summary describes the process and the findings of the ISA. This document has been revised following the consultation on the STP2 to take into account feedback received during the consultation. This revised summary is to aid in the understanding of the ISA process undertaken to support the development of the STP2.

Overall, the ISA2 process undertaken has positively influenced the development of the Plan and strengthened its sustainability performance. The Plan performs strongly against a number of ISA2 objectives, specifically: reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environmental for all. Although to a lesser extent, the Plan has also been found to have likely beneficial effects on objectives relating to: protecting and enhancing blue and green infrastructure, and conserving and enhancing historic assets, landscapes, and townscapes.

It is important to note however, that there remains areas of uncertainty or only slightly beneficial impacts relating to avoiding land contamination and promoting the prudent use of natural resources. In relation to these areas, the level of detail that could be addressed by the Plan was limited, and it was not considered proportionate to include a project design detail within the Plan policies. The areas of uncertainty should be addressed at a project level by delivery authorities. Despite this, it is considered that this plan would have a strong, positive influence on the North's transport network across environmental, economic, societal and health indicators and provides a firm basis for future transport planning for the North.

Following the Plan consultation held in Summer 2023, consultee comments have been considered and where appropriate, changes made to the ISA2. These changes, along with TfN's response to the consultee comments are documented within Appendix F. The next stage is to adopt the plan, which is planned for March 2023. Once the plan is adopted by TfN, a post-adoption statement will be written as part of stage E of the IA process. The purpose of the post-adoption statement is to set out how the IA report and consultation responses have been considered, how reasonable alternatives have been evaluated and the reasons for choosing the plan as adopted and the monitoring measures in place to track the effects of the implementation of the plan.

A.1 Changes made to the Post-Consultation Non-Technical Summary

Text added = underlined

Text removed = Strikethrough

Amendment	Post Consultation Summary Change
Addition of text	This non-technical summary has been revised and is a post-consultation summary following the consultation on the STP2 to take into account consultation feedback received during the
explaining the	consultation. This revised summary is to aid in the understanding of the Integrated Assessment (IA) process undertaken to support the development of the STP2. Consultation responses raised
summary has been	that ISA2 documents were complex and technical. Therefore, this post consultation summary uses the same information within the consultation summary, however explanations have been
updated following	summarised in a different format to help understanding of ISA2. The content and results of the assessment have not changed, it is only the format in which this is presented that has changed. A
consultation feedback	list of changes between the consultation and post-consultation summaries can be found in Appendix A.
and update following	
the consultation	
Updated Plan Area	TfN Plan Area map from 2024
map to reflect the	
LPA boundary	
changes which have	
taken place since the	
consultation	
Minor wording	The ISA2 is the second iteration of the ISA. Building on the previous body of work, the The ISA2 supports the development of the STP2Plan. The ISA2 aim is to promote sustainable
changes in section 2.1	development, health and equality, social, environment and economic considerations within the STP2Plan. The ISA2 and STP2Plan have progressed together, allowing ISA2 recommendations
	<u>from the ISA2</u> to be included as the <u>STP2-Plan has</u> developsed.
	The ISA2 meets the requirements of:
	• Strategic Environmental Assessment (SEA) in accordance with the Environmental Assessment of Plans and Programmes Regulations 2004 (SI 2004/ 1633, "2004 Regulations" as
	amended).
	• Sustainability Appraisal (SA) (as required by section 19 (5) of the Planning and Compulsory Purchase Act 2004).
	• Equality Impact Assessment (EqIA) (as required by section 149 of the Equality Act 2010, as amended).
	• Health Impact Assessment (HIA) (as outlined by national government policy).
	Further information in relation to the requirements of the above can be found in the ISA2 Main Report.
	In addition, aA Habitat Regulations Assessment (HRA) has been completed, as required under Regulation 48 of the Conservation (Natural Habitats, &c.) Regulations 1994 (SI 1994/2716,
	"1994 Regulations", as amended). The relevant scoping and assessment can be found within the HRA Stage 1 and Stage 2 Report.

Minor wording	Consultation	n is a key part of the IA process. Consultation completed to date has been on the ISA2 Scoping Report. The Scoping Report	t was shared with statutory consultation authorities and								
changes in section 2.2	other relevan	nt stakeholders in 2022. Following the consultation, all feedback was considered and the Scoping Report was updated base	ed on consultation responses.								
	Consultation responses received as part of this STP2-Plan consultation will have been considered and actioned. This is shown in Appendix F of the ISA2 Main Report. All documents relating to										
	the ISA2 have were been published as part of the STP2 Plan consultation.										
Minor wording	The ISA2 pr	rocess follows the standard Integrated Assessment (IA) stages. This Non Technical Summary and ISA2 Report is We are continuous and the standard Integrated Assessment (IA) stages.	urrently within Stage D of the IA-process.								
changes in section 2.3]								
	Stages	Overview									
	Stage A	This scoping stage is to set the context for the assessment withwhich includes ÷ a review of relevant plans, programmes and									
	Stage A	strategies; collection, analysis and summarisation of current and future baseline data; identification of key issues and									
		opportunities for the North; refinement of ISA objectives; preparation of the scoping report and consultation with statutory bodies									
		and relevant organisations.									
	Stage B	This assessment stage is to consider the proposed policy options and assess their effects, using the framework developed in stage									
		A including assessing the vision and objectives of the Plan and reasonable alternatives, identifying mitigation measures,									
		explaining why the preferred policy options were taken and to propose monitoring measures for the policies.									
	Stage C	This reporting stage involved preparing the IA report which explains Stage B.									
	Stage D	This consultation stage involves consulting of the proposed Plan (STP2) and associated IA, with feedback from the consultation considered and appropriately actioned.									
	Stage E	The Post-Adoption stage will involve the creation of the Post Adoption Statement following the adoption of the Plan. The									
		statement will include an explanation of how the IA report and consultation responses have been considered, how									
		reasonable alternatives have been evaluated and the reasons for choosing the plan as adopted and the monitoring									
		measures in place to track the effects of the implementation of the plan.									

To undertake the IA stages above, the IA uses an 'assessment framework' against which to challenge and test the emerging Plan. The IA Framework is used to identify the likely social, economic and environmental effects of the Plan, recommend ways of avoiding or reducing any negative impacts, but importantly, also recommending ways to further enhance the policy.

This framework of objectives is created as part of stage A. The ISA2 has a framework of 16 objectives covering sustainable development, health and equality, social, environment and economic considerations topics.

These objectives are bespoke for this Plan. Each objective has assessment criteria which help the assessment team to decide if the Plan policies meet the objective. The objectives are outlined here:

- 1. Reduce greenhouse gas emissions from surface transport in the North
- 2. Minimise embedded emissions from the development of new transport infrastructure and the maintenance of existing infrastructure
- 3. Protect and enhance the biodiversity, geodiversity and the green infrastructure network
- 4. Conserve and enhance internationally designated environment sites
- 5. Protect and enhance local air quality
- 6. Increase resilience of the transport network to extreme weather events and a changing climate
- 7. Protect and enhance the blue infrastructure network including inland and coastal water environments
- 8. Protect and conserve soil and remediate and avoid land contamination
- 9. Support the conservation and enhancement of the quality and distinctiveness of historic assets, industrial and cultural heritage and their settings
- 10. Protect and enhance the character and quality of landscapes and townscapes
- 11. Promote the prudent use of natural resources, minimise the production of waste and support the re-use and recycling of materials
- 12. Enhance long term economic prosperity and promote a clean and green economic transformation
- 13. Coordinate land use and strategic transport planning across the region
- 14. Promote greater equality of opportunity for all citizens and reduce Transport Related Social Exclusion (TRSE), particularly for the North's most vulnerable groups.
- 15. Improve the health and wellbeing for all citizens and reduce inequalities in health
- 16. Promote community safety and reduce crime and the fear of crime for all citizens

1.1-

The ISA2 has a framework of objectives covering sustainable development, health and equality, social, environment and economic considerations.

to understand their effects on these sustainability aspects. We've assessed the strategic ambitions, the plan policies and reasonable alternatives to the Plan. This has been completed as part of stage B. with consideration given to existing and future baselines, issues and trends relevant to each objective. This is to understand the extent to which the STP2 objectives, policies and reasonable alternatives are likely to contribute towards the achievement of the ISA2 objectives.

