Appr	aisal Summary Table		Date produced: 2 July 2020		Co	ontact:
	Name of scheme:	A10 Cambridge to Ely Dualling and Junctions Project			Name	Rowland Potter
D	Description of scheme:	Option A. Full-length dualling, offline between A14 and Cambridge Research Park, ma with bypass to the west of Stretham	ainly online along the rest of the corridor except fo	r pinchpoints,	Organisation Role	CPCA Promoter/Official
	Impacts	Summary of key impacts	Asse: Quantitative	sment Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/ vulnerable grp
Economy	Business users & transport providers	The highest benefits are generated by options A and B, which both offer online full length dualling and bypassing of the key pinchpoints at Milton, Stretham and Little Thetford. The choice between a western bypass (option A) or an eastern bypass (option B) as Stretham makes little difference to the economic performance of the scheme and that decision should be taken using other criteria.	Value of journey time changes(£) 113.0 Net journey time changes (£) 0 to 2min > 5min 0 to 2min 2 to 5min > 5min 44.006 33.721 76.243		666.9	DI appraisal not completed at this stage
	Reliability impact on Business users	The ASR for the OBC will consider whether and how these should be monetised.				
	Regeneration Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double- counting with any benefits arising from dependent development				
Environmental	Noise	Option A would result in the reduction in noise at a large number of receptors caused by the redistribution of traffic onto the proposed offline sections of the alignment. There would be 420 properties within 100m of the Proposed Scheme, compared with 723 properties along the alignment of the existing A10. Where the bypass routes would move the road closer to individual or small groups of receptors where the noise level would currently be low, there would be large increases in noise at a small number of receptors (e.g., west of Milton, Stertham, and Little Thetroof), ada trafic noise increases of 3-168 would not be ineliged by the bypasses (offline sections). Some dwellings could potentially be eligible for Noise Insulation. Noise mitigation may also need to be considered for individual receptors or groups of receptors close to the proposed bypass routes.	Quantitative figures cannot be provided as noise modelling has not been undertaken.	Minor beneficial	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Air Quality	This option would have the potential to affect nitrogen deposition within a designated ecological site (the River Great Quse) and air quality at 869 properties within 200m of the Proposed Scheme, compared with 1,322 properties along the alignment of the existing A10. Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.	Quantitative figures cannot be provided as air quality modelling has not been undertaken.	N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon over 60y (CO2e) 5367 Change in traded carbon over 60y (CO2e) 4918	Slight adverse	-£300,426	
	Landscape	Where the route of Option A would be widened online the loss of mature roadside vegetation would be likely to open up views of the road from properties along the A10 and, potentially change the character of this relatively well treed corridor. The widening of the river Great Ouse crossing close to Stretham Ferry Marina is particularly sensitive. An unsympathetic crossing combined with loss of screening vegetation could give rise to significant adverse landscape and visual effects in this location. Bypassing Stretham to the west would be likely to be highly visible in the open landscape particularly where the road and its traffic are elevated across the A1123 Wilburton Road. The short bypass north of Little Thetford would reduce the impacts of the road and traffic properties fronting the A10 in this area. Offline sections would be likely to be detrimental to tranquility.	NA	Moderate adverse	N/A	
	Townscape Historic Environment	N/A The Proposed Scheme runs through a landscape mainly dominated by the A10 with associated	N/A	N/A	N/A	
	Fistoric Environment	Inter rouced Schemen and unknown archaedogal remains working and have the potential to be physically impacted by Option A during construction. There would also be impacts on historic buildings and on the historic landscape. After mitigation, it is not likely there would be any significant impacts.	N/A	Moderate adverse	N/A	
	Biodiversity Water Environment	In the absence of mitigation for Option A, moderate adverse effects on The Wash and North Norfolk Coast ASC would be anticipated, due to potential for disturbance effects on harbour seal, a qualifying species. Moderate adverse effects would also be anticipated for direct habitat loss at Beach Ditch and Engine Drain CWS and River Great Ouse CWS where traversed by or immediately adjacent to Option A online carriageway widening. Moderate adverse effects would be anticipated relating to secondary pollution related impacts arising from changes to water or air quality at these CWS as well as Landbaceh Pits and Willow Wood CWS which is hydrologically connected to Beach Ditch and Engine Drain CWS. Moderate adverse effects would be anticipated relating to direct loss, fragmentation and/or secondary effects to HoPI lowland fen associated with the River Great Ouse CWS where subject to online carriageway widening for Option A. Increased run-off and pollution during construction and hanges to groundwater could also adversely affect the condition of such habitats. This habitat type is irreplaceable. Moderate adverse effects would be anticipated relating to direct loss, fragmentation and/or secondary effects to HOPI loodplain grazing marsh arising from both online carriageway widening, and new offline carriageway of Option A. Increased run-off and pollution during construction could also adversely affect the condition of such habitats. Changes to the water environment would also have the potential to affect ponds. Option A would have the potential for significant moderate adverse effects to nesting and wintering birds associated with Worts Meadow UNR and floodpiain grazing marsh. Species within the immediate call area are likely to be habitated to traffic noise levels due to the existing A10, however, construction noise particularly associated with novel. Than adverse is inserver to entration of succh abitation or secondary effects (e.g. associated with novel, from Option A has the potential to reindeolic	NA	Slight adverse	NA	
		Flood Risk: Provision of compensation / flood storage, adherence to prescribed drainage strategy and design of culverts to comply with best practice guidance Surface Water Quality: Provision of SuDS and adherence to sediment/pollution management set out in a OEMP Geomorphology: Design of culverts to comply with best practice guidance Groundwater Quality: Adherence to sediment/pollution management set out in a OEMP The overall significance of impact, would however, be likely be Insignificant.	NA	Slight adverse	N/A	
Social	Commuting and Other users	The highest benefits are generated by options A and B, which both offer online full length dualing and bypassing of the key pinchpoints at Mitton, Stretham and Little Thetford. The choice between a western bypass (option A) or an eastern bypass (option B) at Stretham makes little difference to the economic performance of the scheme and that decision should be taken using other criteria.	Value of journey time changes(£) 691.3 Net journey time changes (£) 0 to 2min 2 to 5min > 5min 210.968 208.59 494.404			DI appraisal not completed at this stage
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.				
