

APPENDIX 7: CUMULATIVE EFFECTS

		Sustainability Objectives																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KTCAAP spatial vision/policy and proposal sites	1	+	+/-	+	++			+++	+++	++	+	++	+/-	+/-	-	--	+++	+/-	+/-	-
	2	+/-	+	+	+/-	+	+	+++	++	+++		++	+/-	+/-	-	--	+++	+/-	-	-
	3		+	+		+		+	+	+		+	+/-	+/-	-	-	+	+	+	-
	4	+/-	+/-	++		+	+	++	++	++	+	++	+/-	+/-	-	-	++	+	-	-
	5	++		+	+++	+	+	+++	++	++		+	+/-	+/-	-	+/-	+++	+	+	-
	6	++	-	+		-		+	+	++		+		+/-	-	-	++	+	+	-
	7		+	+	+	+		++	+	+		+++	--	-	-	--	++	+	+	-
	8		++	++		++	+	++	+	+	+/-	+++	++		+	+/-	+			
	9		+	+		+	+	++	+	+	+/-	+++	+++		+/-	-	+	-		
	10			++		+	+	++			++	++	++		+++	+	+			-
	11			++			+		+	+	-	+/-	+/-		+/-					-
	12	+	++	++			+	+	++	++	++	+				++		+	+	
	13			++		+	+	+	++	+	++	++				+		+	++	
	14			+			++	+	+	+	+	++				+		++	++	
	15			++					+	+	-	--	--	--		--	+	--	--	
	16	+	++			+			+	+		++								
	17	++		++		+	+	++						+			++			
	18	++	++	++	+++	+	++	-	-	-		++	++	+	+					
	19																--			+++
	P1	+	+	++	+	+		++	++	++	+	++	+/-	--		-	+	?	-	-
P2	++	+	++	+	++		++	++	++	+	++	+/-	-	-	-	++	?	+	-	
P3	++	+	++	+	++		++	++	++	+	++	+/-	--	-	-	++	?	++	-	
P4	++	+	--	+	+	+	++	++	++	-	++	-	-		-	+	?	-	-	
P5	+	+	++	+	+		++	+	+	+	+	-	-		+	++	?	++	-	
P6	+	++	++	+	+	+	++	+	+	+	+	-	-	+	?	++	?	+	-	
P7	+	++	++	+	+	+	++	+	+		+	-	-		+	++	?	+	-	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

P8	+	-		+			++	+	+	+	++		-		?	+	?	+	-
P9	+		+	+			++	+	+	+/-	++		-		++	+	?	++	-
P10		+	++				++	+	+	++	++		-		+	+	?	++	-
P11	+	+	++	+			+	+	+	++	++		-		++	+	?	++	-
P12	+			+	+	+	+	+	+	+	++		-	-	+		++	?	-
P13	++	+		+			++	+	+	-	+++		-	-	-	-	++	?	-
P14			+		+		+	+	+		++		-	-	+	-	+	?	-
P15											+		+	-		?	+	?	-
P16	+		++						+		+		-	-				?	-
P17	+			++			++		++	++	++		+	-		-	++	?	-
P18	+		++	+		++	+		+		+		-	-		-	++	?	-
P19	+		+	++			++	+	++		++		-	-		-	++	?	-
P20	+			+			++	+	++	+	++		-	-		-	++	?	-
OTCA/HC, R & HS			+		+		++	+	+	-	++	+++	-	-	-	-	++	--	-

Assessment scale	Significance of effect
+++	Strongly positive
++	Moderately positive
+	Slightly positive
0	No effect
-	Slightly negative
--	Moderately negative
---	Strongly negative
+/-	Combination of positive and negative effects/neutral effect
?	Unknown effect