Each objective and policy is assessed for the effect it has against each objective. It is scored by following Table 2 below.

Table 2: ISA2 Assessment Outcomes

+++	Largely Beneficial
<u>++</u>	Moderate Beneficial
±	Slightly Beneficial
0	<u>Neutral</u>
=	Slightly Adverse
=	Moderate Adverse
	Strongly Adverse
?	<u>Uncertain</u>
<u>+/-</u>	<u>Combination</u>

Combined symbols are sometimes used in the assessment (e.g. '+/?' or '-/?'). This happens because there is a strong likelihood of both positive and negative effects for example, but that there is not enough information to know for certainty at this stage. Alternatively, there may be a combination of positive or negative effects, depending on how the policy is delivered.

The assessment also seeks to identify if the likely effects are direct, indirect, temporary and/or permanent. The assessment also considers whether the effect will be a local or on a regional scale.

Where applicable, a description of what could be affected is also given, along with any cumulative, secondary or synergistic effects which might occur. When thinking about the effect of the thematic policies (such as road or rail for example), the types of effects a policy could have are also considered over the short-, medium- and long-term.

The Plan's strategic ambitions, called objectives within this assessment, were assessed with different assessment outcomes; 'Potential Conflict', 'Dependent Upon Nature of Implementation Measures', 'Broadly Compatible' and 'Not Relevant'. This was because the ISA2 needed to test their compatibility with the ISA2 Objectives.

Further information regarding the methodology used as part of the ISA2, is included within the ISA Main Report within Section 2

Within the ISA2, we have acknowledged where there is uncertainty within the plan when being scored against the ISA2 objectives. Where proposed mitigation to strengthen the plan is outside of TfN's control, we have not felt it appropriate or proportionate for the plan to be amended. Therefore, whilst TfN would not have direct responsibility over these areas, we have highlighted this to support collaborative working between TfN and delivery authorities to minimise environmental and social impacts, as explained in the Action and Impact Framework within the STP2.

1.1.1 Objectives Assessment

The objectives assessment is done to ensure, where appropriate, sustainability is embedded in the objectives and ambitions of the plan. We have checked the three strategic STP2 ambitions against the ISA2 Framework to see where they were compatible or where there was a conflict. This has been done using the key shown in Table 2. This was done for each draft STP2 plan.

Table 2: STP2 ISA2 Objectives Kev

≠	Broadly Compatible
X	Potential Conflict
?	Dependent upon nature of implementation measures
NR	Not relevant

1.1.2 Policy Assessment

The plan's policies were assessed within each draft of the STP2. The policies were scored on a nine-point scoring system, shown in Table 3Error! Reference source not found., to assess the significance of potential effects of the STP2. This system included colour and symbols from 'largely beneficial' to 'strong adverse'. The scoring system also considered scale, duration, permanence, certainty, primary or secondary, direct or indirect, cumulative and synergistic potential effects.

Table 3: Assessment Tables Key

Terms		Effects	+				Assessment		
		Mag	Scale	Dur	T/P	Cert	Scale	Category	
Mag	Magnitude	++	Local	ST-	Temp	Low	+++	Large	
				MT				beneficial	
Scale	Geographic Extent	≠	Loc-	ST-	Perm	Med	++	Moderate	
			Reg	LT				beneficial	
Dur	Duration	-	Reg-	MT-		High	+	Slight	
			Nat	LT				beneficial	
T/P	Temporary/Permanent	?		ST			0	Neutral	
Cert	Certainty	X		MT			_	Slight	
								adverse	
ST	Short Term	XX		LT			_	Moderate	
								adverse	
MT	Medium Term							Strong	
								adverse	
LT	Long Term						?	Uncertain	
Sm	Summary Assessment						+/-	Combination	

As part of the assessment, mitigation and enhancement has been suggested. Mitigation includes recommendations to reduce any significant negative effects. Enhancement includes recommendations to improve positive effects further.

1.1.3 Reasonable Alternatives Assessment

Reasonable alternatives need to be considered as part of the ISA2. Alternative scenarios, developed by TfN, were assessed on the same scoring system as the plan policies to understand the significance of potential effects of each of the alternatives on the plan area. Mitigation and enhancements measures were also given to strengthen the scenarios as part of this process. It is important to note that scenarios may not be developed to the same level of detail as policies within the STP2 consultation plan.

2. ISA2 Framework

The ISA2 Framework includes 16 objectives covering sustainable development, health and equality, social, environment and economic considerations. These objectives are bespoke for the STP2. The objectives are shown in table 4. Each objective also has assessment criteria which help guide the assessment team to decide if the STP2 policies meet the objective. There are also sub-objectives for the EqIA and HIA as part of the ISA2. These are shown in tables 5 and 6.

Table 4: The ISA2 Framework

ISA2 Objective

Reduce greenhouse gas emissions from surface transport in the North

Minimise embedded emissions from the development of new transport infrastructure and the maintenance of existing infrastructure

Protect and enhance the biodiversity, geodiversity and the green infrastructure network

Conserve and enhance internationally designated environment sites

HRA Macro-Objective

Protect and enhance local air quality

Increase resilience of the transport network to extreme weather events and a changing climate

Protect and enhance the blue infrastructure network including inland and coastal water environments

Protect and conserve soil and remediate and avoid land contamination

Support the conservation and enhancement of the quality and distinctiveness of historic assets, industrial and cultural heritage and their settings

Protect and enhance the character and quality of landscapes and townscapes

Promote the prudent use of natural resources, minimise the production of waste and support the re-use and recycling of materials

Enhance long term economic prosperity and promote a clean and green economic transformation

Coordinate land use and strategic transport planning across the region

Promote greater equality of opportunity for all citizens and reduce Transport Related Social Exclusion (TRSE), particularly for the North's most vulnerable groups.

EqIA-Maero-Objective

Improve the health and wellbeing for all citizens and reduce inequalities in health

HIA-Maero-Objective

Promote community safety and reduce crime and the fear of crime for all citizens

HIA-Maero-Objective

Table 5:	Table 5: EqIA Sub-Objectives				
No.	ISA2 Objective	Sub-Objective	Assessment Criteria	ISA Topic	
14a	Transport Related Social Exclusion (TRSE), particularly for the	we extent and y of public travel ctive travel ctions to services, ies and amenities	Will the STP2 Support improved access to essential facilities, including employment, healthcare and education, particularly for those on low incomes, people with disabilities and long term health conditions, carers, and those in areas with a high risk of transport related social exclusion? Support improved walking, cycling and public transport services and facilities in areas with a high risk of TRSE? Support improved high quality green infrastructure? Promote a transport system that meets the needs of everyone, including those with a physical or learning disability and those with limited mobility? Encourage the provision of transport services that are welcoming for all groups of society to increase availability of travel options? Support the improved access to information for all users for the purpose of promoting travel options?	Population	

