Appendix B Long List of Interventions

AECOM 35 Prepared for: Stroud District Council

No. Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
	Improvements to cycle infrastructure on the main arteries into		l				
135 Cycle access improvements for Stroud town centre	Stroud, e.g. Merrywalks	СР	Infrastructure	Cycling	17	17	17
	A pedestrian and cycle only bridge over the motorway, providing						
	a more direct access to Cam and Dursley station from the Wisloe						
122 M5 pedestrian/ cyclist overbridge to Cam and Dursley station	development site	SPW	Infrastructure	active travel	16	16	16
	Direct cycle route to Stroud, making use of off-road paths and						
123 Cycle route to Stroud from Sharpness development	providing infrastructure where necessary	SPW	Connectivity	Cycling	16	16	16
	Segregated off-road routes in towns, with a network linking to						
130 Dutch style cycle facilities to link all villages and major centres	villages	STW	Infrastructure	Cycling	16	16	16
137 Cycle Access improvements between Eastington and Nailsworth	Cycle Access improvements between Eastington and Nailsworth	CP	Infrastructure	Cycling	16	16	16
	Pedestrian cantilever walkway as an extension to the existing						
60 Cantilever bridge off A4135 over railway	railway bridge to bring footway up to standard	SPW	Connectivity	active travel	16	14	15
	Pedestrianisation of some roads in town centre to reduce						
Time-limited Pedestrianisation in towns	number of vehicles and emissions. Pedestrianisation between						
64	10am and 4pm	AECOM	Safety	active travel	15	14	15
	Priority of off-road active travel solutions over highway						
117 Prioritise Greenway Corridors over highway solutions	modifications	STW	Infrastructure	active travel	15	15	15
	Extension of the Greenway north to Slimbridge and Cambridge,						
118 Extension of Cam and Dursley Greenway	and south to Wotton, Charfield and Kingswood	AECOM	Infrastructure	active travel	15	15	15
	Cycle access improvements to Cam and Dursley Rail Station and						
119 Improvement to the Cam and Dursley Greenway	to Uley	STW	Infrastructure	active travel	15	15	15
	Additional land to increase opportunity for high quality walking						
129 Purchase land for active travel routes	and cycling infrastructure	STW	Cost	Cycling	15	15	15
133 Free e-bikes for 18 year olds	Provision of e-bikes to students to get to college	STW	Technology	Cycling	16		
Introduce e-bikes with suitable charging facilities to overcome Stroud's				171 0			
134 topography	Public e-bike hire bike service	STW	Technology	Cycling	16	13	15
136 Cycle infrastructure improvements (countywide)	Cycle infrastructure improvements (countywide)	СР	Infrastructure	Cycling	15	15	15
139 Cycle Access improvements to national cycle route 45, Stroud	Improved access points onto NCN	CP	Infrastructure	Cycling	15		
	Cycle crossing facilities at the roundabout to improve safety for			-,8			
140 Cycle Access improvements for Cainscross roundabout, Stroud	cvclists	СР	Infrastructure	Cycling	15	15	15
Cycle access improvement Multi-Use Track - B4008 between Little	- Cyclists	0.	ast. actare	C706			15
141 Haresfield and Stonehouse	Widening of existing pavement to a multi-use track	СР	Infrastructure	Cycling	15	15	15
112 Haresheld and Stonerrouse	Tridering of existing parement to a mater use true.		minustructure	Cycling			25
146 Improved walking and cycling links connecting with Cam and Uley	Extend the Cam and Dursley greenway to connect to Uley	SLP	Connectivity	active travel	15	14	15
147 Cycle training	Provision of free adult cycle training for all abilities	AECOM	Behaviour	Cycling	15		
147 Cycle training	Trovision of free addit cycle training for an abilities	ALCONI	Denaviour	Cycling	10	13	13
Separate cycle signal phase at traffic lights	To improve cyclists safety. Options include pre-signal to give						
148	cyclists a 5-secs head-start, or a separate signal phase for cyclists	AFCOM	Infrastructure	Cycling	18	11	15
156 Improvements for A419 corridor, Stonehouse	Provision for pedestrians and cyclists on the A419	CP	Infrastructure	road	15		
199 improvements for A+19 corridor, storichouse	Active travel infrastructure in place before the new	C1	iiii asti ucture	1000	1.	14	15
Active travel infrastructure in place before the new development is	development is open before first occupation to encourage active		1	1			
165 open before first occupation	travel habits	AECOM	Policy	Cycling	1/	15	15
Attractive, safe and direct active travel routes to local facilities and town	ri avei ilavits	AECUIVI	Policy	Cycling	14	15	15
	Desireable routes over journous by see to least feetilities	AECONA	Infractr	Cycling	4.5		45
166 centres	Desireable routes over journeys by car to local facilities	AECOM	Infrastructure	Cycling	15	15	15
474 Comment of the life to the total and the life to th		450014	.				4.5
171 Segregated cycling infrastructure in all new developments	Segregated cycling infrastructure in all new developments	AECOM	Policy	Cycling	15	15	15
Increase and prioritise government investment for active travel	Government to prioritise spending on sustainable transport						
20 infrastructure and buses including hubs	measures	STW	Cost	Politics	10	18	14

21				Theme		0		Average scoring
21		Support from SDC and GCC to prioritise spending on sustainable						
	Political Will to prioritise development in sustainable travel modes	transport measures	STW	Cost	Politics	10	18	14
63	Pedestrian improvements to Market Street	Placemaking to enhance pedestrian safety and user experience	SLP	Infrastructure	active travel	15	13	14
(Cycle Access improvements to Gloucester & Sharpness Canal towpath,							
	Gloucester	Improved access points onto the canal network	CP	Infrastructure	Cycling	14		14
	Improved cycle linkages to Cam & Dursley station	Improved cycle access to Cam and Dursley station	SLP	Connectivity	Cycling	14	14	14
	Improvements to Stroud station; and investigate the potential for an	Improvements to walking, cycling and bus links and						
145	integrated transport hub	infrastructure at the station	SLP	Infrastructure	rail	13	14	14
		Improvements dictated in the Safe and Sustainable Travel in						
157	B4066 corridor improvements, Berkeley	Standish Report, 2017	CP	Safety	road	14	14	14
		Highway safety improvements for pedestrians and cyclists across						
158	Highway safety improvement programme	the district	CP	Safety	road	14	14	14
	A29 Cross Voys Boundahout ungrade of access	Upgrade of pedestrian and cycling infrastructure to improve						
162	A38 – Cross Keys Roundabout – upgrade of access;	safety	SLP	Infrastructure	road	14	13	14
		Improvements to National Cycle Route through the installation						
,	A419 corridor – Chipman's Platt Roundabout upgrade;	of an off carriageway shared use cycle way from Spring Hill Road						
163		to Grove Lane	SLP	Infrastructure	road	15	13	14
3	Charging points for Ebikes	Public charging points for e-bikes	STW / GLTP	Infrastructure	Cycling	12	13	13
		Production of a Walking and Cycling Strategy to outline districts						
28	Create Cycle and Walking Strategy for area	ambitions and financial resources available	STW	Policy	Politics	11	. 14	13
	Ebley Road between Stroud and Stonehouse requires more sustainable			,				
	infrastructure, including bus and active travel priority	Pus and Active travel priority on Ebley Road	STW	Infractructura	sustainable transport	12	13	13
41	initiastructure, including bus and active travel priority	Bus and Active travel priority on Ebley Road	31 00	Infrastructure	sustainable transport	12	. 13	15
C 4		Facilities to allow pedestrians and cyclists to cross from Draycott	CDVA	l. C l		4.2	42	42
	Pedestrian/ cycle access over A4135/box road junction	1 , 0 0 ,	SPW	Infrastructure	active travel	13	13	13
	Maximise and prioritise use of towpath for active travel and Uley, Cam,	Provision of a high quality upgrades to the canal and greenway						
116	Dursley Greenway	networks	STW	Behaviour	active travel	12	13	13
		Provision of Sheffield stands at key retail, education,						
	Cycle parking at key destinations	employment and healthcare destinations to encourage cycling						
120			STW/AECON	Infrastructure	Cycling	13	13	13
	Secure cycle parking in new developments	Provision of secure cycle parking for all residents and visitors						
121		· · · -	AECOM	Policy	Cycling	13	13	13
		Scheme available to residents to use that have no access to a						
124	Hire Bike Scheme	bicycle	SPW	Infrastructure	Cycling	13	13	13
	Bikeabilitiy training in schools	Modern cycle training programme delivered across 3 levels to						
142	bireability training in serious	children	GLTP	Behaviour	Cycling	13	13	13
		Facilities available (or committed) within 10 minutes without a						
		car?						
		(including nursery, primary school, convenience store, cafe,						
		small						
		business service hub, community centre, GP practice,						
ı	New developments to be near facilities within 10 minutes without the	sport/leisure						
169	use of a car	facilities, playground)	AECOM	Connectivity	sustainable transport	13	13	13
+	Sustainable 'Spine' through Wisloe - Cam - Stroud - Dursley promoting			, , , , , , , , , , , , , , , , , , ,				
I.		Creation of a high-quality, reduced travel-time route	STW	Infrastructure	sustainable transport	10	13	12
	high quality sustainable transport							
42	high quality sustainable transport Shared space or 'drop the pace' campaign to reduce conflicts between	Signs on shared use path and greenways reminding users of			,			

