

## Matrix Schemes Within the Bay area

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<b>Plan Option/ Measure</b>	<b>Public Transport Improvements Buses</b> (bus gates and bus shelters)	<b>Improve Bus links to Rail Stations</b>	<b>Cycleway Improvements</b> (to existing routes, painting lines and upgrading footpaths)	<b>Traffic Management &amp; Safety Improvements</b> (Improve visibility, safety surfacing)	<b>Urban Traffic Calming</b> (pinch points, humps and bumps, rubber)	<b>Coach and Car Park improvements</b> (not extending car parks. Likely to involve CCTV and lighting improvements)	<b>Pedestrian Footway Cliff Bridge</b> (creating footway to improve safety although residential population in the area is small)
<b>Implementation Year</b>	1	1	1	1	3	3	5
<b>SEA Criteria</b>	<b>Potential effects: - - major negative, – slight negative, 0 no effects likely, + slight positive, ++ major positive, ? Uncertainty, ± could be positive or negative depending on how scheme is implemented</b>						
<b>Air Quality</b>	To develop the transport network to maximise access whilst minimising detrimental impacts on air quality.						
To reduce congestion in Newport	0	0	0	0	0	0	0
To limit traffic growth.	+	+	+	0	0	0	0
To increase travel choice and the proportion of people using public transport, cycling and walking	+	+	+	0	0	0	+
To reduce number of car trips	+	+	+	0	0	0	0
To improve air quality	+	+	+	0	0	0	0
<b>Soil and geology</b>	To ensure the transport network does not adversely impact upon geology and soils, and which reduces the risk of erosion and instability due to human activity.						
To reduce the risk to property and people from erosion and instability	0	0	0	0	0	0	0 / ?
Avoid damage to the coastline or the loss of amenity as a result of human activity.	0	0	0	0	0	0	0
To avoid contamination of land through construction and operation of the transport network	0	0	0	0	0	0	0
To protect areas important for geological processes	0	0	0	0	0	0	0

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<b>Water</b>	To maintain and improve the quality of the Island's watercourses, groundwater systems and to prevent an increase in risk from flooding.						
To ensure that highways works do not give rise to increases in surface run-off.	0	0	0	0	0	0	0
To protect the quality of water by controlling transport related development likely to adversely affect groundwater, surface water, bathing water, and estuaries quality.	0	0	0	- / 0 / ?	0	0	0
<b>Landscape and townscape</b>	To protect and enhance the Island's landscape and settlement character.						
To protect the landscape and settlement character of the Island and ensure that transport and its associated infrastructure does not negatively impact on the existing character of the area.	0	0	0	- / ?	- / 0 / ?	?	0
Positively enhance landscape and settlement character.	0	0	0	- / ?	- / 0 / ?	?	0
Conserve and enhance the AONB in line with its designated status, purpose and the AONB Management Plan.	0	0	0	0	0	?	0

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Conserve and enhance the Tennyson and Hamstead Heritage Coasts in line with their status, purpose and AONB management plan.	0	0	0	0	0	0	0
<b>Biodiversity, fauna and flora</b> To conserve and enhance the Islands biodiversity, fauna and flora.							
To avoid net loss (direct and indirect), damage to, or fragmentation of designated wildlife sites and the qualifying habitats and species on which they depend (Marine, estuarine, terrestrial and freshwater).	0/?	0	0	-/0/?	0	0/?	-/0/?
To maintain biodiversity and the variety of habitats on the Island	0/?	0	0	-/0/?	0	0/?	-/0/?
<b>Archaeology and cultural heritage</b> To protect the Islands historic environment and cultural resource							
To protect the fabric and setting of designated and non-designated archaeological sites, monuments, historic parks and gardens, maritime heritage and listed buildings locally important historic buildings and conservation areas	⇄	0	0	⇄	⇄	?	0