1	14b	Promote greater equality of opportunity for all citizens, and reduce Transport Related Social Exclusion (TRSE), particularly for the North's most vulnerable groups.	Improve affordability of transport	 Will the STP2 Support the provision of transport services that are financially accessible for all? Facilitate the provision of transport services that provide appropriate and/or statutory fare structures for vulnerable users (i.e. concessionary fares on public transport services)? Promote the use of technology to reduce transport costs for users, e.g. integrated ticketing and smart cards? 	Population	
1	14e	Promote greater equality of opportunity for all citizens, and reduce Transport Related Social Exclusion (TRSE), particularly for the North's most vulnerable groups	Reduce severance	 Support the enhancement of better access to essential facilities and community assets to reduce any existing severance issues? Consider the physical and perceived impact of the transport system on the local environment and local communities? Support the reduction in the dominance of traffic on residential roads and in proximity to key services? Support the improvement of public realm and overall environment and reduce road vehicle behaviours that affect accessibility for active and public transport users in areas with a high risk of TRSE (e.g. pavement parking)? 	Population	

Table 6: HIA Sub-Objectives				
No.	ISA2 Objective	HIA Sub-Objective	Assessment Criteria	ISA Topic Matters
15a	Improve the health and wellbeing for all citizens and reduce inequalities in health	Improve accessibility to services and facilities that improve health outcomes	 Support residential, commercial, community facilities and recreational developments that are accessible by active travel and public transport, including for vulnerable groups? Prevent disproportionate health benefits/harms for some groups more than others? Promote accessibility (particularly on foot, cycling or public transport) to open space, nature and recreational activities (e.g. playing fields, sports facilities, footpaths or National Trails), particularly for vulnerable groups? Encourage more people to integrate physical activity into their everyday journeys (either as complete active travel journeys or as part of a multi-modal journey)? Prevent impacts on the quality and extent of existing recreational assets, such as formal or informal footpaths including National Trails? 	Human Health and Healthcare Population

15b	Improve the health and wellbeing for all citizens and reduce inequalities in health	Reduce transport related vibration, air and noise pollution.	Will the STP2 • Support the reduction of the transport impact on vibration, air quality and noise, particularly around vulnerable users such as children, older people and deprived areas?	Human Health and Healthcare Population
16a	Promote community safety and reduce crime and the fear of crime for all citizens Community Safety Micro-Objective	Improve road safety and reduce the number of accidents and other incidents	 Promote the enhancement of road safety and reduce the number of road traffic incidents for everyone but particularly for vulnerable users Support the reduction of levels of private car use, reduce levels of car dominance (e.g. pavement parking) and providing safer environments for everyone those walking, cycling, and wheeling? Reduce the potential for collisions and accidents involving wildlife, particularly protected species, which could affect the safety of people using the transport network, the efficiency of that network and the future of individuals and populations of protected species? 	Human Health and Healthcare Population

	16b	Promote community safety and reduce crime and the fear of crime for all citizens Community Safety Micro-Objective	Improve actual and perceived safety and security issues	Will the STP2 Promote improvements of public realm and levels of natural surveillance to create a more welcoming environment for travel, physical activity, and accessing key facilities? Promote increased provision of safe facilities for those utilising public transport, walking and cycling? Create a more welcoming environment for travel and accessing key facilities for all, but particularly women, those with disabilities, LGBT people, low-income groups and ethnic minorities?	Human Health and Healthcare Population
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Change of wording in Section 3.1 to simplify technical wording and update following January 2024 reassessment

Three Four assessments on the STP2's strategic ambitions, called objectives within this assessment, have been undertaken in November 2022, January 2023, and March 2023 and January 2024 as the pPlan developed. The STP2-Plan had has 3 objectives considered throughout all stages:

- Transforming Economic Performance.
- Rapid Decarbonisation of Surface Transport.
- Reducing Transport Related Social Exclusion which changed to Enhancing Social Inclusion and Health in March 2023

The objectives were assessed in January 2024 following changes made to the plan after the public consultation. Each of the STP2 objectives provided by TfN also had a number of sub-objectives which were also considered as part of this assessment. This summary focuses on the assessment on the consultation plan held in March 2023. This summary focuses on the assessment on the consultation plan held in March 2023. Information on the two previous assessments can be found in the main report.

2.1.1—November 2022

The assessment found that there were no STP2 plan objectives scored with a 'Potential conflict' against the ISA2 objectives. Three ISA2 objectives found to be scored as 'Dependent upon nature of implementation measures' or 'Not relevant' across the three STP2 plan objectives.

2.1.2 January 2023

The assessment found that there were no STP2 plan objectives scored with a 'Potential conflict' against the ISA2 Objectives. It was found that all ISA2 Objectives found to be scored at least once as 'Broadly compatible' across the STP2 plan objectives following action taken by TfN to update the STP2, following our first assessment in December 2022. Therefore, no areas of specific focus and consideration were given due to the strengthened text within the STP2's objectives. The revised STP2 Objectives were found to provide a firm underpinning to help ensure that the sustainability performance of the plan can be maximised.

2.1.3 March 2023 Assessment Summary

This iteration of the assessed the STP2 objectives contained within the consultation version of the STP2. The assessment found that there were no STP2 Plan objectives scored with a 'Potential Ceonflict' against the ISA2 objectives. However, the assessment found that Following change in wording within Objective 1, the Objective improved its score scored lower with three objectives changing from 'Dependent Upon Nature of Implementation Measures' to 'Bbroadly Ceompatible' to 'dependent upon the nature of implementation measures' compared with the January 2023 assessment scores against ISA2 Objective 5 (protecting and enhancing air quality). Objectives 2 and 3 also had wording changed however they were found to score the same as in March 2023.

Therefore, the assessment found that the plan's objectives provide a strong basis due to the change in wording included within the objective. to help ensure that the sustainability performance of the plan can be maximised.

From this assessment, it is considered that objective 1 provides a weaker basis to ensure the sustainability of the plan can be maximised, compared to that assessed in January 2023. To strengthen the STP2 objectives, the TfN plan writers were encouraged to make clearer and stronger economic ambitions for the North to improve the ISA2 assessment outcomes. Information on the two previous assessments and more information about this assessment can be found in the ISA2 Main Report.

Change of wording in Section 3.2 to simplify technical wording and update following January 2024 reassessment

TfN identified three reasonable alternative scenarios. The alternative scenarios were developed through the development and implementation of STP1 and informed by the ongoing evidence base work TfN are undertaking. The ISA2 provides an assessment of each alternative against the ISA2 objectives and helps to enhance the transparency of the decision-making process, as part of the development of the STP2.

In light of consultation feedback, in January 2024, we revisited how the how the previous scoring against ISA objectives 1,9 and 13, had been applied.

The result of this assessment in January 2024, was:

• an amendment improving the scoring for Local Modal Shift Max scenario against ISA2 objective 1;

- an amendment reducing the scoring for Continuation of STP1 scenario against ISA2 objective 9;
- an amendment reducing the scoring for Balanced scenario against ISA2 objective 9;
- an amendment to the scoring for Local Modal Shift Max scenario from 'neutral/uncertain' to 'uncertain' against ISA2 objective 9;
- amendment in relation to objective 13, reducing scoring for the Balanced scenario; and
- amendment in relation to objective 13, improving scoring for the Local Modal Shift Max scenario.

Considering these changes to the assessment scores, the overall conclusion of the alternatives assessment remained consistent with previous iterations of assessment in finding that the 'Balanced Scenario' performed the best overall across the ISA2 Objectives. The 'Continuation of STP1 Scenario' performed well against the ISA2 Objectives, with a slight, moderate or largely beneficial impact against seven objectives. The Local Modal Shift Max Scenario scored similarly to the Continuation of STP1 Scenario, albeit with strengths in different areas. Across all three scenarios, it will be key to ensure any adverse effects are reduced and beneficial effects are enhanced where possible through the carefully considered and identified mitigation measures.