Symptomic protective travel users to improve weynding in the vicinity, and possible to exeming and our infrastructure of content of the protection of particle and the state of the particle and parti	No.	Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
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42 County, Applicable to existing and new infrastructure. 72 Can and Dursley Railway station enhancements 73 control of the	45	Improve existing active travel infrastructure	vegetation clearance	STW	Infrastructure	sustainable transport	11	12	12
The comment of the co		Signage strategy for active travel users to improve wayfinding in the	Consistent, recognisable wayfinding across the walking and						
27 Cam and Dursley Rallaway station enhancements Infrastructure will will also Infrastructure will will will will be provided with careful will be provided will be provided with careful will be provided wil	47	county. Applicable to existing and new infrastructure.	cycling network	STW	Policy	other	13	11	12
Promise the allocation of highway land to active travel users rather to the provided wholes to complete a road audit of sixtans NCN routes to align with current Audits to understand quality of routes STW Communication (Communication Cycling 13 31) and the provided whole of the provided			Improvements to walking, cycling and bus links and						
1.23 Complete or and audit of Sustran NOR routes to align with current Audits to understand quality of routes STW Communication Silve Silvey Communication Silvey Silvey Active travel 12 12 13 13 14 14 14 15 15 15 15 15	72	Cam and Dursley Railway station enhancements	infrastructure at the station	CP	Infrastructure	rail	13	11	12
Complete a road audit of Sustrans NCN routes to align with current Light desire limits. Continuity and continuity and model shift Towards and proved facilities, including a more direct step-free access and sheltered cycle storage A strategy for encourage sustainable travel options for audit for further towards and more without provided by a strategy for encourage sustainable travel options of a customers going to and from the station A strategy for encourage sustainable travel options of a customers going to and from the station A strategy for encourage sustainable transport and active travel A strategy for encourage sustainable transport A strategy for encourage sustainable travel Communication Cycling 10 connectivity Cycling 10 connectivity Cycling 11 11 12 connectivity Cycling 12 22 27 Brinfastructure Cycling 13 50 Breatwise and strategy Politics STW Policy Politics 11 11 12 connectivity Politics 13 10 14 connectivity Politics 11 11 12 connectivity Polity Politics 11 11 12 connectivity Politics 11 11 12 connectivity Politics 13 10 connectivity Politics 14 connectivity Politics 15 cycle racks for for encourage sustainable travel potions of a strategy of encourage sustainable travel potions of a strategy of encourage sustainable travel Politics on bases used to strategy of encourage sustainable travel A strategy for in		Prioritise the allocation of highway land to active travel users rather	Retrofitting of highway to cater for pedestrian and cycle						
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15 Active Travel Maintenance Strategy for active travel, referring to national guidance SDC to enforce a ban for vehicles parked on the pavement to give space back to intended users and reduce damage to pavements caused by vehicles. STW			A strategy to inform how to deliver maintenance programmes						
SDC to enforce a ban for vehicles parked on the pavement to give space back to intended users and reduce damage to pavements caused by vehicles. STW Behaviour Parking 9 11 32 Positivity campaigning to promote public transport and active travel STW Communication other 10 10 keeping a proportion of funding solely for sustainable transport interventions STW Cost Politics 9 11 43 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal STW Infrastructure Sustainable transport 11 8 Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable									
give space back to intended users and reduce damage to pavement to stop pavement parking pavements caused by vehicles. 32 Positivity campaigning to promote public transport and active travel 33 Positivity campaigning to promote public transport and active travel 34 Increase and ring-fence funding for sustainable transport interventions 35 Increase and Gloucester 36 Vater taxi between Sharpness and Gloucester 37 Vater taxi on River Severn/ Gloucester Canal 38 Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable 38 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 48 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 58 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 59 11 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 59 11 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 60 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 70 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 80 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 81 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 81 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 81 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 82 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 83 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 94 Vater taxi between Sharpness and Gloucester Canal STW Infrastructure sustainable transport 95 Vater taxi between Sharpness and Gloucester Canal ST	15	Active Travel Maintenance Strategy	To active travel, referring to national guidance	AECOM	Policy	Maintenance	8	11	10
16 Neighbourhood enforcement to stop pavement parking pavements caused by vehicles. STW Behaviour Parking 9 11 32 Positivity campaigning to promote public transport and active travel STW Communication other 10 10 keeping a proportion of funding solely for sustainable transport interventions STW Cost Politics 9 11 43 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal STW Infrastructure sustainable transport 11 8 Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable			SDC to enforce a ban for vehicles parked on the pavement to						
32 Positivity campaigning to promote public transport and active travel STW Communication other 10 10 keeping a proportion of funding solely for sustainable transport interventions STW Cost Politics 9 11 43 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable			give space back to intended users and reduce damage to						
SIW Communication Other 10 10	16	Neighbourhood enforcement to stop pavement parking	pavements caused by vehicles.	STW	Behaviour	Parking	9	11	10
SIW Communication Other 10 10			Compaigns to promote public transport and active transport						
keeping a proportion of funding solely for sustainable transport STW Cost Politics 9 11 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal STW Infrastructure sustainable transport 11 8 Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable	32	Positivity campaigning to promote public transport and active travel	Campaigns to promote public transport and active travel	STW	Communication	other	10	10	10
39 Increase and ring-fence funding for sustainable transport interventions STW Cost Politics 9 11 43 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal STW Infrastructure sustainable transport 11 8 Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable			keeping a proportion of funding solely for sustainable transport						
43 Water taxi between Sharpness and Gloucester Water taxi on River Severn/ Gloucester Canal Promotion of 'Thinktravel'; the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable	39	Increase and ring-fence funding for sustainable transport		STW	Cost	Politics	9	11	10
Ongoing support for Thinktravel branding Promotion of 'Thinktravel', the brand name for Gloucestershire's smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable			Water taxi on River Severn/ Gloucester Canal	STW			11	8	10
Ongoing support for Thinktravel branding smarter choices programme, designed to help people consider their travel choices and encourage use of more sustainable		•				,			
Ongoing support for Thinktravel branding their travel choices and encourage use of more sustainable			·						
		Ongoing support for Thinktravel branding							
49 modes of transport GLTP Communication other 9 11	49			GLTP	Communication	other	9	11	10