	Physical activity Journey quality	Not assessed for this scheme Reliability improvements will have a positive impact on traveller stress along the full length of the route, used here lenge outputs of didbit to unline		N/A Large beneficial		
	Accidents	by a large numbers of daily travellers Significant reduction in collisions would be expected between A14 and Cambridge Research Park and on minor alternative routes due to demand diverting to the new offline sections. Modern dual carriageways are statistically safer than older single carriageway A roads.	<u> </u>	Moderate beneficial		DI appraisal not completed at this stage
	Security Access to services	Not assessed for this scheme Not assessed for this scheme		N/A		N/A DI analysis not
	Affordability	Not assessed for this scheme		N/A N/A		Undertaken at this stage DI analysis not undertaken at this stage
	Severance	Slight increase in severance at Chittering due to widening and large increase between Landbeach and Waterbeach due to new offline section, likely to affect -200 people per day. Bypasses will slightly decrease severance at Stretham and Little Thetford. Slight severance benefits for communities along B1049 and Horningsea Road depending on magnitude of change in traffic volumes.		Neutral		DI appraisal not completed at this stage
· 보	Option and non-use values Cost to Broad Transport	Not assessed for this scheme		N/A		
Publi	Budget				146.7	
Ac	Indirect Tax Revenues	Very small changes			-0.5	

D	Name of scheme: escription of scheme:	A10 Cambridge to Ely Dualling and Junctions Project Option B. Full-length dualling, offline between A14 and Cambridge Research Park, mainly online	along the rest of the corridor except for pinchpoin	nts, with	Name Organisation	Rowland Potter CPCA
	Impacts	bypass to the east of Stretham Summary of key impacts		ssment	Role	Promoter/Official
	impacts	Summary or key inpacts	Quantitative	Qualitative	Monetary £m(NPV)	Distributiona 7-pt scale/ vulnerable gr
Economy	Business users & transport providers	The highest benefits are generated by options A and B, which hoth offer online full length dualing and bypassing of the key pinchpoints at Milton, Stretham and Little Theetond. The choice between a western bypass (option A) or an eastern bypass (option B) at Stretham markes little difference to the economic performance of the scheme and that decision should be taken using other criteria.	Value of journey time changes(£) 115.0 Net journey time changes (£) 0 to 2min 2 to 5min > 5min 43.735 34.851 77.59		652.8	DI appraisal no completed at this s
	Reliability impact on Business users	The ASR for the OBC will consider whether and how these should be monetised.				
	Regeneration Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double-counting with any				
ntal	Noise	benefits arising from dependent development Option B would result in a reduction in noise at a large number of receptors caused by the redistribution of traffic onto the				
Environmenta		proposed offline sections of the alignment. There would be 434 properties within 100m of the Proposed Scheme, compared with 723 properties about the alignment of the existing A10. Where the bypass routes would move the road closer to individual or small groups of receptors where the noise level would currently be low, there would be large increases in noise at a small number of receptors (sect of Mihon, Stretham, and Little Thereford). Road raffic noise increases of >1dB would not be likely within any of the Noise Important Areas along the existing route but some Noise Important Areas would be mitigated by the bypass routes (offline sections). Some dwellings could potentially be eligible for Noise his/lation. Noise mitigation may need to be considered for individual receptors or groups of receptors close to the proposed bypasses.	Quantitative figures cannot be provided as noise modelling has not been undertaken.	Minor beneficial	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis no undertaken at this s
	Air Quality	This option would have the potential to affect nirogen deposition within a designated ecological site (the River Great Ouse) and air quality at 867 properties within 200m of the Proposed Scheme, compared with 1,322 properties along the adjment of the existing A10. Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.	Quantitative figures cannot be provided as air quality modelling has not been undertaken.	N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this s
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon over 60y (CO2e) 34,673 Change in traded carbon over 60y (CO2e) 5811	Slight adverse	-£1,564,326	
	Landscape	Where the route of Option B would widened online the loss of mature roadside vegetation would be likely to open up wews of the road from properties along the A10 and potentially change the character of this relatively well teed corridor. The widening of the river Great Octae crossing does to Stretham Ferry Marina is particularly sensitive. An unsympathetic crossing combined with loss of screening vegetation could give rise to significant adverse landscape and visual effects the result well between the volub le kelky significant views famolaute flexits where the route would be office between Landbeach and Waterbeach, including significant impacts on views from Landbeach conservation area. Significant adverse effects would be likely to arise from local bypasses east of Stretham and west of Lift Theford, particularly where the route crosses the A 1123 Wilburton Road, and potentially visible from the Ouse Valley Way long distance path and affecting the landscape and vision. Old Engine scheduled monument. Offline sections would be likely to be detrimental to tranquility.	NA	Moderate adverse	NA	
	Townscape Historic Environment	N/A The Proposed Scheme runs through a landscape mainly dominated by the A10 with associated infrastructure. Known	N/A	N/A	N/A	
	Biodiversity	and urknown archaeological remains would have the potential to be physically impacted by Option B during construction. There would also be impacts on historic buildings and on the historic landscape. After mitigation, it is not likely there would be any significant impacts. In the absence of mitigation for Option B, moderate adverse effects on The Wash and North Norfolk Coast SAC would be	NA	Moderate adverse	N/A	