In order to assess the three alternative scenarios against the ISA2 Objectives, a series of assumptions were developed for each. These assumptions, developed by TfN, were based on what are considered likely outcomes from each of the scenarios. The three alternative scenarios and ISA2 assumptions are defined in Table 7 Error! Reference source not found. below.

Table 7: Alternative Scenarios and Assumptions

Scenario Description	Assumptions				
Scenario 1 – Co	ontinuation of STP1				
Assumes the provisions and ambitions of STP1 are still in place.	 Implementation of a vision of a thriving North of England, where world class transport supports sustainable economic growth, excellent quality of life and improved opportunities for all. The objectives of the STP1 are: Transforming economic performance; increasing efficiency, reliability, integration and resilience in the transport system; improving inclusivity, health, and access to opportunities for all; and promoting and enhancing the built, historic and natural environment. 				
	 This scenario focuses investment on seven identified strategic development corridors that reflect economic links across the North. Each of the Strategic Development Corridors will have a different scale of contribution towards achieving the outcomes of transformational economic growth and therefore different transport needs. However, investment in all the corridors is critical to the collective ambitions of Transport for the North and Partners. 				

Travel, economic and population growth assumption in line with the Core Scenario within NTEM 2022 ¹ and that National Road Traffic Projections 2022 ² . The Core Scenario is based on 'firm and funded' government policy and published plans. Secnario 2 — Balanced Assumes the provisions and ambitions within STP2 are introduced. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport. The STP2 sets out policy priorities for 9 distinct place types across the North.
Scenario 2 - Balaneed Assumes the provisions and ambitions within STP2 are introduced. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
Assumes the provisions and ambitions within STP2 are introduced. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
Assumes the provisions and ambitions within STP2 are introduced. The STP2 builds on the original vision in the 2015 Northern Transport Strategy and the first Strategic Transport Plan with a renewed focus on decarbonisation and social opportunity. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
The STP2 builds on the original vision in the 2015 Northern Transport Strategy and the first Strategic Transport Plan with a renewed focus on decarbonisation and social opportunity. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
Strategic Transport Plan with a renewed focus on decarbonisation and social opportunity. By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
 ambitions within STP2 are introduced. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
 By 2050 the North of England will have become a thriving, socially inclusive region. This will be achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
achieved through a transformed zero emission, integrated, safe and sustainable transport system, that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
 that will enhance connectivity, resilience, and journey times for all users. The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
The STP2 vision is supported by three clear strategic ambitions: enhancing social inclusion and health; transforming economic performance; and rapid decarbonisation of surface transport.
health; transforming economic performance; and rapid decarbonisation of surface transport.
The STP2 sets out policy priorities for 9 distinct place types across the North.
• The STP2 sets out policy priorities for 9 distinct place types across the North.
· · · · · · · · · · · · · · · · · · ·
The STP2 retains the seven Strategic Development Corridors identified within the STP1.
• The STP2 proposes, as a minimum, a position of no 'net' road traffic growth in the North from a
2018 baseline to 2045. This recognises the significant social, economic and environmental benefits
that may be derived from reducing car dependency and that greater priority should be given to
sustainable modes when considering highway investment.
Road capacity works would be supported, where primarily driven by safety improvement needs or
where there is compelling evidence it is required to deliver significant economic and social
benefits.
Scenario 3 - Local Modal Shift Max
Assumes a Shares the strategic ambitions of STP2 but aims to achieve them through a stronger focus on
shift of focus reducing road vehicle mileage, relative to technological change.

¹-National Trip End Model (NTEM) - data.gov.uk

² National Road Traffic Projections 2022 - Core Scenario - National road traffic projections 2022 (publishing.service.gov.uk)

(relative to the • Prioritised investment at local level. **Balanced** Scenario) • Objective to achieve 20% absolute reduction in vehicle mileage within the North as a whole towards (against 2018 levels). prioritised • Fare subsidies for local public transport. investment in local public • Local road user charging schemes would be encouraged where both feasible and appropriate with and active 'revenue recycling' back into the provision of enhanced public and active travel offers for those transport local areas. infrastructure and services. • Prioritised investment into active travel and micro-mobility facilities to achieve usage rates on a par with the Netherlands. • Modal shift for longer distance trips and measures to increase rail freight will be a lesser priority. • Investment in EV transition and alternative fuels would be left to private investment to enable the transition. • A pause to all road building schemes, unless for safety reasons, would be recommended. The assessment of the three alternative scenario's found that the 'Balanced Scenario' performed the best overall across the ISA2 Objectives. The 'Continuation of STP1 Scenario' performed well against the ISA2 Objectives, with a slight, moderate or largely beneficial impact against eight objectives. The Local Modal Shift Max Scenario scored similarly to the Continuation of STP1 Scenario, albeit with strengths in different areas. Across all three scenarios, it will be key to ensure any adverse effects are reduced and beneficial effects are enhanced as appropriate through the carefully considered and identified mitigation measures. It is not the purpose of the ISA2 to decide which alternative scenario should be pursued. This is the responsibility of TfN who have considered the preferred, most appropriate strategy to be taken forward. More information on the reasonable alternatives assessment can be found in the ISA2 Main Report.

Change of wording in Section 3.3 to simplify technical wording and update following January 2024 reassessment

Three-Four assessments on the STP2's plan policies have been undertaken in November 2022, January 2023, and January 2024 as the plan developed. This summary focuses on the assessment on the consultation plan held in March 2023. Information on the two previous assessments can be found in the main report.

2.1.5 November 2022

2.1.4 <u>Assessment Summary</u>

The first assessment assessed the Policies and Place Framework, which comprised nine place-based policies, against the ISA2 framework objectives.

- Commuter Towns
- Large Conurbations

- Rural Villages and Dispersed
- Rural Town and Fringe
- Transformation Places
- Other Urban
- Visitor Destinations
- Former Metropolitan Counties
- Industrial Places

The assessment identified a number of strengths within the policies, specifically in terms of reducing greenhouse gas emissions, minimising embedded emissions, protecting local air quality, increasing resilience of the transport network, enhancing long term economic prosperity, supporting the coordination of strategic transport and land use planning and promoting inclusive environments. The assessments findings also identified areas of uncertainty in terms of conserving and enhancing historic assets, landscapes and townscapes and promoting the prudent use of natural resources.

The assessment recommended mitigation and enhancements against each of the ISA2 framework objectives, where it was considered necessary, to help improve the STP2. However, it was acknowledged that the mitigation given to enhance these policies may be included within the remaining policies in the draft STP2 which we had not yet received, or therefore assessed.

2.1.6 January 2023

In the second assessment, both thematic policies and the amended Policies and Place Framework were assessed. This assessment assessed the 13 thematic policies included in the draft STP2, which at this stage comprised:

- Rail
- Road
- Freight and Logistics
- International Connectivity
- Local Connectivity
- Rural Mobility
- Achieving more Sustainable Travel
- Active Travel
- Electric Vehicle Charging Infrastructure

- Multi-modal Hubs
- Connected Mobility
- Decarbonisation
- Transport Relation Social Exclusion

The assessment findings identified a number of strengths within the thematic policies, specifically in terms of reducing greenhouse gas emissions, minimising embedded emissions, protecting local air quality, increasing resilience of the transport network, enhancing long term economic prosperity, supporting the coordination of strategic transport and land use planning and promoting inclusive and safe environments. The assessment also identified areas of uncertainty in terms of avoiding land contamination and conserving soil, conserving and enhancing historic assets, landscapes and townscapes and enhancing blue infrastructure networks. The assessment recommended mitigation and enhancements against each of the ISA2 objectives, where it was considered necessary, to help strengthen the STP2.