No.	Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
	Road user awareness	Campaigns, such as the THINK cyclist campaign at bus stops,						
58	Nouv user awareness	backs of buses etc	AECOM	Behaviour	other	10	9	10
		Development next to existing transport networks (rail, bus,						
113	Locate new developments where public transport solutions are possible	cycle)	STW	Infrastructure	development	10	9	10
	New developments to have walkable distances to bus stops and rail	All areas of new development to be within walking distance of						
168	stations	bus stops (max 300m) and rail stations (max 800m)	AECOM	Connectivity	active travel	10	10	10
		retiming of last mile deliveries as a positive tool to manage						
	Encouraging the development of Last Mile delivery schemes (at suitable	travel demand in town centres and locations where there are						
12	locations)	residential properties close by.	GLTP	Behaviour	HGV	9	9	9
		Regular maintenance of highways, footways, cycleways and bus						
14	Capital Maintenance Programme	infrastructure	CP	Policy	Maintenance	9	9	9
		Travel Plan initiatives to encourage employees to travel				_		
	Work with top 20 employers to create an active travel plan	sustainably	STW	Policy	other	8	10	9
	Business engagement with Gloucestershire County Council to promote	6	CT14/					
	and encourage active travel	Target for employers to produce an Active Travel Plan	STW	Policy	other	8	9	9
	New junction design to be consistent	Design to follow Manual for Gloucestershire Streets and other				_		
59	· •	relevant guidance	AECOM	Policy	other	9	9	9
	to a constant and a second constant and a se	Lancard Annual Control of the Contro	CTIA	Comment in the	L	0		
88	Improvement connections between bus and rail	Improved transition at rail stations between rail and bus services	SIW	Connectivity	bus	8	9	9
00	Bus corridor upgrade on Wotton-Kingswood-Charfield-Thornbury	Frequent, direct bus service between Wotton-under-Edge and	CTIA	I. C t t	L	0		
99	(developer funded)	Thornbury	STW	Infrastructure	bus	8	9	9
100	Dool Time Indicators for hus and car parks, aspecially in hub locations	Real Time Information about bus services and real-time parking	CT\A/	Ta alama I a m.	ha	0	0	0
100	Real Time Indicators for bus and car parks, especially in hub locations	availability information	STW	Technology	bus	9	8	9
100	New bus service required to serve new strategic allocation at Sharpness	Existing bus services to connect into strategic housing development sites	SLP	Commontivity.	ha	0		0
109	& Cambridge	development sites	SLP	Connectivity	bus	9	9	9
127	Promotion of new cycle routes to sustrans for where locals want to go	Advertisement of local routes via Thinktravel	STW	Connectivity	Cycling	0	0	0
127	Fromotion of new cycle routes to sustrains for where locals want to go	Advertisement of local foutes via ministraver	31 VV	Connectivity	Cycling	9	3	9
167	Provision of frequent Public Transport services from first occupation	Provision of services to key destinations	AECOM	Connectivity	Bus	0	٥	Q
	EV fleet for public/council organisations and companies	Fleet of Electric vehicles in organisations for business use	STW	Technology	EV	Q	9	9
_	EV ficet for public/council organisations and companies	Travel Plan initiatives given directly to residents rather than via	31 00	recimology	LV	0		O O
23	Travel Plan initiatives incorporated into residents welcome party	paper/ email communications	SPW	Behaviour	development	7	Q	8
	Traver Flam initiatives into porated into residents welcome party	Information readily available to residents and visitors on active	J1 VV	Benavioui	acvelopment	,		0
34	Promote alternative routes for different modes	travel and public transport networks	STW	Communication	other	R	Q	8
		and the and public distributed for the control of t	3111	Communication	outer	0		8
	High speed broadband	High speed broadband across the district to reduce the need to						
55	Then speed broadband	travel to work, in new and existing developments	AECOM	Technology	other	R	7	8
	Daily walking clubs. Walks in small and large communities (and cycle	action to work, in new and existing developments	, LECOIVI	recimology	otilei	8	,	8
	clubs for different age groups)	Clubs to encourage health and fitness	STW	Behaviour	active travel	Q	7	8
- 52	Tram or rail between Sharpness and Gloucester centre with the	Crass to chesarage rediction and refless	J. VV	Dellavioui	active traver	0	,	8
68	potential to connect to Cheltenham	Rail or Light rail line connecting Sharpness and Gloucester	STW	Infrastructure	rail	Q	7	8
- 00	potential to connect to enertermum	New station allowing greater transport choice for new	5144	astracture		8	,	8
73	A new railway station(s) south of Gloucester, north of Bristol	developments	СР	Infrastructure	rail	7	8	8
-,5		Bus gate to remove vehicular traffic (except buses) to prioritise	j.,	ast. acture		,		0
		sustainable travel along the most direct route to the business						
82	Bus Gate on Naas Lane	park	SPW	Infrastructure	bus	8	7	8
<u> </u>		F ·			-		,	- J
85	Improve bus frequency between Stroud, Stonehouse and Gloucester.	15-minute frequency from Stroud to Gloucester	STW	Connectivity	bus	8	8	8
	Metrobus northern extensions	Extension of metrobus to Gloucester	STW	Connectivity	bus	8	8	8
00	MICH ODAS HOLLIGHT CALCUSIONS	Extension of metropus to dioucestel	J 1 V V	Connectivity	Nu3	0	0	0

No.	Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
07	New bus services to rural areas and shuttle buses for commuters	Bus services to connect rural districts to town centre	STW	Connectivity	bus	0	۰	0
07	Metrobus extension in Thornbury-Charfield-Wotton-M4 Junction 14 and	Bus services to connect rural districts to town tentre	31 00	Connectivity	bus	0	0	0
00	Park and Ride	Metrobus extension to Wotton-under-Edge	STW	Connectivity	bus	0		0
30	Use of A38 to create a bus Express between Bristol North Fringe and	Wetrobus extension to wotton-under-Luge	31 W	Connectivity	bus	0		8
	Gloucester, including stops at Whitminster, Falfield and Wisloe. Local							
96	= '	Limited stop service between Bristol and Gloucester in the peaks	ST\M	Infrastructure	bus	Q	Q	8
50	Bus stop and bus advantage improvements for Stroud - Gloucester	Elimited stop service between bristor and diodeester in the peaks	J1W	iiiiastiucture	bus			0
102	corridor	Upgrades to bus stop infrastructure	GLTP	Infrastructure	bus	Q	Q	8
102	Cornuo	Programme to bring all bus stops to the same standard in the	OLIT	iiiiastructure	503			0
104	Ongoing bus stop improvement programme	District, including shelters, RTI	GLTP	Policy	bus	7		, s
101	ongoing bus stop improvement programme	Extension of the 12 service to link into strategic development	GLII	Tolicy	503	,		
106	Bus service 12 - extension of existing service	sites	SLP	Connectivity	bus	Q	Q	, R
100	Dus service 12 Extension of existing service	sites	JLI	Connectivity	503			0
107	Bus service 61 extension & increased frequency for access to Stroud.	Increased frequency to cater for demand	SLP	Connectivity	bus	Q	Q	Q
107	Bus service frequency increase and better linkages to Cam & Dursley	Provision of a more frequent bus service to/from Cam& Dursley	JL1	Confidentity	, , , , , , , , , , , , , , , , , , ,			8
102	railway station	station to cater for last-mile movements	SLP	Connectivity	bus	Q	Q	Q
100	Tuliway Station	Retrofitting Bus priority measures on the highway to allow a	JLI	Connectivity	503			
111	Bus priority	time-advantage	AECOM	Infrastructure	bus	Q	Q	8
	Support working from home/community working	Promote working from home within businesses	STW	Technology	other	7	7	7
	Consult with communities to improve opportunities for partnership	Consultation with communities when designing new sustainable	J1 W	recimology	otrici	,	,	,
33	working	<u> </u>	STW	Communication	other	7	7	7
33	WORKING	incusures	J1 W	Communication	otrici	,	, ·	,
		A method to encourage new residents to make more sustainable						
	Personalised Travel Plans for new developments	travel choices through the provision of information, incentives						
	reisonalised fraver rians for new developments	and motivation directly to individuals to help them voluntarily						
50		make more informed travel choices.	GLTP	Doline	davalanment	7		7
50			GLIP	Policy	development	/	/	/
		A method to encourage residents and businesses on A38, A419,						
		A4135, B4066 to make more sustainable travel choices through						
	Personalised Travel Plans for key corridors	the provision of information, incentives and motivation directly						
		to individuals						
		to help them voluntarily make more informed travel choices.	CLTD	D - I' - · ·		_	_	_
51			GLTP	Policy	other	/	/	/
-	Name of the state of the Deletel Control Change become	Discretified from Change become act a Drived Discrete beautified	CTIA	L. C L L		_		_
69	New railway station to Bristol from Stonehouse	Direct link from Stonehouse onto Bristol-Birmingham Line	STW	Infrastructure	rail	/	б	/
70	Estancia est hus consissa internacia de colonidade esta esta esta esta esta esta esta est	Extension of bus services into all new developments from first	CDVA	Commontivity.	h	_	_	_
	Extension of bus services into new development sites	·	SPW	Connectivity	bus	7	/	7
80	Bus gate on Grove Lane	Bus gate to reduce flow of traffic on that link	SPW	Infrastructure	bus	6	/	/
01	Panid Dus/saach sanies to Dristol	Limited stop service to Bristol from Sharpness, stopping at North	CDVA	Connectivity	huc	7	,	7
	Rapid Bus/coach service to Bristol	Fringe, MOD, and city centre	SPW STW	Connectivity	bus	7	6	7
	Free public Transport	Public transport without charge		Cost	bus	/	6	7
93	Public transport should be at a reduced cost	Subsidised bus network to reduce cost of fares Park and ride connected via bus-only routes to be more	STW	Cost	bus	/	6	/
0.4	Identify bus only priority routes to help force use of party and rides	*	CT\A/	Infrastructura	hus	7	_	7
	Identify bus only priority routes to help force use of park and rides	attractive to use	STW	Infrastructure	bus	/	Ь	7
95	Interchange hubs for multi-modal on onward travel	Developments should be also and such that all his actions	31W	Infrastructure	bus	5	8	/
170	No do . do . alamana de la laca a a de a de ad la . a atam infrante e e e e	Developments should be planned such that all bus stops are	A F C O N 4	Delieu	h		_	_
1/0	New developments to have a standard bus stop infrastructure	equipped with seating and a shelter	AECOM	Policy	bus	7	7	7
	The character and the state of a second control of	Character and the contline for each line is a second of the contribution of the contri	CDVA	D - I'	5)/			
1	EV charging points at new developments	Charging points available for residents at new development sites	3PW	Policy	EV	6	5	6