Summary comments on effects

SA objective	Overall rating	Comment
1	+	Overall a positive impact for reducing poverty and social exclusion, however to ensure that this remains a positive impact, within mixed-use developments and the town centre as a whole there needs to be an inclusion of community facilities and not a sole focus on retail, business and housing uses.
2	+	The impact is largely positive as it is a collective benefit of several policies creating an environment where anti-social behaviour is discouraged through specific strategies aimed at reducing anti-social behaviour, close working with partners and ensuring the design of new developments 'design out crime'.
3	++	The policies and proposal sites that have an impact on this objective all result in a significant positive impact for improving accessibility to services and facilities with the exception of one proposal site which will need to address the issue of accessibility.
4	+	The impact from the policies is positive against this sustainability objective.
5	+	Although most policies have a positive impact on creating a sense of community welfare and identity, unchecked expansion of the university or college may undermine this.
6	+	This positive impact is largely a collective benefit of several policies ensuring that town centre improvements contribute towards health improvements of the residents and ensuring that some developments include an aspect of community and health care facilities.
7	++	This objective has a significant positive impact from all policies which aim to ensure that future development within the town centre will enable the vitality and viability of it and promoting a balanced and sustained economic growth. Improving the range of shopping, employment and other opportunities would benefit the local economy, provide employment and enhance the level of activity within the town centre.
8	+	As in objective 7.
9	+	As in objective 7.
10	+	Overall, the impact on sustainable tourism is positive although the improvements to the historic environment using non-renewable materials, together with the increase in access to the town centre both by public transport and the private motor car could potentially erode the generally positive impact.

11	++	<p>The effect is significantly positive. However, car park developments and public transport interchanges together with increased signage could cumulatively worsen the quality of the town and landscape. Good design principles and the public realm palette need to be used in determining planning applications.</p>
12	+/-	<p>The historic environment of the town centre could over time lose its unique character due to new developments, such as additional retail, housing and business floorspace, within the town centre which is unsympathetic to its character. New developments need to be of a high quality to contribute to the historic environment to ensure that it is maintained and enhanced.</p>
13	--	<p>Cumulatively policies and proposal sites within the plan have a negative impact on this sustainability objective. An increase in activity in terms of development, traffic and people will together increase the production of waste in the town centre. New developments will need to be designed according to sustainable construction techniques and public areas designed in so as to reduce waste and waste disposal, such as the installation of recycling bins.</p>
14	--	<p>With new development envisaged across the town centre, there will be a cumulative impact on biodiversity. The town centre has little Greenfield sites for development opportunities, some of the sites proposed for development are currently vacant and underused although there are some proposal sites along the river. It is not known if they are of any value for flora and fauna. If there are, their loss would affect this objective unless special consideration was given to providing alternative habitats or the provision of mitigation measures. Existing green spaces need to be retained and new developments must include biodiversity enhancing features in their design to ensure that biodiversity across the town centre is enhanced. This effect would increase as more sites were developed and the range of available habitats reduced.</p>
15	--	<p>The increase in development and people envisaged in the town centre will collectively have a significantly negative impact upon the climate and natural environment. Although sustainable public transport is encouraged through policies of the plan, the increase of activities within the town centre will result in more people coming to it. New developments will need to ensure that they are designed and built according to high sustainable building standards and equipped to reduce the emissions of the building. Experience and knowledge of reducing emissions can be shared as developments proceed in the town</p>

16	++	<p>centre. The effect of reducing car journeys would help to improve air quality. There is limited scope for expansion within the town centre due to physical constraints and thus new development is considered appropriate through the redevelopment of existing sites; proposal sites.</p>
17	-/?	<p>As in objective 15. The effects on this objective are slightly unknown as it is dependent on the building methods and materials employed on developments. In order to reduce the impact it would be essential for new developments to take into account energy saving devices and to use renewable resources through sustainable building methods. The real effects can only be determined once applications are received but it would be advisable for new developments to incorporate these measures.</p>
18	-	<p>Many of the development proposals would have the effect of concentrating development in the town centre which would make it a more attractive destination and reduce the need for people to travel away from the town centre. However, the more development and attractions proposed and implemented the greater the effect of travel on the environment especially if people travel by car. To ensure that this does not mean that it causes more people to drive into the town centre, it is important that enhancements and improvements are made to more sustainable public transport, walking and cycling. There are policies which do refer specifically to these and it will be up to these policies and how they are implemented to ensure that traffic levels are reduced and thus to effects to the environment are kept to a minimum. The improvements and rebalancing of the car parks and improvements to the gateways could potentially undermine the improvements to public transport and thus the situation remains the same.</p>
19	--	<p>Kingston town centre is located within a floodplain and thus any additional development resulting in more hardstanding surfaces will increase run-off and the likelihood of flooding. Each development on its own will not result in the increased likelihood of flooding however with 20 proposal sites where redevelopment is sought the likelihood of flooding is increased significantly. The SFRA does contain mitigation measures which will help overcome the likelihood of flooding within the town centre.</p>