The draft STP2 plan included an amended Policy and Places Framework. This comprised of the same 9 place based policies, against the ISA2 framework objectives. The assessment findings continued to identify a number of strengths within the policies, specifically in terms of reducing greenhouse gas emissions, minimising embedded emissions, protecting local air quality, increasing resilience of the transport network, enhancing long term economic prosperity, supporting the coordination of strategic transport and land use planning and promoting inclusive and safe environments. However, areas of uncertainty found from the assessment included those related to conserving and enhancing historic assets, landscapes and townscapes and conserving soil and land remediation. The assessment again recommended mitigation and enhancements against each of the ISA2 framework objectives, where it was considered necessary, to help strengthen the STP2.

2.1.7 March 2023 Assessment Summary

This assessment The March 2023 assessment and January 2024 assessment, assessed the four thematic policies included in the draft STP2Plan, which comprised:

- Rail
- Road
- Freight and Logistics
- Local Connectivity

The other plan policies from January 2023 had been removed as separate policy sections, with some incorporated into the four remaining themes.

The assessment findings identify a number of find strengths in the thematic policies when assessed performed well against the ISA2 objectives in the March 2023 and January 2024 assessments.

The policies scored well in terms of reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environments for all, which support the three overarching ambitions of STP2.

The January 2024 assessment found changes to ISA2 objectives 1, 2, 5, 6, 7, 13, 14, 15 and 16 across the Thematic Policies which improved the policies performance since the March 2023 assessment. For example, the Road Thematic Policy improved from 'Slightly Beneficial' to 'Largely Beneficial' on the short-term timeframe due to policy wording being added which provides greater explicit references to alternative fuels, impacting on reduction of greenhouse gas emissions.

However, the March 2023 and January 2024 assessment findings also found areas of uncertainty surrounding avoiding land contamination conserving and enhancing historic assets, landscapes and townscapes. The January 2024 found one change to ISA2 objective 12 (enhancing long term economic prosperity), which reduced the 'Rail' policy performance since the March 2023 assessment. This assessment outcome reduced from 'Largely Beneficial' to 'Moderately Beneficial' in the long-term timeframe due to changes in the within the policy wording to reflect the recent cancellation of the HS2 rail link to the North of England. These wording changes make the policy less specific and therefore the ISA can be less certain about the extent to which the ISA objective will be met in the long-term. However, the overall assessment score for the policy remains 'Moderate Beneficial' across short, medium and long-term timescales in supporting long term economic prosperity for the North of England. No further recommendations were identified following this change.

Table 3 summarises the findings of the January 2024 assessment of thematic policies against each ISA2 objective.

However, the assessment findings also identify <u>find_areas of uncertainty across the thematic policies_, specifically surrounding protecting and enhancing the blue infrastructure network, avoiding land contamination conserving and enhancing historic assets, landscapes and townscapes. Table 8 summarises the findings of the March thematic policies against each ISA2 Framework objective.</u>

In addition, the amended nine policy sections within the Policies and Place Framework, which was now located in Annex 1 of the plan, were also assessed. In previous assessment rounds, appendices were excluded from the ISA2 assessments however, in this final assessment, the Policy and Place Framework within Annex 2 were assessed. This was undertaken due to the significant contribution the Policy and Places Framework is considered to have on the implementation of STP2 and the Framework being considered as 'policy' which would be used specifically to guide development of the North's transport network.

The March 2023 assessment findings continued found to identify find a number of a number of strengths in the Policy and Places Framework when assessed against the ISA2 objectives. The policies scored well in terms of reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environments for all which support the three overarching ambitions of STP2Plan. Following changes made based on our recommendations from the initial assessment of the STP2, tThe Policy and Places Framework also scores strongly against protecting and enhancing blue and green infrastructure, conserving and enhancing historic assets, landscapes and townscapes.

The assessment findings also identify findalso found areas of uncertainty or only slightly beneficial impacts across the Policy and Places Framework. Mitigation and enhancement have therefore been recommended to help strengthen the policies against certain ISA2 Framework Objectives. The Policy and Places Framework relates to distinct place types, therefore whilst certain policies were not scored did not perform strongly it was not considered proportionate to amend the policy wording where it had instead been addressed elsewhere within the STP2Plan. Therefore, mitigation was not identified where it was considered felt to be addressed when the STP2Plan was read as a whole. Table 49-summarises the findings of the assessment of the Policy and Places Framework policies against each ISA2 Framework objective. These policies were not assessed in January 2024 as only a minor level of changes were made to the policy wording withinthe Plan as a result of the consultation, and those changes did not materially affect or impact on the ISA objectives.

It should also be noted that some of a number of the recommended enhancement measures actions across both the thematic policies and the Policy and Places Framework to address these identified uncertainties would need to be considered at the design stage or project level and therefore led by delivery authorities. For this reason, it was not considered appropriate or proportionate felt this information did not need to be included within the STP2Plan. Therefore This is because, whilst TfN would not have direct responsibility over these measures, TfN would work with and influence the delivery authorities to minimise the adverse environmental and social impacts, as outlined within the Action and Impact Framework.

Therefore, when the plan is read as a whole, the STP2 provides a firm basis for future transport planning for the North.

<u>Information on the two previous assessments and more information about this assessment can be found in the ISA2 Main Report.</u>

Table 49: Summary of assessment scores for the STP2 Policy and Place Framework (March 2023)

Policy and Place Framework	ISA2	Frame	work O	bjective	es				-											
Framework	1	2	3	4	5	6	7	8	9	10	11	12	13	14a	14b	14c	15a	15b	16a	16b
Commuter Towns	+++	++	++	+	++	++	++	0/?	+/?	+	+	++	++	++	+++	++	++	+	+	+
Large Conurbations	+++	++	++	++	+++	+++	++	0/?	+++	+++	+	+++	+++	+++	+++	+++	+++	+++	++	++
Rural Villages & Dispersed	+++	++	+/?	+	++	+	0	0/?	+	+	+	++	++	++	+++	++	++	++	++	++
Rural Town and Fringe	+++	++	++	+	+++	++	++	0/?	++	++	+	++	++	++	++	++	++	++	++	++
Transformational Places	+++	++	+	+	+++	++	0/?	+/?	0/?	+	+	+++	++	++	++	++	+	+++	++	0/?
Other Urban	++	++	++	++	+++	++	++	+	+++	+++	+	++	++	++	++	++	++	++	++	++
Visitor Destinations	+++	+	++	++	+++	++	+	0/?	++	++	+/?	++	++	++	++	++	++	++	++	++
Former Metropolitan Counties	+++	+	+	+	+++	+	0/?	0/?	+/?	+/?	+/?	+++	++	++	+	++	++	+	++	++
Industrial Places	+++	++	++	+	++	++	++	0/?	+++	+	+	+++	+++	++	+	++	++	+	++	+

Table 83: Summary of assessment scores for the STP2 Thematic Policies (March_January 20234)

Thematic	ISA2 Framework Objectives																			
Policies	1	2	3	4	5	6	7	8	9	10	11	12	13	14a	14b	14c	15a	15b	16a	16b
Rail	+++	+/?	+/?	+/?	+++	+	0/?	0/?	0/?	+	++	++	++	+++	+++	+++	++	+++	++	+++
Roads	+++	++	++	0	++	+++	+	0/?	0/?	+	+	++	++	++	+	++	++	++	++	+ <u>+</u>
Freight and International Connectivity	++ <u>±</u>	±++	+/?	+/?	+++	++	<u>+0/?</u>	0/?	0/?	+	++	++	++	++	++	++	++	++ <u>+</u>	++	++
Local Connectivity	++	++	+	?	+	+	0	0	0	+	+	++ <u>+</u>	++	++	++	++	++	++	++	+

Change of wording in Section 4 to simplify technical wording and The ISA2 has considered cumulative, synergistic and indirect effects, as explained within Section 2 of this summary. These are defined as:

• Indirect effects are not a direct result of the plan but occur as a result of actions. An example of this would be development that changes a water table, therefore affecting the ecology of a nearby wetland.