No. Ir	ntervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
		Public charging points available in the district for existing						
2 C	Communal EV charging points for existing communities	residents	STW	Infrastructure	EV	6	6	
		Promotion of car share to public and businesses, with car share		1.				
7 P	romotion of car share with benefits dedicated to car share users	spaces closer to destinations as an incentive	STW	Cost	sustainable transport	6	5	(
		Use of hig data hetween read rail information, car park						
Т	ravel Information - RTI on social media/ app	Use of big data between road, rail information, car park availability, and bus information to allow travellers to make an						
F.6			AECOM	Tachnalami	sustainable transport	6		
56		instant decision on which network to use with the least delay. Use of the existing freight line to connect Sharpness to Cam and	AECOIVI	Technology	sustainable transport		ь	
67 11	Itilise rail line at Sharpness	Dursley station	STW	Connectivity	rail	7		
07 0	ruise raii iire at Sriai priess	Dursiey station	31 00	Connectivity	Tall	,	,	
71 Ir	nvest in new routes such as light rail	New light rail routes in the district to combat accessibility issues	STW	Infrastructure	rail	6	6	
7-11	TVEST III NEW TOUCES Such as light full	To enable more trains to operate and more stopping services,	31 **	minustracture	Tun			
74 R	ail Junction and Capacity improvements (dynamic loops) to rail lines	including possible new stations	CP	Infrastructure	rail	6	5	
	Bus turning Circle at Cam and Dursley station	Turning Circle to benefit bus routes	SPW	Infrastructure	bus	6	5	
. 5	0 mare at ann and a marel 9000000	Enable customers to feedback information to public transport						
83 Ir	mprove customer service on public transport	providers	STW	Behaviour	bus	5	7	
	sus scheme similar to a "Rural Uber"	Call a bus scheme	STW	Connectivity	bus	6	6	
	New Stroud/Stonehouse Bus Depot	New Stroud/Stonehouse Bus Depot	STW	Infrastructure	bus	7	5	
	Aixed used development at Sharpness would help to reduce demand	Encourage mixed used development for a level of containment						
	or travel	to reduce number of trips	STW	Infrastructure	development	6	6	
		An interchange on the A38 to allow travellers to switch easily						
150 A	38 Interchange	between modes	SPW	Infrastructure	road	5	6	
	5	Restrictions to stop/ reduce on-street and pavement parking in						
172 P	arking Controls on streets of new developments	new developments	AECOM	Behaviour	Parking	6	6	
Ν	Najor employment available within 30 minutes by public transport from	Major employment available within 30 minutes by public						
173 n	ew developments	transport from new developments	AECOM	Connectivity	sustainable transport	6	6	
	Annales at a should forward and the for AV	Set new standards for road markings at roadworks so that AV	450014					
5	Develop standards for road markings for AV	can travel safely	AECOM	Technology	AV	5	4	
		On-line mapping portal to ensure HGVs are guided to the safest						
8 F	reight Gateway management system	most appropriate routes and facilities.	GLTP	Technology	HGV	4	5	
F	ocusing improvements along valley bottom and A38 e.g. widen roads	Focus improvements on the main arteries rather than						
40 a	nd increase bus corridors	connecting country roads	STW	Infrastructure	road	5	5	
65 C	Closure of level crossings on Bristol, Birmingham line	Level crossing closure to improve safety for active travel users	SPW	Safety	rail	5	5	
		preserving land for future rail stations and masterplanning a		1				
70 C	Opening of halts as central hub	local centre around this	STW	Infrastructure	rail	4	5	
				l.,				
	lectrification of Bristol to Birmingham main line	Electrification to improve speeds and air quality on the line	GLTP	Infrastructure	rail	5	5	
	rioritise a Park and Ride to Stonehouse and Stroud	Park and ride off M5 J13 to Stroud and Stonehouse	STW	Infrastructure	bus	7	3	
	ransport Hub at M5 J13	20	SPW	Infrastructure	road	5	5	
159 2	0 mph zones	20mph zones across urban areas and new developments	СР	Safety	road	5	4	
161 A	419 corridor – possible dualling from Chipman's Platt Roundabout;	Dualling to allow a bus lane on the A419	SLP	Infrastructure	road	5	4	
Е	ngage with police and senior representatives to enforce HGVs and							
13 g	ood driver behaviour e.g. speeding	Increase safety on road for all users	STW	Behaviour	HGV	4	4	
Ĭ		Pre-booking of parking spaces to avoid driving round to find a						
S	mart parking - pre booking of parking spaces	space, or to see if there are spaces available before the journey						
18		is made	AECOM	Technology	Parking	4	. 3	

No.	Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
		Greater database of movement data (cycle counts, pedestrian						
2	6 Collate high quality travel data to understand peoples movement	counts, junction counts, traffic counts)	STW	Behaviour	other	3	5	
3	5 Congestions charges in towns and cities	Charge for vehicles entering towns and cities	STW	Cost	other	3	5	
		All council owned buildings to use energy made from renewable						
3	6 Invest in renewable energy in the county	sources	STW	Cost	other	3	5	
	Use of solar and battery technology alongside transport structures e.g.							
4	6 solar panels on car parks and alongside electric rails	Additional sources of renewable energy	STW	Technology	other	4	3	
		A study into how the use of technology can improve the						
4	8 Feasibility Study to consider the role of Intelligent Transport Systems	transport network	GLTP	Technology	other	4	4	
6	6 Rail Halt at Whaddon	Land set aside for future rail station	SPW	Infrastructure	rail	4	4	
		Local Park and Ride sites around the district - feasibility study						
10	1 Local Park and Ride facilities	required to determine sites	STW	Infrastructure	bus	4	3	
		Additional car parking spaces at the Waterwells Park and Ride to						
10	3 Strategic Park and Ride expansion at Waterwells, Gloucester	capture trips from A38 to Gloucester	GLTP	Infrastructure	bus	4	4	
		Reduction of speed on A4135 to 30mph at existing 40mph						
14	9 A4135 - slow traffic and encourage other modes	sections coupled with road narrowing	SPW	Safety	road	4	4	
	·	Reducing the proportion of traffic in the most congested time		,				
		period, with measures such car sharing, public transport						
		incentives, encouraging businesses to allow working from home						
15	Peak spreading of trips	and flexible working	SPW	Behaviour	road	4	3	
	Transporting trains		0	Demariou.				
		Peak spreading of journeys to reduce pressure on the network,						
15	Peak time management at road junctions and rail services	including working from home to reduce demand	STW	Connectivity	road	4	3	
	Deployment of non enforceable average speed cameras	To monitor speeds of HGVs	GLTP	Safety	HGV	2	3	
	1 HGV Highway Safety promotions	Ensuring HGVS and other road users are interacting safely	GLTP	Safety	HGV	3	3	
	The Trighway surety promotions	Ensuring fields and other road asers are interacting sarety	OLII	Juicty	1107	3		
		Ensuring that children go to their nearest school where possible						
2	2 Rationalisation of school catchments	to minimise vehicle school trips and encourage active travel	SPW	Behaviour	other	2	2	
	Integration of County Transport Policy, Energy Policy, Industrial Policy	to minimise venicle school trips and encourage active travel	JF VV	Dellavioui	otilei	3	3	
ว	4 and Health & Wellbeing	Integration of all policies for consistency	STW	Policy	Politics	2	1	
	Reduce provisions for developments which cannot demonstrate	integration of an policies for consistency	31 44	Folicy	Folitics	2	4	
2	O certainty about the delivery of a travel plan		STW	Communication	development	2	2	
	Build up economy to reduce out-commuting (money and skills) from		31 00	Communication	development	3		
2		continue to work towards hecoming a high value economy	STW	Cart	-46	2	2	
3	8 Stroud	continue to work towards becoming a high-value economy	31 VV	Cost	other	3	3	
_	Inverse Charging	Road charging scheme that charges more for shorter journeys	AECON4	Cart	-46	2	2	
5	<u> </u>	- '	AECOM	Cost	other	3	3	
	CHAPM control control	Lancard Control of the Control of th		1				
_	CHARM control system	Improving traffic management integration through controlling		L	1			
5	3	traffic signals and exchanging data with local authorities	AECOM	Technology	other	3	2	
					l			
	9 On street parking management schemes	Scheme to restrict parking of HGVs in unsuitable locations	GLTP	Safety	HGV	2	2	
	Low emission zone in town centres			L .	1.			
		Pollution charging scheme to reduce emissions in town centres	AECOM	Environment	other	1	3	
	7 Decriminalisation	Allow council to enforce parking bans, speed limits	AECOM	Communication	other	2	2	
9	8 Less polluting, and higher quality buses	Electric buses	STW	Infrastructure	bus	1	3	
	Introduction of a tax per mile for vehicles to discourage short-distance	Higher tax per mile for shorter distance journeys, compared to		1				
15	4 trips	longer distance	STW	Cost	road	2	2	