	Water Environment	anticipated, due to the potential for disturbance effects on harbour seal, a qualifying species. Moderate adverse effects would be anticipated of rdirect habitat loss at Beach Ditch and Engine Drain CWS and River Great Ouse CWS where traversed by or immediately adjacent to Option B orine carriageway widering. Moderate adverse effects would be anticipated relating to secondary pollution related impacts arising from changes to water or air quality at these CWS as well as Landbeach Pits and Willow Wood CWS which is hydrologically connected to beach Ditch and Engine Drain CWS. Moderate adverse effects would be anticipated relating to direct loss, fragmentation and/or secondary effects to HoPI lowland for associated with the Nixor Great Ouse CWS where subject to online carriageway widening. Increased run-off and pollution during construction and changes to groundwater could also adversely affect the condition of such habitats. Moderate adverse effects would be anticipated relating to direct loss, fragmentation and/or secondary effects to HoPI toopolain grazing marsh arising from both online carriageway. Widening, and new offline carriageway, kercased run-off and pollution during construction could also daversely affect the condition of such habitats. Moderate adverse effects would be anticipated relating to direct loss, fragmentation and/or secondary effects to HoPI toopolain grazing marsh arising finglicant moderate adverse effects to Geant Ariet would be associated floodpiain grazing marsh actives to the tot and adversel adverse effects would be anticipated relating a diversel with the immediate local area are likely to be habitast. Changes to the water environment would also have the potential to affect ponds. There would be the potential to server connectivity of Wrots Meadow LINR bring period associated with Words floodpiain grazing marsh. Species within the immediate local area are likely to be habitasted to this GWS. Changes to the vester environment would also have the potential to create mo	NA	Slight adverse	NA	
		Itolowing mitigation measures: Flood Risk. Provision of compensatory flood storage, adherence to prescribed drainage strategy and design of cuberts to comply with best practice guidance Surface Water Quality. Provision of SUDS and adherence to sediment/pollution management set out in a OEMP Geomorphology. Design of cuberts to comply with best practice guidance Groundwater Quality. Adherence to sediment/pollution management set out in a OEMP The overall significance of impact, however, would likely be hsignificant.	NA	Slight adverse	NA	
Social	Commuting and Other users	The highest banefits are generated by options A and B, which hosh offer online full length dualing and bypassing of the key pinchpoints at Milton, Stretham and Little Theefond. The choice between a western bypass (option A) or an eastern bypass (option B) at Stretham makes little difference to the economic performance of the scheme and that decision should be taken using other criteria.	Value of journey time changes(£) 686.6 Net journey time changes (£) 0 to 2min 2 to 5min > 5min 209.364 209.49 501.115			DI appraisal no completed at this s
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.		Ť		
	Physical activity Journey quality	Not assessed for this scheme Reliability improvements will have a positive impact on traveller stress along the full length of the route, used by a large		N/A		
	Accidents	numbers of daily travellers Significant reduction in collisions would be expected between A14 and Cambridge Research Park and on minor		Large beneficial		DIappraisal no
	Security	alternative routes due to demand divering to the new offine sections. Modern dual carriageways are statistically safer than older single carriageway A roads.		Moderate beneficial N/A		completed at this s
	Access to services	Not assessed for this scheme		N/A		DI analysis no undertaken at this
	Affordability	Not assessed for this scheme		N/A		DI analysis no
	Severance	Slight increases in severance at Chittering and Waterbeach due to widening of existing carriageway. Bypasses will slightly decrease severance at Stretham and Little Thetford. Slight severance benefits for communities along B1049 and Horningsea Road depending on magnitude of change in traffic volumes. Likely to affect <200 people per day		Slight positive		undertaken at this s DI appraisal no completed at this s
t S	Option and non-use values Cost to Broad Transport	Not assessed for this scheme		N/A		
Accounts	Budget Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions. Increases in			148.5	
Ac	A INCOMPANY IN A INCOVERINGS	Changes in indurect tax revenue are a mirror image of the changes in greenhouse gas emissions, increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.			2.1	

Appra	aisal Summary Table		Date produced:			2		July	2020	1	C	ontact:
	Name of scheme:	A10 Cambridge to Ely Dualling and Junctions Project									Name	Rowland Potter
De	escription of scheme:	Option C. Offline dualling between A14 and Cambridge Research Park, with junctio	n upgrades along	the i	rest o	of the (corride	or			Organisation Role	CPCA Promoter/Official
	Impacts	Summary of key impacts		Qu	Jantita	ative		,	Asses	ssment Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/ vulnerable grp
Economy	Business users & transport providers	Options C and F offer noticeably lower levels of benefits as the extent of dualling is restricted to the southern section, with some junction improvements only in the north of the corridor.	Value of jour Net jo 0 to 2min	urney 2	y time 2 to 5n	e chan nin	iges (£	2) > 5min	54.1		313.7	DI appraisal not completed at this stage
-	Reliability impact on Business	The ASR for the OBC will consider whether and how these should be monetised.	39.67		30.93	3		35.634				
	users Regeneration											
	Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double- counting with any benefits arising from dependent development										