- Cumulative effects are where several insignificant individual effects have a combined significant effect. An example of this would be noise or dust pollution from multiple new developments.
- Synergistic effects are where a total effect is greater than the sum of the individual effects. An example of this would be a wildlife habitat becoming progressively fragmented with limited effects on a particular species until the last fragmentation makes the areas too small to support the species.

The identification of these effects already takes into account the fact that TfN have taken on board earlier recommendations to improve the sustainability performance of the STP2. Table 10 outlines the results of this analysis. Overall, 11 effects from the Plan were identified as part of the ISA2 and these vary across environmental, social and economic effects. For example, a mix of cumulative positive and negative effects would likely be had on biodiversity across the North from the Plan and intentions derived from it. The use of land for new infrastructure, including for example transport infrastructure, commercial uses and housing could result in habitat degradation, loss or fragmentation. However, positive effects are anticipated following the introduction of the Environment Act (2021) with the 10% BNG requirement and Local Nature Recovery Strategies.

Another example being historic assets across the North. It would be likely that a mix of negative and positive effects on historic assets, industrial and cultural heritage and their settings would likely be had across the North from the Plan and intentions derived from it. Better integrated and more accessible sustainable transport modes could improve access to heritage sites, however changes to transport infrastructure could have potential negative effect on the integrity and setting of heritage assets that form part of the transport network without appropriate mitigation measures.

The completed list of identified effects are explained in more detail in the ISA2 Main Report within Section 10.

Table 10: Anticipated cumulative, synergistic and indirect effects

Effects	Causes	Affected-Receptor	Significance
Greenhouse gas	It is considered that the STP2 will help to result	Population	Climate change is a global phenomenon meaning that
emissions	in a fall in GHG emissions due to the	Wildlife habitats	greenhouse gas concentrations in the atmosphere are
	decarbonisation of the transport network and		likely to increase during the STP2 period as a result of
	delivery of better integrated public and active	Transport Infrastructure	human activities on a global scale.
	travel modes, as well as the development and		Anticipated medium to long term benefits as
	increased use of sustainable modes of transport.		interventions are developed and uptake of low and zero
	Uptake of electric and zero-emission vehicles is		emission vehicles develops.
	also anticipated to bring major benefits.		

Biodiversity	It is considered that the STP2 and interventions	Wildlife habitats	The use of land for new infrastructure, including for
	derived from it will result in a mix of	Flora and Fauna	example transport infrastructure, commercial uses and
	cumulative positive and negative effects on	Fiora and Fauna	housing could result in habitat degradation, loss or
	biodiversity.	Landscapes and Townscapes	fragmentation.
			However, positive effects are anticipated following the
			introduction of the Environment Act (2021) with the 10%
			BNG requirement and Local Nature Recovery Strategies.
Sites designated for	It is considered that the STP2 and interventions	Wildlife habitats	Potential for effects on sites designated for nature
nature conservation	derived from it could result in a mix of	Flora and Fauna	conservation requirement for Habitats Regulation
	cumulative positive and negative effects on	1 1 17	Assessment to be undertaken at the appropriate stage.
	sites designated for nature conservation. It is	Landscapes and Townscapes	
	not possible to quantify these at this stage of		
	plan development.		
Air quality	It is considered that the STP2 will have a	Population	Whilst the STP2 is considered to have a cumulative
	cumulative beneficial effect on air quality. This	Wildlife habitats	beneficial effect on air quality, air emissions from the
	beneficial effect will be derived from the	Whanse nabitats	major road network and particularly congested areas
	decarbonisation of the transport network and	Flora and Fauna	remain a concern. Designation of AQMAs indicates that
	delivery of better integrated public and active		national air quality standards are unlikely to be met in the
	travel modes, as well as the development and		areas concerned. This affects the health of humans and
	increased use of sustainable modes of transport.		other species.
	Uptake of electric and zero emission vehicles is		Anticipated medium to long term benefits as
	also anticipated to bring major benefits.		interventions are developed and uptake of low and zero
			emission vehicles develops.
Blue infrastructure	It is considered that the STP2 and interventions	Population	There are anticipated positive and negative effects over
network	derived from it could result in a mix of	Wildlife Habitats	the medium to long term as measures are implemented.
	cumulative positive and negative effects on the	Flora and Fauna	
	blue infrastructure network, including inland		
	and coastal water environments. For example,		
	an increase in shipping infrastructure could		
	have a greater impact on coastal surface water		
	and the disturbance of aquatic habitats. On the		
	other hand, a reduction in emissions from road		

	vehicles and public realm improvements could result in reduced pollution benefiting the surrounding blue infrastructure network.		
Soil, agricultural	It is considered that the STP2 and interventions	Population	There are anticipated positive and negative effects over
resources and	derived from it could result in a mix of	Population	the medium to long term as measures are implemented.
contaminated land	cumulative positive and negative effects on	Wildlife Habitats	the medium to long term as measures are implemented.
Contammateu failu	soil, agricultural resources and contaminated	Flora and Fauna	
	land. For example, the development of the	Landscapes and Townscapes	
	highway network provides an opportunity for		
	positive effects relating to contaminated land,	Rivers	
	but it may also provide an opportunity for	Groundwater-	
	further land to become contaminated and could		
	potentially lead to the loss of soil / agricultural		
	resources. Effects will be experienced across		
	the north of England.		
Historic Assets	It is considered that the STP2 and interventions	Landscapes and Townscapes	The use of land for new infrastructure, including
	derived from it will result in a mix of negative	Haritaga Assats	transport infrastructure, commercial uses and housing
	and positive effects on historic assets, industrial	Heritage Assets	could result in the disturbance of heritage assets and their
	and cultural heritage and their settings across		settings. Negative effects could also be caused by human
	the north of England. For example, better		activities such as recreation, pollution and noise from
	integrated and more accessible sustainable		transport.
	transport modes could improve access to		Anticipated positive and negative effects over the
	heritage sites, however changes to transport		medium to long term as interventions are implemented.
	infrastructure could have potential negative		
	effect on the integrity and setting of heritage assets that form part of the transport network		
	without appropriate mitigation measures.		
	without appropriate integration measures.		

Landscapes/	It is considered that the STP2 and interventions	Landscapes and Townscapes	The combination of multiple developments could result
townscapes	derived from it will result in a mix of negative	Population	in the degradation of species and wildlife habitats,
	and positive effects on landscapes and	Infrastructure Heritage assets	landscapes and townscapes, with the potential to cause
	townscapes across the north of England. For		irreversible harm.
	example, a reduction in car ownership could	Wildlife Habitats	Anticipated positive and negative effects over the
	lead to a positive effect on townscapes due to	Flora and Fauna	medium to long term as interventions are implemented.
	reduced congestion, yet the siting and design of		
	new sustainable transport infrastructure could		
	impact on the setting of a landscape or		
	townscape.		
Economic growth	It is considered that the STP2 and interventions	Population	Changes in access to employment opportunities or a
	derived from it will act as a key driver to long		change in shift patterns as a result of new or improved
	term economic prosperity and promote a clean		transport infrastructure.
	and green economic transformation across the		Anticipated positive effects over the medium to long term
	north of England.		as measures are implemented.
Health and well-	It is considered that the STP2 and interventions	Population	Changes in access to health and leisure facilities, and a
being	derived from it will act to promote health and		change in local air quality as a result of new or improved
	well-being through providing greater access to		transport infrastructure.
	services and employment opportunities, in		Anticipated positive effects over the medium to long term
	particular for vulnerable groups and areas at		as measures are implemented.
	high risk of TRSE.		