No.	Intervention	Description	Source	Theme	Sub-theme	JR scoring	RA Scoring	Average scoring
		Controlling access onto M5 junctions during peak congestion in						
	Ramp metering on junction	order to manage demand, reduce overall delay and improve						
164		safety	AECOM	Infrastructure	road	3	0	2
37	Increase petrol and diesel costs	Increase in fuel costs could discourage some trips	STW	Cost	other	1	1	1
115	Don't build at Berkeley as it is poor for buses and services access	Consider potential for sustainable transport options at Berkeley	STW	Infrastructure	development	2	0	1
	Desidents Designa Zenes	Residents parking zones to reduce commuter/shopper parking in						
19	Residents Parking Zones	residential streets	AECOM	Safety	Parking	1	-1	0
	Junction improvement A38 / B4066 junction including a new							
160	roundabout, Berkley	Junction improvement to benefit freight movement	GLTP	Infrastructure	road	0	-4	-2

Appendix C Package of Interventions

AECOM 36 Prepared for: Stroud District Council

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Water taxi between Sharpness and Gloucester

Use of modal filters to benefit sustainable travel modes

Rapid bus/coach service to Bristol

Improved frequencies of bus services, improvements in bus stop infrastructure, and where appropriate, bus

Northern Metrobus extension

B4066 corridor improvements, Berkeley

Safety improvements for pedestrians and cyclists at Cross Keys Roundabout

A419/B4008

Cycle Access improvements between Eastington and Nailsworth

Cycle Access improvements to National Cycle Route 45, Stroud

Cycle Access improvements for Cainscross roundabout, Stroud

Improved provision for pedestrians and cyclists on the A419 Ebley Road corridor

Improved frequencies of bus services on A419/B4008 between Stroud, Stonehouse and Gloucester, including improvements in bus stop infrastructure, and where appropriate, bus priority

A419 corridor - Chipman's Platt Roundabout upgrade;

A4135

Dedicated pedestrian and cycle provision at railway pinch-point

Improved pedestrian and cyclist access over A4135/Box Road junction

Increase in bus service frequency and bus stop infrastructure, with improved connections to Cam and Dursley railway station

Sustainable 'Spine' through Wisloe - Cam - Stroud - Dursley promoting high quality sustainable transport

Rail

Improvements to pedestrian, cyclist and bus access and facilities at Stroud station, investigating the potential for an integrated transport hub

Improvements to pedestrian, cyclist and bus access and facilities at Cam and Dursley Railway Station

Improvements to pedestrian, cyclist and bus access and facilities at Stonehouse Railway Station

Railway Station Travel Plans

Rail Junction and Capacity improvements (dynamic loops) to rail lines

A new railway station(s) south of Gloucester, north of Bristol

Utilisation of existing rail line at Sharpness for domestic travel

Closure of level crossings on Bristol, Birmingham line

Opening of halts as central hub in new developments, where applicable

Bus

New bus services connecting rural areas and shuttle buses for commuters

Extension of bus services into new development sites

Ongoing bus stop improvement programme

Real time bus information, readily available in one place

Continued roll out of multi operator bus Smartcard ticket

Active travel

Improvement of existing active travel infrastructure in the District as a result of active travel audits

Extension of Cam and Dursley Greenway

Improvements to Gloucester & Sharpness Canal towpath, including access

Cycle access improvements for Stroud town centre

Cycle access improvement Multi-Use Track - B4008 between Little Haresfield and Stonehouse

Strategic development sites to link into the cycling network, providing improvements where possible

Attractive, safe and direct active travel routes to local facilities and town centres

Pedestrian improvements to Market Street

Time-limited Pedestrianisation in towns

Hire Bike Scheme, including hire of e-bikes, for residents, schools/colleges and businesses

Cycle parking at key destinations

Free Cycle training for all ages and abilities

Behaviour/cultural Change

Travel Plan initiatives incorporated into residents welcome party

Personalised Travel Plans for key corridors and for residents in new developments

Shared space or 'drop the pace' campaign to reduce conflicts between pedestrians and cyclists

Daily walking clubs. Walks in small and large communities (and cycle clubs for different age groups)

Improve customer service on public transport

Promotion of car share with benefits dedicated to car share users

Encouraging the development of Last Mile delivery schemes (at suitable locations)

Ongoing support for Thinktravel branding, including positivity campaigning to promote public transport, active travel and road user awareness

Real Time travel information for all modes on social media/ app

High speed broadband, encouraging home/community working

Consult with communities, improving opportunities for partnership working

Business engagement with Gloucestershire County Council to promote and encourage active travel

Enabler (includes strategy)

Active Travel (Walking and cycling) Strategy for Stroud District, including maintenance, signage, safety and suggested infrastructure improvements

Political Will to prioritise development in sustainable travel modes

Planning policy to promote connectivity and modal shift

Increase and ring-fence funding for sustainable transport

Prioritise the allocation of highway land to active travel users rather than motorised vehicles, purchasing additional land where required

Neighbourhood enforcement to stop pavement parking

New junction design to be consistent

All developments should have mandatory provision infrastructure for active travel and EV charging points, following guidance provided by SDC

New developments to have walkable distances to bus stops and rail stations

Major employment available within 30 minutes by public transport from new developments

Interchange hubs for multi-modal onward travel

EV fleet for public and private organisations

Reduce cost of public transport fares

Restriction of parking in town centres

Cycle racks for buses

Appendix D Amended Local Plan Policy Text

AECOM 37 Prepared for: Stroud District Council



Technical Note

Project:	Sustainable Transport Strategy, Stroud	Job No:	60598598
Subject:	Local Plan Policy – Review and Proposed	Amends	
Prepared by:	Chris Carter (Associate Director)	Date:	08/10/2019
Checked by:	Jess Railton (Senior Consultant)	Date:	09/10/2019
Approved by:	Richard Adams (Associate Director)	Date	10/10/2019

Introduction

This Technical Note sets out AECOM's proposed amendments to Local Plan Policy as part of the Sustainable Transport Strategy (STS). It directly copies existing Local Plan 2015 planning policies and highlights additions in yellow, and deletions in strikethrough.