Environmental	Noise	Option C would reduce noise impacts to astitement that would be close to the highway infrastructure (Beawean Milon - Exp road and Denry Enf Road Interaction). There would be 604 properties within 100m of the Proposed Scheme, compared with 723 properties along the alignment of the existing A10. The Increases in moise would be as a result of the introduction of a new diffice road which would bring the noise source closer to individual or groups of dwallings (Landheach). Two Noise Important Areas may be mitigated. Some valentings and the introduction of a new diffice road which would bring the considered for receptors close to the proposed offline dualing. For the remainder of the route there would be expected to be no change in noise, including at the Noise Important Areas.	Quantitative figures cannot be provided as noise modelling					Minor beneficial	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this stag		
	Air Quality	This option would have the potential to affect ritrogen deposition within a designated ecological site (the River Great Ouce) and air quality at 1.159 properties within 200m of the Proposed Scheme, compared with 1.322 properties along the alignment of the existing A10. Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.				N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this stag				
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-trade Change in traded ca	d carb rbon o	oon ove over 60	r 60y (C y (CO2e	CO2e) e)	1	67757 7036	Slight adverse	-£7,328,665	
	Landscape	There would be likely to be significant adverse landscape and visual effects where the route of Option C would be offline between Landbeach and Waterbeach, including significant impacts on views from Landbeach consensition area. For the remaining part of the route there would be likely to be localised landscape and visual effects associated with the proposed junction improvements and online widening near Cambridge Research Pairk. These effects would primarily be related to the loss of existing vegetation opening up views of the road and its traffic to sensitive visual receptors.	NA				Moderate adverse	N/A				
	Townscape	N/A		N/A					N/A	N/A		
	Historic Environment	The Proposed Scheme would pass through a landscape dominanted by the A10 and associated infrastructure with the exception of the offline saction at Landbeach which is undeveloped presented Given the undeveloped nature of the land, unknown anchaeological remains would have the potential to be hyphicals impracted by Option C during construction. There would also be impracts predicted on the historic landscape and the visual setting of historic buildings. After mitigation, it would not be likely that there would be any significant impacts.			N/A					Slight adverse	N/A	
	Biodiversity	As with Options A and B south of Cambridge Research Park, in the absence of specific mitigation, Option C words the linkly to result in an overall moderate adverse impact due to direct bots, fragmentation and/or secondary effects on HoPI floodplain grazing marsh. hcreased run-off and polition during construction could also adversely affect the condition of such habitats. This section of two corriangeway would also have the potential for moderate adverse significant effects to nesting and wintering birds associated with Words Meadow LNA and floodplain grazing marsh. The habitat loss, fragmentation and severance effects of the offline route would have the potential to moderately adversely affect basts, wintering and breeding birds, great crested news, repitie and hazel domnouse. In the absence of specific mitigation. Option C would be likely to result in an overal slight daverse impact and assumptions of the ecological abseline and scheme proposals and would require verification through surveys and associated ecological assessments.			N/A					Slight adverse	NA	
	Water Environment	Option C would have slight adverse impacts on the Water Environment receptors identified taking into consideration the following mitigation measures: Flood Risk: Provision of compensatory flood storage, adherence to prescribed drainage strategy and design of cultures to comply with best practice guidance Surface Water Quality: Provision of SuDS and adherence to sediment/pollution management set out in a OEMP Geomorphology: Design of cultures to comply with best practice guidance Groundwater Quality: Adherence to sediment/pollution management set out in a OEMP The overall significance of impact, however, would likely be heignificant.			N/A					Slight adverse	N/A	
Social	Commuting and Other users	Options C and F offer noticeably lower levels of benefits as the extert of dualing is restricted to the southern section, with some junction improvements only in the north of the corridor.	Value of jour Net jo 0 to 2min 204.106	urney 2		e chan nin	iges (£		52.2 3		339.4100704	DI appraisal not completed at this stag
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.										
	Physical activity Journey quality	Not assessed for this scheme Reliability improvements will have a positive impact on traveller stress along the improved section of the								N/A Large beneficial		
	Accidents	Significant reduction in collisions would be expected between A14 and Cambridge Research Park and on miror alternative routes due to demand diverting to the new offlins section. Stight decrease in collisions al junctions along the rest of the route. Whist the northern section would not be dualled, its safety record is better than the national average.								Moderate beneficial		DI appraisal not completed at this stag
	Security Access to services	Not assessed for this scheme Not assessed for this scheme								N/A N/A		N/A DI analysis not undertaken at this star
	Affordability Severance	Not assessed for this scheme Severe increase in severance between Landbeach and Waterbeach due to new offline section, likely to								N/A		DI analysis not undertaken at this star
	Option and non-use values	impact - 200 people per day. Neutral impact in settlements along the rest of the route.								Slight negative N/A		DI appraisal not completed at this stay
Public Accounts	Cost to Broad Transport Budget Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions.									66.9	
Ac		Creatings in inclusion, tak revenue are a minimum integro in the charingtes in green robuse gas emissions. Increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.									13.9	

Appra	aisal Summary Table		Date produced: 2 July 2020			ontact:
De	Name of scheme: escription of scheme:	A10 Cambridge to Ely Dualling and Junctions Project Option D. Full-length dualling, completely offline alignment running to the west of Milton			Name Organisation	Rowland Potter CPCA