Increase in flood	It is considered that the STP2 and interventions	Population	The use of land for new infrastructure, including	
risk	derived from it could result in a mix of	Infrastructure	transport infrastructure, commercial uses and housing	
	cumulative positive and negative effects on		could result in an increase in impermeable surfaces which	
	flood risk. For example, the development of the	Heritage assets	could increase the risk of flooding. The impact of climate	
	highway network provides an opportunity for	Wildlife habitats	change will also increase the risk of significant flood	
	positive effects relating to flooding, but it may	Element Elemen	events. The combination of multiple developments could	
	also provide an opportunity for increases in	Flora and Fauna	result in an increased risk of flooding, with the potential	
	flood risk. Effects will be experienced across	Rivers	to cause irreversible harm.	
	the north of England.	Groundwater-	Anticipated positive and negative effects over the	
			medium to long term as interventions are implemented.	
	(

Change of wording in Section 5 to simplify technical wording and

As part of the assessment, mitigation and enhancement has been suggested to strengthen the STP2 against the ISA2 objectives. Mitigation is where includes recommendations have been made to reduce any significant negative effects. Enhancement includes is where recommendations to have been made to improve positive effects further. Please find a summary of the most commonly

The proposed mitigation measures were largely addressed within the plan policies. Table 11 provides an overview of the recommended enhancement and mitigation measures given for the STP2

Plan against the ISA2 objectives to help further enhance the positive effects of the STP2 listed below. The completed list of identified mitigation measures are explained in more detail in the ISA2 Main Report within Section 11.-

- Measures could be taken to reduce the amount of carbon from the North's transport system. This could be enhanced by prioritising in policy, Climate Change mitigation and adaptation measures in the development of new, or improvements to existing transport infrastructure.
- There could be a greater consideration of using innovative low carbon construction materials and techniques for the development of new, or improvement of existing, transport infrastructure as well as for maintenance activities
- More complex measures could be considered to support ecological connectivity such as animal over or under passes on the road network, the development of wildflower meadows along linear features such as roads and railway lines or the active control of invasive species
- There could be greater consideration within projects to the conservation and enhancement measures of internationally designated environment sites, particularly those designated as SSSI or Natura 2000.
- There could be greater consideration to increase the understanding of the transport systems vulnerability to climate change effects, as well as to encourage adaptive management and design to respond to uncertain climatic effects.
- Further consideration could be given to the use of nature-based solutions to protect the blue infrastructure network, including aquatic habitats.
- Further opportunities could be taken to utilise areas of previously developed land and to remediate contaminated land when possible.

- Further opportunities could be taken to support supporting improved access to historic or culturally important sites by sustainable transport modes.
- The design, construction, repair and maintenance of transport infrastructure could be encouraged further to respect and enhance where possible the landscape character and townscapes of the north of England.
- Greater consideration could be given to ensuring that new or upgraded infrastructure is resource efficient and encouraging the use of recycled materials, local suppliers and locally produced materials in construction.
- Greater consideration could be given to supporting the development of connected communities and coordinating public transport infrastructure with the future development of employment and housing within 15/20-minute neighbourhoods to enable coordinated strategic planning across the plan area.
- Greater consideration could be given to reducing emissions and other aspects such as noise pollution and vibration dust which potentially effect health and well-being.
- Further opportunities could be taken to support of natural surveillance and to reducing the potential for accidents and collisions involving wildlife.

Table 11: Overview of Proposed Enhancements

ISA2 Objective	Proposed Enhancements
1. Reduce greenhouse gas	Due to the potential threats posed by climate change and the Government's commitment to reduce carbon emissions, measures should
emissions from surface	be taken to reduce the amount of carbon from the North's transport system. Reductions would largely come from a reduction in private
transport in the North.	vehicle mileage and the increased availability, accessibility and affordability of sustainable transport modes which comes across
	strongly in the STP2. This could be enhanced by prioritising in policy, Climate Change mitigation and adaptation measures in the
	development of new, or improvements to existing transport infrastructure.
2. Minimise embedded	There should be a consideration of using innovative low carbon construction materials and techniques for the development of new, or
emissions from the	improvement of existing, transport infrastructure as well as for maintenance activities. For instance, the road and rail thematic policies
development of new transport	could place more emphasis on making better use of existing infrastructure. Carbon footprint can be readily measured at construction
infrastructure and the	and operation by use of an appropriate carbon calculator. The implementation of mitigation measures will be led by delivery
maintenance of existing	authorities.
infrastructure.	
3. Protect and enhance the	The STP2 promotes good design of transport infrastructure to maximise ecological connectivity and to secure Biodiversity Net Gain.
biodiversity, geodiversity and	This is particularly important given the Environment Act 2021 which will set in to law a 10% BNG requirement on all new
the green infrastructure	development.
network.	More complex measures could be considered such as animal over or under passes on the road network, the development of wildflower meadows along linear features such as roads and railway lines or the active control of invasive species. Particular consideration needs
	to be made to protection measures in relation to any scheme which may impact directly, or indirectly, on any site designated for nature
	conservation purposes. The implementation of such mitigation measures will be led by delivery authorities and will be made at the design stage of all relevant schemes.

. Conserve and enhance	There could be particular consideration within projects to the conservation and enhancement measures of internationally designated
internationally designated	environment sites, particularly those designated as SSSI or Natura 2000. The implementation of such mitigation measures will be led
environment sites.	by delivery authorities and will be made at the design stage of all relevant schemes.
. Protect and enhance local air	None identified.
quality.	
. Increase resilience of the	It is important to increase our understanding of the transport systems vulnerability to the effects of a changing climate. Particularly as
transport network to extreme	extreme weather events become more regular, there should be consideration in policy to increase the understanding of the transport
weather events and a	systems vulnerability to climate change effects, as well as to encourage adaptive management and design to respond to uncertain
changing climate.	climatic effects.
. Protect and enhance the blue	Impact on local water resources can be addressed through planning and design for the efficient use of water, including water recycling.
infrastructure network	Consideration should be given to the use of nature based solutions to protect the blue infrastructure network, including aquatic
including inland and coastal	habitats.
water environments.	
	It is particularly important to protect aquatic habitats and coastal surface water as a result of growth in the freight shipments sector.
	Mitigation and enhancement measures should be considered to protect the natural environment. Protection and good pollution control
	measures are to be utilised during both construction and operation of transport schemes. The implementation of such mitigation
	measures will be led by delivery authorities and will be made at the design stage of all relevant schemes.
. Protect and conserve soil and	The protection of soil resources, particularly those of higher quality / areas of better agricultural lands should always be considered
remediate and avoid land	this could be done during scheme planning by careful route selection. If areas of good quality soil cannot be avoided, care should be
contamination.	taken during construction to store topsoil for later reuse—either on site as landscaping or further afield.
	Opportunities should also be taken to utilise areas of previously developed land and to remediate contaminated land when possible.
	This could include the removal / appropriate treatment of any invasive species such as Japanese Knotweed. The implementation of
	such mitigation measures will be led by delivery authorities and will be made at the design stage of all relevant schemes.
. Support the conservation and	Heritage assets may be buildings, monuments, sites, places, areas or landscapes. Consideration should be made of the character and
enhancement of the quality	setting of the heritage asset, its significance (and level of protection afforded to it), the potential for loss or harm and need for
and distinctiveness of historic	conservation. Opportunities to support supporting improved access to historic or culturally important sites by sustainable transport
assets, industrial and cultural	modes should be taken when possible.
heritage and their settings.	
	It should also be noted that due to its nature, not all heritage features may be apparent at the planning / design stage and precautions for
	unexpected discovery should be taken perhaps through an archaeological watching brief. The implementation of such mitigation
	measures will be led by delivery authorities and will be made at the design stage of all relevant schemes.