Core Policy CP13 Demand Management and Sustainable Transport Measures

Proposals for major schemes, as defined by the Town and Country Planning (Development Management procedure) (England) Order 2010, will be supported where they:

- Provide for a variety of forms of transport as alternatives to the car to allow more sustainable choices
- 2. Improve the existing infrastructure network, including road, rail and bus, facilities for pedestrians and cyclists, including provision for those with reduced mobility, and other users
- 3. Mitigate any significant adverse effects upon the transport network that arise from the development proposed.

In all development cases, schemes shall:

- i) be located where there are, or will be, at the time of development, choices in the mode of transport available and which minimise the distance people need to travel
- ii) provide appropriate vehicular parking, having regard to car ownership and the Council's adopted standards
- iii) not be detrimental to and, where possible, enhance road safety; and
- iv) not cause or contribute to significant highway problems or lead to traffic related environmental problems.

Development proposals shall be consistent with and contribute to the implementation of the agreed transport strategy, set out in the Gloucestershire Local Transport Plan and Stroud Sustainable Transport Strategy. Any transport assessment needs will be consistent with the requirements set out in the Gloucestershire Local Transport Plan or the relevant Government guidance and regulations.

Delivery Policy EI12 Promoting transport choice and accessibility

Sustainability through design

All developments should be planned in line with the Sustainable Transport Hierarchy. In the first instance, opportunities to reduce the need to travel should be maximised, including through the provision of ancillary facilities on-site and through measures which enable people to work from home, such as high speed broadband. Development should be located in areas which are already well served by public transport and have access to a range of local facilities within walking and cycling distance. Masterplans should be designed to prioritise active travel modes, including emerging mobility options such as e-bikes and e-scooters, over private car usage. Residential streets should be designed to a 20mph speed limit to enhance pedestrian and cycle safety.

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Bus permeability and associated facilities should be incorporated into development proposals, where appropriate, and pedestrian facilities should be provided to ensure people can access bus services, either on or off-site. Shared mobility opportunities should be explored and accommodated through design, with the aim of reducing car ownership whilst maintaining personal mobility.

Delivering Transport Infrastructure

Where appropriate, new developments will be required to connect into the surrounding infrastructure and contribute towards new or improved walking, cycling and rail facilities within the District and the provision of an integrated public transport network across the District. Walking, cycling and public transport facilities will be required to be put in place as early as possible in development proposals to ensure that opportunities for sustainable travel are available to support early occupiers in establishing sustainable travel patterns.

Developers must take account of the proposals included within Stroud Infrastructure Delivery Plan, the Stroud Sustainable Transport Strategy, and the Gloucestershire Local Transport Plan. In appropriate circumstances, new development will be required to contribute towards these schemes. Contributions, where reasonable and viable, will be sought towards these strategic transport infrastructure schemes from major development proposals throughout the plan period. Proposals which are likely to prejudice the future development of strategic transport infrastructure will not be permitted.

Enhancing Accessibility

All development proposals should have full regard to the transportaffic impact on the local and strategic highwaytransport network. Major development proposals, or those that are likely to have a significant impact on the local and/or strategic transport network, will be required to submit a Transport Assessment as well as a Travel Plan, to demonstrate that they have fully considered safe and suitable access by all modes of transport.

The Transport Assessment will be required to establish the transport impact of the development proposals in the absence of mitigation. Where a severe impact is identified, mitigation will be required. Mitigation should be proposed in line with the sustainable transport hierarchy, with measures to reduce car trips through demand management viewed favourably. Measures which increase traffic capacity should not be seen as the default mitigation mechanism and will be accepted only where residual traffic impact remains severe, or where there is a risk to safety, after sustainable transport mitigation measures have been accounted for.

The Travel Plan shall set out targets and measures for addressing travel demand through a package of measures. This will include maximising accessibility by sustainable transport modes, minimising traffic generation and mitigating the effects of additional traffic through a package of multi-modal measures which minimise the distance people have to travel. Travel Plans will be expected to include the offer of Personalised Travel Planning to all residents or users of proposed development. Any planning permission will require full implementation of the Travel Plan.

Parking Standards

Vehicular parking standards and principles for new development should be provided in accordance with adopted standards, as set out in **Appendix 2** of this Local Plan. This includes a requirement for, or where the developer toean adequately justify their own parking provision with evidence accompanying any planning application. Evidence will need to demonstrate that the level would not have a detrimental impact on the local road network.

New Policy: District Wide Mode-Specific Strategies

Stroud District Council will work with key partners including Gloucestershire County Council and Highways England to develop District-wide strategies to enhance sustainable travel opportunities for all. This will integrate with patterns of growth coming forward in the District, as well as establishing conditions for existing movement patterns to be accommodated in as sustainable a way possible. Strategies will include:

- District-Wide Walking and Cycling Strategy: To identify and accommodate both local and strategic movement patterns and opportunities, and prioritise investment in improvement



- schemes to create a connected network. This Strategy should take account of technology such as e-bikes, providing opportunities for longer distance cycling to become available for a wider range of people, and plan for investment accordingly. The Walking and Cycling Strategy should inform Highways Maintenance programmes, as carriageway in a poor state of repair can disproportionately impact on cyclists.
- Shared Mobility Strategy: Establish a Shared Mobility Strategy with a goal of enabling a transition to a shared mobility transport system. The strategy should support a shift to reduce individual vehicle ownership and stimulate shared access of a cleaner, lower carbon, vehicle fleet and other sustainable transport options.
- Interchange Strategy: Opportunities may exist for a range of Interchange Hubs to be established on the edge of settlements and/or at strategic road connections, such as M5 Junctions and where the A38 meets distributor roads such as the A4135. Interchange Hubs would need to offer seamless multi-modal connectivity, facilitated by technology. Opportunities to develop such Interchange Hubs into Strategic Sites should be considered, although the relative merits of each option would need to be considered on a site-specific basis and in consultation with Highways England and Gloucestershire County Council. Interchange and Shared Mobility Strategies should be integrated.
- District-Wide Parking Strategy: This should consider both the charging and availability of public parking across the District. The primary objective should be to use parking as a policy lever to discourage car trips where viable sustainable alternatives exist. However, the strategy will need to recognise the rural context of parts of the District and the disparity in availability of sustainable alternatives across the District. The Strategy should consider all available tools, including parking charges, supply of off-street parking, and control of on-street parking. The Parking Strategy should extend to consider the impact of pavement parking on vulnerable pedestrians. This should include potential solutions to address this problem, including the use of Traffic Regulation Orders to enable enforcement by Local Authority.
- Public TransportBus Corridor Strategy: This Strategy will identify and prioritise express bus corridors to deliver direct and attractive, limited stop services to key destinations, including rail stations. It should propose a programme of measures to include high frequency bus services, bus stop locations to tie into population centres and form focal points for rural area, and bus priority measures where necessary. Pump-prime funding for these measures will be sought from developer contributions. These corridors will provide an express movement function designed to be attractive in comparison with private car use for the same journey. The corridors would integrate with interchange hubs, and link with more local bus services and community transport.

Appendix 2 Parking Standards for Vehicles and Cycles Vehicle parking:

- 1. The standards relate to uses defined in the Town and Country Planning (Use Classes Order) 1987.
- 2. For any use not included in the standards below, 1. General vehicle parking standards for Planning Use Classes are not specified by the SDC Local Plan. The number of parking spaces will be a matter for negotiation and assessed according to individual circumstances. The standards represent SDC's Policy position for parking levels for developments. Where a departure from Policy is sought, the proposed provision will need to be demonstrated to be suitable based on the following
- The accessibility of the development.
- The type, mix and use of the development.
- The availability of and opportunities for public transport.
- Local car ownership levels; and
- The need to ensure an adequate provision of spaces for charging plug-in and other ultra-low emission vehicles.
- 2. Opportunities to improve the sustainable accessibility of the site, and for shared mobility solutions to reduce local car ownership, will be prioritised ahead of provision of parking above Policy levels—as measures to accommodate travel demand for new development. Provision of excessive parking levels at new development will not be supported due to the risk of encouraging unnecessary car travel where viable sustainable alternatives exist.



- 3. All standards are based on gross floor area by external measurement unless stated to the contrary.
- 3. All car parking spaces (except disabled) shall be a minimum of 2.4m x 4.8m, with a minimum aisle width of 6m.
- 4. When required, lorry parking spaces will range between 13.5m x 6.3m to 17.5m x 7.4m depending on the types of vehicles anticipated.
- 5. Parking levels for Mmixed use developments will be assessed as a sum of the parking requirements of the individual elements of the scheme based on the standards, with consideration of the potential for linked trips, i.e. one trip accessing two or more parts of the development, to reduce the overall parking demand.