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Climatic factors	To reduce the Islands contribution to climate change and to limit transport development at risk from flooding and the effects of climate change						
To reduce the amount of greenhouse gas emissions on the Island	+	+	+	0	0	0	+
To increase the amount of renewable fuels / technology used to power vehicles	0	0	0	0	0	0	0
To limit development at risk from flooding and the effects of climate change	0 / ?	0	0	0	0	0 / ?	0
Human health and safety	To protect and improve the safety and health of the population.						
To make the Island's roads safer and reduce accidents	+	0	0	++	+	+	+
To increase opportunities for walking and cycling	0	0	+	0	+ / ?	0	+
Noise and Vibration	To limit the risk of adverse noise and vibration effects and protect tranquil areas.						
To limit / reduce the risk of the adverse noise and vibration effects of vehicle movements at the ferry ports	0	0	0	0	0	0	0

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To limit / reduce the risk of the adverse noise and vibration effects of transport movement in the urban centres	0	0	0	0	0	0	0
To protect tranquil areas on the Island and avoid risk to them from light and noise pollution due to increases in traffic	0	0	0	0	0	0	0
<b>Population</b> To improve accessibility for all sectors of the community, and minimise severance by sea.							
To minimise the impact of severance by sea	0	0	0	0	0	0	0
To ensure transport is accessible for all sectors of the community regardless of age, income and mobility	+	+	+	0	0	0	0
To improve access to services and facilities (e.g. retail, education, employment, health, leisure, sporting, cultural etc)	+	+	+	0	0	+	+
To increase access to the countryside	0	+	+	0	0	0	0
<b>Material assets</b> To improve and maintain the physical quality of the Island's transport infrastructure network							

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To ensure the use of recycled materials for road repair and construction.	0 / ?	0	0 / ?	?	?	0	?
To improve the physical quality of the island's transport infrastructure network through appropriate investment	0	0	+ / ?	+	0	0	0
<b>Key assumptions / uncertainty</b>	Not likely to improve access to the countryside.	Assume this will involve improving services and frequency and will not involve development. Scheme likely to improve access to the countryside linking rural areas to railway stations.	Locations of paths to be upgraded and cycleways to be created on existing roads unknown.	Uncertainty over potential impacts to biodiversity heritage, soil and geology and water quality.		Locations of car parks to be improved unknown. Uncertainty over potential for lighting to affect tranquil areas although installations will comply with dark skies requirements.. Depends on location of car park and topography. Setting of part of AONB could be affected?	Uncertain potential to negatively affect biodiversity, fauna and flora, to affect stability, and to use recycled materials.

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<b>Key comments</b>	Scheme is likely to make public transport more attractive and therefore performs well with respect to air quality. Bus shelters should provide some protection for people waiting for buses and therefore improves safety. Schemes are likely to be predominantly in urban areas. Council has considered bus shelter design in consultation with AONB office and conservation officer so landscape impact	Scheme liable to increase access within the area. Scheme is likely to make using public transport more attractive and therefore performs well with respect to air quality. Improvements in services is also likely to improve access to transport and access to services and facilities etc.	Predominantly improves opportunities for cycling and therefore performs well with respect to air quality and access.	Predominantly increases access, increases safety and decrease congestion within the Bay area.	Traffic calming should predominately improve safety for pedestrians, cyclists and motorists.	Predominantly improves safety.	Bridge spans a railway line Predominately improves safety for pedestrians and therefore improves access and makes walking more attractive.

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	not likely.						
<b>Mitigation proposed</b>	Any potential to use recycled materials in works should be maximised.	None	Ensure townscape/landscape is enhanced such as through the re-establishment of historic street patterns and increasing permeability. Use of recycled materials should be maximised.	Ensure impacts to biodiversity, heritage, soils and geology and water are considered and avoided. Any potential to use recycled materials in works should be maximised.	Any potential to use recycled materials in works should be maximised. Ensure that traffic calming complies with local design statements.	Ensure low-spill lighting is installed.	Ensure maximise use of recycled materials in construction. Ensure consider biodiversity, stability and avoid or minimise any negative impacts.