	hun a sta			essment	Role	Promoter/Official
	Impacts	Summary of key impacts	Quantitative	Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/ vulnerable grp
conomy	Business users & transport providers	The more limited access points to the offline confider reduce the benefits compared with options A and B	Value of journey time changes(E) 99.7 Net journey time changes (E) 0 to 2min 2 to 5min > 5min 0 to 2min 2 to 5min > 5min > 5min		557.8	DI appraisal not completed at this stay
ш	Reliability impact on Business users Regeneration	The ASR for the OBC will consider whether and how these should be monetised.	48.421 33.683 86.145			
	Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double-counting with any benefits arising from dependent development				
Environmental	Noise	The fully differ route, Option D would reduce noise impacts to settlements that are close to the highway intrastructure (Stretam, Line Landeach and Contenham). There would a bit2 properties within 100m of the Proposed Scheme, compared with 22 properties along the alignment of the existing A10. There would a potential ncrease in noise of some receptors in Stretham (Cross while Farm anea). Little Theford (Ren Fen Road, Bedwell Hey Farm). Landbachen (Mddef Farm) and Cottherham (Hedgerover Sam, Two Bit Farm, and Mchel Hi H Farm) as a result of the introduction of a new offline routi which volud thing the noise source closer to individual group of group of dwellings. Some noise mitigation may be required in these areas. All Noise Important Areas along the route would be likey to be mitigated.	Quanitative figures cannot be provided as noise modelling has not been undertaken.	Moderate beneficial	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Air Quality	This option would have the potential to affect nitrogen deposition within a designated ecological site (the River Great Ouse) and air quality at 358 properties within 200m of the of the Proposed Scheme, compared with 1,322 properties along the alignment of the existing A10. Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.	Quantitative figures cannot be provided as air quality modelling has not been undertaken.	N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon over 60y 34780 Change in traded carbon over 60y (CO2e) 5764	Slight adverse	-£1,559,690	
	Landscape	Significant landscape and visual effects would be likely as the route of Option D would need to be on embankment across visually sensitive areas such as the river Great Ouse floodplain and other tow-lying fertiand areas. Road and river crossings would be elevated and widely visible and mitigation through planting would be uncharacteristic in this open landscape. This option would potentially be detrimental to tranquil areas and areas of darker skies.	NA	Large adverse	NA	
	Townscape	NA	N/A	N/A	N/A	
	Historic Environment	The Proposed Scheme runs through a rural landscape with semi-rural and semi-ruban settlements to the east and west. Given the uneveloped nature of the land, unknown archaeological remains would have the potential proceed by poption During construction. Three would also be impacts predicted on the historic landscape and the visual setting of historic buildings. After mitigation, it would not be likely that there would be any significant impacts.	N/A	Slight adverse	N/A	
	Biodiversity Water Environment	In the absence of mitigation for Option D, moderate adverse effects on The Wash and North Nortok Coast SAC would be anticipated, due to potential for disturbance effects on holdors and, a guilding appecies. Option D would result in an overall moderate adverse impact on Option D on Worts Madow LNR, as a result of severance and fragmentation, which is stuard between the existing A10 to the east and the new proposed offine carraigeway to the west. This would have the potential to affect third species listed on the Worth Madow LNR designation and their correctivity to the LNR. Option D would result in an optimate half loss and fragmentation of CWSs as it would require a completely new crossing point over River Great Ouse CWS and two crossing points over Baseh Dhah and Engine Dhan CVK. Option D would also serve connectivity of Landbeach Plas and Willow WOOd CWS to the surrounding the potential for moderate adverse impact as an exult of exoditory policitor related impacts to the baok CWS as well as other rivers and streams would also greatest to Option D (compared to the other option) due to the increase in numbers of crossing points and closer proximity to Landbeach Plas and Willow Wood CWS compared which the other option and the potential for hydrological charges. Increased run-off and policitina during construction and changes to ground water could also adversely affect the condition of such habitas. This habital type is implicable. Meride and well and the potential to result in moderate adverse secondary diffect to to HPI lowand the associated with and policital for agracing marsh. Inclusing areas associated with a policital in policital and policital during construction and changes to groundwater could also adversely affect the condition of such habitas. Changes to the water environment talks on the potential to affect could and adverse effects on aquatic invertebates and amphibians changes to the water environment talks and the potential to affect could such thabitas. Changes to the water inverte	NA	Moderate adverse	NA	
		Flood Risk: Provision of compensatory flood atomaps, adherence to prescribed drainage strategy and design of culverts to comply with best practice guidance Martaev Nator Culver (So Calverts to comply with best practice guidance Genomphology: Design of culverts to comply with best practice guidance Groundwater Quality: Adherence to sediment/pollution management set out in a OEMP	N/A	Moderate adverse	NA	
Social		The overall significance of impact, however, would likely be moderate. The more limited access points to the offline confider reduce the benefits compared with options A and B The 100 for the OPC will associate whether and how these she of the misseline d	Value of journey time changes(£) 631.0 Net journey time changes (£) 0 to 2min 2 to 5min 0 to 2min 2 to 5min > 5min 222.854 190.138 545.6			DI appraisal not completed at this sta
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.				