This also applies to ancillary uses such as an office use within an industrial development, or a bar open to non-residents within a hotel.

- 6. Parking Management Plans will be required for mixed use developments to demonstrate how the parking resource will be managed across the whole site to ensure that excess levels of parking are not available to an individual land use which could provide an incentive for private car use over sustainable travel. An appropriate balance will be sought between unallocated and allocated parking with the aim of minimising the level of parking required for the development overall.
- 7. The requirement to provide appropriate levels of parking applystandards apply to new developments or extensions and to changes of use. When considering an extension to an existing use the opportunity to for reduced operational minimum parking levelsstandards will be considered.
- 8. For residential development the allocated parking spaces shall be provided within easy walking distance of the dwellings they intend to serve.

9The abbreviation FTE means 'full time equivalent' where used in these standards.

Disabled car parking bays:

- (a) Disabled parking bays (dpb) should be provided in relation to publicly accessed parking at a ratio of 1 dpb per 10 conventional parking bays.
- (b) Disabled parking bays should be large enough to facilitate access by wheelchair users, i.e. 3.6m x 4.8m, especially in public car parks. Only where space is limited will a smaller space (minimum 3.0m x 4.8m) or two adjoining spaces (of 2.4m x 4.8m each with a shared space between of 1.2m) be acceptable. A standard of 2.4m x 4.8m can be provided where the long side is left open for access.
- (c) The disabled car parking bays should be located close to an entrance to the building, with the route from the space to the building capable of use by a disabled person. This may require the provision of ramps (maximum gradient 1:20) and convenient handrails.
- (d) For pedestrian areas, bays should be within 50m of the destination.
- (e) Each bay should have a zone for transfer from car to wheelchair.
- (f) Each transfer zone should either serve two bays or be positioned in the corner of a parking area to avoid abuse by other drivers.
- (g) Bays and transfer zones should be clearly marked and should display the British Standard "Disabled" symbol, both on the road surface and on a discreet, but clearly visible, signpost or wall.
- (h) The bay should be level, without camber or flanking upstand kerbs.
- (i) No bay, or access to it, should be so restricted in height as to make it inaccessible for cars carrying wheelchairs on roof racks.

Ultra Low Emissions Vehicles (ULEV)

The Office of Low Emissions Vehicles started a consultation in July 2019 on policies for electric charging points for residential and non-residential properties. At the time of writing, these policies are not adopted by the Government. Stroud District Council seeks to maximise opportunities to secure ULEV infrastructure through planning policy to assist meeting carbon neutrality objectives. ULEV policy will be whichever is the greater requirement of adopted government policy, or:

Every new residential building with an associated car parking space will have a chargepoint.
 This also applies to buildings undergoing a material change of use to create a dwelling.

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- Every residential building undergoing major renovation with more than 10 car parking spaces to have cable routes for electric vehicle chargepoints in every car parking space.
- Every new non-residential building and every non-residential building undergoing major renovation with more than 10 car parking spaces to have one chargepoint and cable routes for an electric vehicle chargepoint for one in five spaces.
- Every existing **non-residential** building with more than 20 car parking spaces should have at least one chargepoint from 2025

To be classified as a chargepoint for the purpose of policy compliance, each chargepoint must be a minimum 7kW and be at least Mode 3 or equivalent. It is recognised that innovations are coming to market that use different types of chargers and charging speeds, such as wireless and ultra-rapid charging, although these are unlikely to be used in residential settings. Policy specifically allows for equivalence with Mode 3 chargepoints to allow for future innovation to not be excluded where it provides an equal or better facility.

Cycle parking:

A minimum of 2 cycle parking spaces must be provided at any new non-residential development, however small. Transport Assessments will need to demonstrate that levels of cycle parking are appropriate to the development being proposed.

In addition to the required level of parking provision (which should be under cover and secure), strategically significant developments (i.e. those included in Table A) should also provide showers and lockers for cyclists.

The Council may also seek shower and/or locker facilities in other developments that generate large numbers of employees.

In town centres developers have the option of paying commuted sums in lieu of the required provision, for public cycle parking to be provided by the District Council, although there must be a demonstrable solution to the required level of spaces being provided prior to grant of planning permission.

The location of cycle stands shall be as close as possible to the destination served, in secure positions or open positions where surveillance by staff or the general public is a deterrent to theft. At any site where 10 or more spaces are provided, the stands should be located under cover, be lit and appropriately signed. The detailed design and lighting of such facilities must have regard to the locality and to the proposed development. In residential development garages and rear garden space (for sheds etc.,) will be acceptable as cycle storage provision. In flats developments secure communal space should be provided. Where, due to specific circumstances, e.g. small development, access restrictions etc., the amount of car parking is reduced or waived, no reduction shall be made in the number of cycle spaces to be provided.

Table A:

Car parking standards for strategically significant land uses

This table will be deleted.

Table B:

Car parking standards for other land uses

This table will be deleted.

Table C:

Minimum cycle and motorcycle parking standards

This table will be retained.

Land Use	Car parking
A1 Food retail	1/60 sq m
A1 Non-food retail	1/120 sq m
A2 Professional services	1/166 sq m
A3 Public House/Restaurant	1/26 sq m
B1 (a) and (b) Office and R&D	1/166 sq m
B1 (c) /B2 Industrial	1/330 sq m
88 Warehousing/distribution	1/330 sq m
C1 Hotel	0.15/employee
C1 Hostel	0.15/employee
2 Hospital	0.15/employee
2 Nursing Home	0.15/employee
C2 Boarding School	0.15/employee + 0.15/student
C3 Dwelling houses/flats	1/dwelling
C3 Sheltered Housing	0.15/employee
D1 Doctor's/Vet's Surgery/Health Centre	0.15/employee
O1 School/Crèche/Day Centre	0.15/employee + 0.15/student
D1 Higher/Further Education	0.15/employee + 0.15/student
D1 Art Gallery, museum, library	1/300 sq m public area + 0.15/employee
01 Public Hall/Place of Worship	1/20 seats or 1/26 sq m
D2 Cinema, Concert Hall, Night Club	1/20 seats or 1/26 sq m
D2 Leisure/Sports Centre/Fitness Club	1/66 sq m

Definitions:

- Floorspace figures (in sq m) refer to Gross Floor Area.
- Employees refers to the total of full-time equivalent employees, e.g. a person employed half-time would count as 0.5.