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10. Protect and enhance the	The design, construction, repair and maintenance of transport infrastructure should be encouraged to respect and enhance where
character and quality of	possible the landscape character and townscapes of the north of England. Reducing the scale of a project or making changes to its
landscapes and townscapes.	operation can help to avoid or mitigate the visual and landscape effects of a proposed project. Consideration during planning should
	also be given to appropriate siting, design of the scheme (including choice of materials) and landscaping schemes. Policy should
	therefore consider the design of transport infrastructure that protects and enhances the character of landscapes and townscapes. The
	implementation of such mitigation measures will be led by delivery authorities and will be made at the design stage of all relevant
	schemes.
11. Promote the prudent use of	Consideration during design and construction of transport schemes should be given to the waste hierarchy of prevention, reuse,
natural resources, minimise	recycling and disposal. All waste should be handled in accordance with applicable waste management legislation and the emphasis
the production of waste and	should be to minimise the volume of waste produced and the volume sent for disposal, unless it can be demonstrated that this is the
support the re-use and	best environmental outcome. Consideration should be given to ensuring that new or upgraded infrastructure is resource efficient and
recycling of materials.	encouraging the use of recycled materials, local suppliers and locally produced materials in construction. The implementation of such
	mitigation measures will be led by delivery authorities and will be made at the design stage of all relevant schemes.
12. Enhance long term economic	None identified.
prosperity and promote a	
clean and green economic	
transformation.	
13. Coordinate land use and	Consideration should be given to supporting the development of connected communities and coordinating public transport
strategic transport planning	infrastructure with the future development of employment and housing within 15/20-minute neighbourhoods to enable coordinated
across the region.	strategic planning across the plan area. However, all proposed development will require adherence to the relevant planning
	requirements. As such consideration of these requirements will be made at the design stage of all relevant schemes.
14. Promote greater equality of	None identified.
opportunity for all citizens,	
and reduce Transport	
Related Social Exclusion	
(TRSE), particularly for the	
North's most vulnerable	
groups.	
15. Improve the health and	Consideration during scheme planning and design could be given to reducing emissions and other aspects such as noise pollution and
wallbaing for all sitigans and	vibration dust which potentially effect health and well-being. The implementation of such mitigation measures will be led by delivery
wellbeing for all citizens and	1 July 1

16. Promote community safety
and reduce crime and the
fear of crime for all citizens.

Consideration is given in the STP2 to safety improvements in relation to multi-modal hubs, but specific reference to natural surveillance and to reducing the potential for accidents and collisions involving wildlife could be included.

Minor wording changes in section 6

Monitoring of the STP2 will be completed once the plan is adopted. This is currently planned for December 2023 March 2024 and is stage E of the IA process. This in accordance with the SEA Directive and Regulation 17 of The Environmental Assessment of Plans and Programmes Regulations 2004. It requires the organisation who created and adopted the plan, in this case TfN, to monitor how it is implemented to identify any unforeseen effects and to take appropriate action to resolve these effects.

Monitoring for the plan will cover social, environmental and economic effects and it will include indicators that will enable the link between the implementation of the STP2-Plan and the likely significant effects (both positive and negative) to be monitored. A bespoke monitoring framework has also been developed to specifically monitor those effects relevant to the ISA2 objectives. The monitoring framework is outlined in Section 12 of the Main ISA2 report. The monitoring arrangements will also be set out in a Post-Adoption Statement after the plan is adopted.

Change of wording in Section 7 to simply technical language and update following January 2024 reassessment This report non-technical summary describes the process and the findings of the ISA2 and -has been revised and is a post-consultation summary following the consultation on the STP2 to take into account consultation feedback received during the consultation. This revised summary is to aid in the understanding of the IA process undertaken to support the development of the STP2.

Overall, Tthe preparation of the ISA2 has strengthened the sustainability of STP2. Positively influenced the development of the Plan and strengthen its sustainability performance. The Plan performs strongly against a number of ISA2 objectives, specifically: reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environmental for all. Although to a lesser extent, the Plan has also been found to have likely beneficial effects on objectives relating to: protecting and enhancing blue and green infrastructure, and conserving and enhancing historic assets, landscapes, and townscapes.

To ensure transparency throughout the ISA2 process, it was agreed that there would be two conclusions; the first summarising the assessment findings when considering only the policies within the consultation STP2 plan (main plan document), and the second summarising the assessment findings when considering the STP2 Vision, Ambitions and Objectives in Annex 1 and the STP2 Policy and Places Framework in Annex 2, in addition to policies included within the consultation STP2 plan (main plan document).

When considering the STP2 plan (main plan document) without the Annexes, the policies provide a strong strategic direction for transportation infrastructure across the plan area. These policies perform well against the ISA2 objectives, specifically in reducing greenhouse gas emissions and protecting local air quality; enhancing long term economic prosperity; and promoting inclusive and safe environments for all which support the three overarching ambitions of STP2. However, the assessment findings also identify areas of uncertainty, specifically surrounding protecting and enhancing the blue infrastructure network, avoiding land contamination, conserving and enhancing historic assets, landscapes and townscapes.

When examining the consultation plan (main plan document) with the Annexes 1 and 2, this complete plan provides a more robust policy foundation for future growth within the plan area. The complete plan performs well against the ISA2 objectives, specifically in protecting and enhancing blue and green infrastructure, and conserving and enhancing historic assets, landscapes, and

townscapes. It is important to note however, that there are areas of uncertainty or only slightly beneficial impacts remain relating to avoiding land contamination and promoting the prudent use of natural resources.

It is important to note however, that there remains areas of uncertainty or only slightly beneficial impacts relating to avoiding land contamination and promoting the prudent use of natural resources. In relation to these areas, However, the level of detail that could be addressed by the STP2-Plan was limited limited, and it was not considered proportionate to include this level of detail within the STP2-Plan policies. The identified areas uncertainty ies should be addressed at a project level by delivery authorities. Despite this, it is considered that this complete plan would have a strong, positive influence on the North's transport network across environmental, economic, societal and health indicators and a firm basis for future transport planning for the North.

Following the Plan consultation held in Summer 2023, responses have been considered and actioned. The changes following these comments are documented within Appendix F. The next stage is to adopt the plan, which is planned for March 2023. Once the plan is adopted by TfN, a post-adoption statement will be written as part of stage E of the IA process. The purpose of the post-adoption statement is to set out how the IA report and consultation responses have been considered, how reasonable alternatives have been evaluated and the reasons for choosing the plan as adopted and the monitoring measures in place to track the effects of the implementation of the plan.

TfN are now seeking comments from consultees on STP2's policies, evidence and supporting annexes, including the ISA2 and HRA. Following the STP2 plan consultation, responses will be considered and appropriately actioned. Any changes will be documented as part of stage D of the IA process. Following this, a post adoption statement will be written as part of stage E of the IA process once the plan is adopted by TfN.