	Physical activity Journey quality	Not assessed for this scheme Refability improvements will have a positive impact on traveller stress along the full length of the route, used by a large numbers of daily travellers		N/A Large beneficial		
	Accidents	Significant reduction in collisions would be expected along the length of the existing alignment and on minor alternative routes due to demand diverting to the new route. Modem dual carriageways are statistically safer than older single carriageway A roads.		Large beneficial		DI appraisal not completed at this stat
	Security Access to services	Not assessed for this scheme Not assessed for this scheme		N/A N/A		N/A DI analysis not undertaken at this sta
	Affordability	Not assessed for this scheme		N/A		DI analysis not undertaken at this sta
	Severance	Slight decreases in severance at Stretham, Little Thetford, Chittering and for communities along B 1049 and Homingsea Road depending on magnitude of change in traffic volumes. Likely to affect <200 people per day		Slight positive		DI appraisal not completed at this stay
s o	Option and non-use values Cost to Broad Transport	Not assessed for this scheme		N/A		
2 2	Cost to Broad Transport Budget Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions. Increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.			169.9 3.7	

Appra	aisal Summary Table		Date produced:	2 July	2020	1	C	ontact:
Dr	Name of scheme: escription of scheme:	A10 Cambridge to Ely Dualling and Junctions Project	a the weat of Strathom			8	Name Organisation	Rowland Potter CPCA
Di		Option E. Full-length dualling, maximum online except for pinchpoints with bypass t	o the west of Stretham				Role	Promoter/Official
	Impacts	Summary of key impacts	Quantita	itive	Asses	ssment Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/
۲. ۲	Business users & transport	The more limited access points to the offline corridor reduce the benefits compared with options A and B						vulnerable grp DI appraisal not
Economy	providers		Net journey time 0 to 2min 2 to 5m 46.975 36.413	nin > 5r			581.6	completed at this stage
	users	The ASR for the OBC will consider whether and how these should be monetised.				[
	Regeneration Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double- counting with any benefits arising from dependent development					-	
Environmental	Noise	Option E would result in a reduction in noise at a large number of receptors caused by the redistribution of rafic onto the proposed offline sections of the alignment. There would be 548 properties within 100m of the Proposed Scheme, compared with 723 properties along the alignment of the existing A10. Where the bypass route would move the road closer to individual or small groups of receptors where the noise level would currently be low, there would be large increases in noise at a small number of receptors. Some Noise Important Areas would be emisplated but in others along the aligning, the noise level may increase. A number of wellings could potentiatly be eligible for Nuise Insulation, the noise level may increase. A number of wellings could potentiatly be eligible for Nuise Insulation. Noise imigation may need to be considered for receptors close to the proposed bypasses (offline sections).	Quantitative figures cannot be p has not been u	Neutral	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this stage		
	Air Quality	This option would have the potential to affect nitrogen deposition within a designated ecological site (the River Great Ouse) and air quality at 1.034 properties within 200m of the of the Proposed Scheme, compared with 1.322 properties along the alignment of the existing A1 to Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.		Quantitative figures cannot be provided as air quality A modelling has not been undertaken.			A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this stage
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon ove Change in traded carbon over 60	r 60y (CO2e) / (CO2e)	17002 4618	Slight adverse	-£802,235	
	Landscape	Significant adverse effects would be likely to arise from local bypasses (offine section) west of Stretham and Little Thetford for Option E, parkicularly where the route would cross the A1123 Wilburnon Road. There would be likely to be localised landscape and visual effects associated with the online widening and new and improved junctions adoing the immainder of the route. These effects would primarily relate to the loss of existing vegetation opening up views of the road and its traffic to sensitive visual receptors.	NA	NA			N/A	
	Townscape	N/A	N/A			N/A	N/A	
	Historic Environment	The Proposed Scheme rure through a tandscape mainly dominated by the A10. Known and unknown archaeological remains would have the potential to physically impacted by Option E during construction. There would also be impacts predicted on historic buildings and on the historic landscape. After mitigation, it would not be likely that there would be any significant impacts.	N/A			Moderate adverse	N/A	
	Biodiversity Water Environment	In the absence of miligation to Option E, moderate adverse effects on The Wash and North Norfolk Coast SAC would be anticipated, volue to potential for disturbance effects on Thabour seal, a qualifying species. In the absence of specific mitigation, Option E would be likely to result in an overall moderate adverse impact on Beach Ditch and Engine Drain CWS and River Great Ouse CWS due to potential habitat toose where traversed by or immediately adjacent to the online carriageaway whelening. Secondary moderate adverse impacts from politicin, due to charges to water or air rapality, would be possible at these OKS as well as Landbeach PH is and Willow Wood CWS which is hydrologically connected to Beach Ditch and Engine Drain CWS. There would be the potential or moderate adverse impacts due to direct loss, fragmentation and/or ascondary effects to HoPI toward for associated with the River Great Ouse CWS. Noreased nno's anopliunon duing construction could as adversely affect the condition of such habitats. This habitat type is implicated. There would be the potential or moderate adverse impacts due to direct loss, fragmentation and/or ascondary effects to HoPI toward for associated with River Great Ouse CWS, but they would be likely be less fithan Option AB which traverse additional areas of his habitat thore soft. Not would be likely be less fithan Option AB which tawares additional associated with the vesting carriageway widening which would have the potential to result in the direct moratily and loss of habitatoromethyl for tasts, great created news, regimes, hazed domrouse, There would also be the robatin down or differ sections. In the absence of septicit mices and which would have the potential to result in an overall slight adverse impact and adverse and fragmentation on offine sections. In the absence of septicit mices and must regulate the another adverse impact on Cambridge Road Wilkow Potent CWS, burdles well sensitive to an overall slight adverse impact admonuse, harbor seal, other notable mammals, rep	NA			Slight adverse	NA	
		consideration the following miligation measures: Flood Risk: Provision of compensatory flood storage, adherence to prescribed drainage strategy and design of culverts to comply with best practice guidance Surface Water Quality: Provision of SuOS and adherence to sediment/pollution management set out in a OEMP Geomorphology: Design of culverts to comply with best practice guidance Groundwater Quality: Adherence to sediment/pollution management set out in a OEMP The overall significance of impact, however, would likely be hsignificant.	NA			Slight adverse	N/A	
Social	Commuting and Other users	The more limited access points to the offline corridor reduce the benefits compared with options A and B	Value of journey time Net journey time 0 to 2min 2 to 5m 216.79 215.90	e changes (£) nin > 5r				DI appraisal not completed at this stage
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.				1		
	Physical activity Journey quality	Not assessed for this scheme Reliability improvements will have a positive impact on traveller stress along the full length of the route, used by a large numbers of daily travellers				N/A Large beneficial		
	Accidents	Moderate reduction in collisions due to congestion reduction along the route and bypass of Stretham. Modern dual carriageways are statistically safer than older single carriageway A roads.				Moderate beneficial		DI appraisal not completed at this stage
	Security Access to services	Not assessed for this scheme Not assessed for this scheme				N/A N/A		N/A DI analysis not undertaken at this stage
	Affordability	Not assessed for this scheme				N/A		DI analysis not undertaken at this stage
	Severance	Bypasses will sightly decrease severance at Stretham and Little Thefford. Slight increase in severance at Chitering and Waterbash due to carriageway widening. Slight severance benefits for communities along B104 and Horringsea Road depending on magnitude of change in traffic volumes. Likely to affect <200 people per day				Slight positive		DI appraisal not completed at this stage
tic ts	Option and non-use values Cost to Broad Transport	Not assessed for this scheme				N/A		
Publi	Budget Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions.					139.7	
Ä		Increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.					1	

Appra	isal Summary Table		Date produced: 2 July 2020)	C	ontact:
	Name of scheme:	A10 Cambridge to Ely Dualling and Junctions Project			Name	Rowland Potter
De	escription of scheme:	Option F. Online dualling from Cambridge as far as Cambridge Research Parl	k, with junction upgrades along the rest of the corric	lor	Organisation Role	CPCA Promoter/Official
	Impacts	Summary of key impacts	Asse	ssment	Nole	Fromoter/Official
			Quantitative	Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/ vulnerable grp
Economy	Business users & transport providers	Options C and F offer noticeably lower levels of benefits as the extent of dualling is restricted to the southern section, with some junction improvements only in the north of the corridor.	Value of journey time changes(£) 50.2 Net journey time changes (£) 0 to 2min 2 to 5min > 5min		213.8	DI appraisal not completed at this stag
-	Reliability impact on Business users	The ASR for the OBC will consider whether and how these should be monetised.	43.956 32.401 35.942			
	Regeneration Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double-counting with any benefits arising from dependent development				
Environmental	Noise	The online dualling of the southern section to Cambridge Research Park for Option F could potentially increase the noise between Mitton Interchange and the Waste Treatment Site, affecting the residential properties close to the 410. The number of properties within 100 mot the Proposed Scherne would be the same as the existing A10, 723 properties. Noise important Areas along the route would be likely to either be unchanged or the noise increase due to the online dualling. A number of dwellings could potentially be eligible for Noise Insulation. Noise mitigation may need to be considered for receptors close to the proposed online dualling.	Quantitative figures cannot be provided as noise modelling has not been undertaken.	Minor adverse	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Air Quality	This option would have the potential to affect nitrogen deposition within a designated ecological site (the River Great Ouse) and air quality at 1,324 properties within 200m of the o the Proposed Scheme, compared with 1,322 properties along the alignment of the existing A10. Exceedances of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.	Quantitative figures cannot be provided as air quality modelling has not been undertaken.	N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this stage.
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon over 60y (CO2e) 193062 Change in traded carbon over 60y (CO2e) 7005	Slight adverse	-£8,434,190	
	Lanoscape	There would be likely to be landscape and visual effects associated with the proposed dualling of the existing A10 and junction improvements for Option F. These effects would primarily be related to the loss of existing vegetation opening up views of the road and its traffic to sensitive visual receptors, particularly on the western edges of Milton and Waterbeach.	N/A	Slight adverse	N/A	
	Townscape	N/A	N/A	N/A	N/A	
	Historic Environment	The Proposed Scheme runs through a landscape mainly dominated by the A10. There would be impacts predicted on historic buildings and on the historic landscape as a result of Option F. After mitigation, it is not likely there would be any significant impacts.	N/A	Slight adverse	N/A	
	Biodiversity	In the absence of specific mitigation, Option F would be likely to result in an overall moderate adverse impact to hats, great crested newsr, profiles, hazel dormouse due to the loss of mature vegetation associated with the existing carriageway widening. In the absence of specific mitigation Option F would be likely to result in a slight adverse impact on Cambridge Road Willow Pollard CWS, semi-natural woodland, traditional orchard, rivers and streams, ponds, hedgerows, semi-improved grassland, bats, badger, hazel dormouse, other notable marmanis, wintering and breeding birds replites, great created newts, terrestrial invertebrates, notable fish and notable plants and fungi. These impacts are based on current knowledge and assumptions of the ecological baseline and scheme proposals and would require verification through surveys and associated ecological assessments.	NA	Slight adverse	N/A	
	Water Environment	Option F would have slight adverse impacts on the Water Environment receptors identified taking into consideration the following mitigation measures: Flood Risk: Provision of compensatory flood storage, adherence to prescribed drainage strategy and design of culverts to comply with best practice guidance Surface Water Quality. Provision of SuDS and adherence to sediment/pollution management set out in a OEMP Geomorphology: Design of culverts to comply with best practice guidance Groundwater Quality: Adherence to sediment/pollution management set out in a OEMP The overall significance of impact, however, would likely be Insignificant.	NA	Slight adverse	N/A	
Social	Commuting and Other users	Options C and F offer noticeably lower levels of benefits as the extent of dualling is restricted to the southern section, with some junction improvements only in the north of the corridor.	Value of journey time changes (£) 250.1 Net journey time changes (£) 0 to 2min 2 to 5min > 5min 208.652 182.593 237.491			DI appraisal not completed at this stag
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.				
	Physical activity Journey quality	Not assessed for this scheme Reliability improvements will have a positive impact on traveller stress along the improved section of the route and improved junctions, affecting a large number of travellers		N/A Large beneficia		
	Accidents	Moderate reduction in collisions between A14 and Cambridge Research Park, slight improvements at upgraded junctions. Whilst the northern section would not be dualled, its safety record is better than the national average.		Moderate beneficial		DI appraisal not completed at this stag
	Security	Not assessed for this scheme		N/A		N/A
	Access to services	Not assessed for this scheme		N/A		DI analysis not undertaken at this stage
	Affordability Severance	Not assessed for this scheme Slight increase in severance at Waterbeach, slight decrease in severance in Stretford at		N/A		DI analysis not undertaken at this stage DI appraisal not
		A10/A1123. likely to balance out overall		Neutral		completed at this stag
	Option and non-use values Cost to Broad Transport Budget	Not assessed for this scheme		N/A	58.9	
Acct	Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions. Increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.			15.3	

Appra	isal Summary Table		Date produced:	2 July	2020		C	ontact:
	Name of scheme:	A10 Cambridge to Ely Dualling and Junctions Project					Name	Rowland Potter
D	escription of scheme:	Option G. Junction improvements (no dualling)					Organisation	CPCA
							Role	Promoter/Official
	Impacts	Summary of key impacts	Quanti			Qualitative	Monetary £m(NPV)	Distributional 7-pt scale/ vulnerable grp
Economy	Business users & transport providers	The towest level of benefits is generated by option G which includes junction improvements only. In the absence of a full condror approach, junction improvements simply move congestion along to the next pinchpoint in many cases	Value of journey time Net journey time 0 to 2min 2 to 5 24.828 13.8	ne changes (£) min > 5	4.5 min 904		20.9	DI appraisal not completed at this sta
	Reliability impact on Business	The ASR for the OBC will consider whether and how these should be monetised.						
	Regeneration							
	Wider Impacts	An allowance for the consumer surplus has not been estimated because it may be considered double- counting with any benefits arising from dependent development						
Environmental	Noise	The junction improvements for Option G would be unlikely to change the noise level at sensitive receptors along the route. The number of properties within 100m of the Proposed Scheme would be the same as the existing A10, 723 properties. Road traffic noise increases of >1dB would not be likely within Noise Important Areas and no dwellings would be likely to be eligible for noise insulation.	Quantitative figures cannot be has not been		nodelling	Neutral	A monetised value cannot be provided as noise modelling has not been undertaken.	DI analysis not undertaken at this st
Ē	Air Quality	This option would have the potential to affect nitrogen deposition within a designated ecological aller (line River Grad Loose) and air quality at 1.323 properties within 200m of the of the Proposed Scheme, compared with 1.322 properties along the alignment of the existing A 10. Exceedences of air quality objectives would be unlikely to occur in the vicinity of the Proposed Scheme for this option.	Quantitative figures cannot modelling has not	be provided as air o been undertaken.	quality	N/A - Assessment not yet undertaken	A monetised value cannot be provided as air quality modelling has not been undertaken.	DI analysis not undertaken at this st
	Greenhouse gases	Based on a whole life carbon assessment, this option presents a slight adverse impact on GHGs, with increases in construction, maintenance and end user emissions from this option over the 60 year period. This is within the context of UK level carbon budgets.	Change in non-traded carbon ov Change in traded carbon over 6	er 60y (CO2e) 0y (CO2e)	57455 1794	Slight adverse	-£2,497,889	
	Landscape	There would be likely to be localised landscape and visual effects associated with the proposed junction improvements for Option G. These effects would primarily be related to the loss of existing vegetation opening up views of the road and its traffic to sensitive visual receptors.	N/	N/A			N/A	
	Townscape	N/A	N/	A		N/A	N/A	
	Historic Environment	The Proposed Scheme rurs through a landscape mainly dominated by the A10. There would no impacts anticpated to historic buildings, known or unknown archaeology or historic landscapes as a result of Option G.	NA			Neutral	N/A	
	Biodiversity	No significant ecological effects would be anticipated as a result of Option C- However, slight adverse impacts may cour on semi-ratural woodand, ponds, bats, badger, hazal domnouse, replies, great created newts, terrestrial inventebrates, notable fish and notable plants and fungi, Inspacts relate to direct mortally, habital tools and fragmentation and changes in environmental conditions (e.g. alivwater politikion, noise, lighting) during construction and operation. These impacts are based on current throwledge and assumptions of the ecological baseline and scheme proposals and would require wrification through surveys and associated ecological assessments.	N/	Ą		Slight adverse	N/A	
	Water Environment	Option Gwuld have styft adverse impacts on the Water Environment receptors identifed taking into consideration the following milligation measures: Flood Risk: Provision of compensatory flood storage, adherence to prescribed drainage strategy and design of culvers to comply with best practice guidance Surface Water Quality: Provision of SUDS and adherence to sediment/pollution management set out in a CEMP Geomorphology: Design of culvers to comply with best practice guidance Groundwater Cuality: Adherence to sediment/pollution management set out in a CEMP The overall significance of impact, however, would likely be hsignificant.	N/	Α.		Slight adverse	NA	
a	Commuting and Other users	The lowest level of benefits is generated by option G which includes junction improvements only. In the	Value of journey time	changes(£)	51.4			DI appraisal not
Socia		absence of a full corridor approach, junction improvements simply move congestion along to the next pinchpoint in many cases	Net journey tim 0 to 2min 2 to 5 125.802 75.9	min > 5 32 53	min 262			completed at this s
	Reliability impact on Commuting and Other users	The ASR for the OBC will consider whether and how these should be monetised.				1		
	Physical activity	Not assessed for this scheme				N/A		
	Journey quality	Junction improvements only will not make enough of an improvement to significantly impact on traveller stress				Neutral		
	Accidents	Moderate reduction in collisions at upgraded junctions but no impact on congestion-related collisions along A10				Slight beneficial		DI appraisal no completed at this s
	Security Access to services	Not assessed for this scheme Not assessed for this scheme				N/A N/A		N/A DI analysis not undertaken at this s
	Affordability	Not assessed for this scheme				N/A N/A		DI analysis not undertaken at this s
	Severance	Junction improvements will have localised slight severance benefits but likely to impact few people as				Slight positive		DI appraisal no
	Option and non-use values	they are not in populated areas Not assessed for this scheme				N/A		completed at this s
Accounts	Cost to Broad Transport Budget						22.4	
Account	Indirect Tax Revenues	Changes in indirect tax revenue are a mirror image of the changes in greenhouse gas emissions. Increases in greenhouse gas emissions stem from increases in fuel consumption, which in turn is the main driver of changes in indirect tax revenue.					4.3	