Appendix E STS Interventions Mode Shift Framework

,	Ref.	•	Scale of Cost			lopment				Backgroui	
		Interventions	(1-Lowest to 5- Highest)	Trip Type		luction in car trips	Notes	Trip Type	Percentage red	duction in car trips	s Notes
					Min. (For Modelling)	Max. (Target, where different)			Min. (For Modelling)	Max. (Target)	
Strategic Sites											
All Strategic Sites	A	Travel Planning, internalisation, reducing the need to travel and facilitating home working. The combination of these measures will differ between sites, with each site expected to demonstrate how they will achieve a blanket mode shift/traffic reduction in addition to targeted measures as below.		All Development Trips	6%		To be applied to trip matrices before the targetted measures set out below.				Some measures will benefit surrounding residential areas such as reducing distances to facilities could increase propensity for active travel. However no reduction has been applied to background trips.
and at Whaddon - 2,500 dwellings Gloucester Fringe)	1	Provision of a multi-modal transport hub adjacent to the A4173 to allow interchange between sustainable modes		Trips to/from Gloucester City Centre. E.g. 2km from westgate st.	15% n		for sustainable travel into Gloucester	Trips past Whaddon towards Gloucester (A4173)	5%	~I	This would be reliant on disincentive for driving in Gloucester
	2	Local Measures: Modal filter on Naas Lane, pedestrian/cycle connection improvements, bus route through site.		Local trips to/from Waterwells area.	10%.		Priority for sustainable modes over car trips for local journeys.				Whilst there may be some local benefits it is not considered robust to apply background trip reductions.
South of Hardwicke - 1,200 dwellings (Gloucester Fringe)	3	Contributions to sustainable transport measures on the A38 corridor, incuding improvements to strategic bus services		Trips to/from Gloucester city centre, and to/from destinations along the A38 and A419 within Stroud District. Include buffer 800m and city centre definition.	5%/10%		Higher % reduction in trips to/from Gloucester than south on A38. 10% reduction to Gloucester City Centre, 5% on trips elsewhere				See corridor package - not stated here to avoid double counting
Eco Park M5 Junction 13 - 10ha (Stonehouse Cluster)	4	Contributions and support to sustainable transport measures on the A38 and A419 sustainable transport corridors		Included in "bus services" below	Included below		Included below.				See corridor package - not stated here to avoid double counting
	5	Dedicated shuttle bus service between site and Cam and Dursley and Stonehouse rail stations		Trips to/from Gloucester, Cheltenham, Bristol, Yate and Swindon. 2km buffer from rail stations.	5%		Mode shift from car to rail for longer distance trips. 5% applied due to number of interchanges	None			Minimal potential to pick up background trips
	6	Improvements to bus services to connect the site with Stonehouse, Stroud, Gloucester and other destinations			10%, with 5% for agreed partial zones ("Yellow")		Mode shift from car to sustainable modes on these corridors.				See corridor package - not stated here to avoid double counting
		Measures need to be accompanied with robust approach to parking management which limits access to parking for those who do not "need" to drive.									
Stonehouse North West (Standish within Stonehouse Cluster) -		Contributions and support to sustainable transport measures on the A38 and A419 sustainable transport corridors		Included below							See corridor package - not stated here to avoid double counting
650 dwellings	8	Contributions to enhanced bus service frequencies to key destinations including Stroud, Stonehouse, Gloucester, and Cam and Dursley Station		Trips to/from Stonehouse, Stroud and Gloucester, and intermediary locations along the A38 and A419	"Yellow" zones.		Slightly lower than other corridor sites due to distance from the corridor and split of provision between LWoS spine road and A419.				See corridor package - not stated here to avoid double counting

New settlement at Wisloe, Slimbridge - 1,500 dwellings & 5ha (Berkley cluster)	9	Contributions and support to public transport measures on the A38, potentially including diversion into the site.	2	Trips along the A38 including to/from Gloucester City Centre	10%		Intended to support high frequency express services				See corridor package - not stated here to avoid double counting
	10	Pedestrian/cycle connections to Cam and Dursely station	3	Trips to/from Gloucester, Cheltenham, Bristol, Yate. 2km buffer from rail stations.	10%.	20%	Supports access to Rail for longer distance trips. Max target would depend on significant improvement to provision.	Cambridge/Slimb			Likely to benefit a relatively low number of trips due to sparsely populated origin
	11	Sustainable 'spine' through Wisloe - Cam - Dursley i.e. A4135 corridor measures Contributions and support to sustainable	2	Local Trips to/from Cam and Dursley Trips along the A38	10%, 5% for "Yellow" zones.		Opportunity to capture local leisure/employment trips Intended to support high				
dwellings (Cam & Dursley cluster)		transport measures on the A38, notably bus services		including to/from Gloucester City Centre	"yellow" zones		frequency express services. Less %reduction than Wisloe due to distance from A38				
	13	Contributions towards A4135 corridor measures	2	Local Trips to/from Cam and Dursley	10%		Opportunity to capture local leisure/employment trips				
New settlement at Sharpness - 2,400 dwellings & 10ha (Berkley Cluster)	14	Direct public transport services to key destinations, including Bristol, Gloucester and employment nodes	3	Trips to/from central bristol, central gloucester	20%		Service would need to be established early and be direct. This would need to be an exemplary service and the modelled value incorporates potential for the rail service to be delivered.	Sharpness and Bristol /	15%	20%	Lower proportion as trip patterns established and home locations further from central pick up point.
	15	Potential re-opening of the Sharpness railway branchline for passenger services (including to Gloucester)	5	Trips to/from central gloucester	Not to be included in model - feasibility		NB this would supersede the direct public transport services measure above.	Sharpness and Gloucester	Not to be included in model -		Lower proportion as trip patterns established and home locations further from central pick up point.
	16			Trips to/from Bristol, Stroud, Cheltenham, and longer distance cities	Not to be included in model - feasibility		Creates direct access to longer distance rail services, likely with a	Trips to/from Bristol, Stroud, Cheltenham, and	Not to be included in model -	20%	Lower proportion as trip patterns established and home locations further from central pick up point.
	17	Cycle route to Stroud from Sharpness development	3	trips to/from Stroud and intermediary destinations e.g. Stonehouse	0%	5%	Distance is likely to be a barrier, although ebikes have the potential to be an enabler	Trips between Stroud and Sharpness	0%	5%	Distance is likely to be a barrier, although ebikes have the potential to be an enabler

Movement Corridors						 		
A38		Modal filters	4					
		Rapid bus / coach services to key	3					
		destinations such as Bristol						
		Improved bus frequency, bus stop	3					
		infrastructure and bus priority						
		Northern MetroBus extension	5					
	18	Low Investment	2			Trips using A38	5%	
	19	Medium Investment	3			Trips using A38	10%	
	20	High Investment	4			Trips using A38	15%	Model 15% to reflect High investment
								scenario and potential interchange with
								other corridors.
A419 / B4008		Cycle access improvements between	2			Trips between		
		Eastington and Chalford				Eastington and		
	ĺ					Chalford using		
						A419		
		Cycle access improvements to NCR 45,	2			Trips to Stroud		
		Stroud				(and Nailsworth)		
		1				using A419 and		
						A46		
		Cycle access improvements for Cainscross	2	†		Trips through		1
		roundabout, Stroud	-			Cainscross		
		Todinadoat, offodd				Roundabout		
		Improved provision for pedestrians and	2	+		Trips using Ebley		
		cyclists on the A419 Ebley Rd corridor	2			Road (through		
		Cyclists of the A419 Lbley Ita comadi				Ebley)		
		Improved bus frequency on A419 / B4008	3	+		Trips between		
		hative an Otravial Standards and	3					
		between Stroud, Stonehouse and				Stroud,		
		Gloucester (and, where appropriate, bus				Stonehouse and		
		stop improvements and bus priority)				Gloucester (using		
						A419 and B4008)		
	21	Low Investment	2			Trips using A419	5%	
	21 22 23	Medium Investment	3			Trips using A419	10%	
			4				15%	Model 150/ to reflect High investment
	23	High Investment	4			Trips using A419	13%	Model 15% to reflect High investment
								scenario and potential interchange with
								other corridors.
A4135		Completion of Cam - Dursley - Uley	2			Trips between		
A4133		Greenway	2			Cam, Dursley and		
		Greenway						
						Uley uisng A4135		
		Developing and estate and evaluation by sinch	0			Tring on A 4405		
		Removing pedestrian and cycle pinchpoints	2			Trips on A4135		
		along full-length of corridor	2	+		Tring on A4405		+
		Increase in bus frequency and improved	3			Trips on A4135		
		stop infrastructure, including improved				between Cam,		
		connections to Cam and Dursley railway				Dursley and		
		station		<u> </u>		Railway Station		1
		Bus priority measures along the corridor	3			Trips on A4135		
		1				between Cam,		
		1				Dursley and		
				L		Railway Station		
		Multi-modal interchange facilities at the A38	3	T		Trips on A38 and		
		and Cam and Dursley Station				towards Cam and		
		1				Dursley Railway		
		l			 	 Station		 <u> </u>
	24	Low Investment	2			Trips using	5%	
	25	Medium Investment	3			Trips using	10%	
	I -					A4135		
	26	High Investment	4			Trips using	15%	Model 15% to reflect High investment
		g mroodnone	•			A4135	1070	scenario and potential interchange with
						,11100		other corridors.
								Journal Collingols

Stroud / Stonehouse - Bristol.	27	Improved public transport services between Stroud, Stonehouse and Cam and Dursley Station	3					Trips between Stroud/Stonehous e and Bristol, Gloucester, Yate and Cam and Dursley	5%		2 stage journey with bus and rail. This option has been modelled in STS Scenario
	28	Express bus services between Stroud and Bristol (with a potential interchange in the vicinity of M5 Junction 13)	3					Trips between Stroud/Stonehous e and Bristol	10%		No interchange but limited catchment
	29	New rail station south of Stonehouse on the Bristol to Birmingham line (note: a number of options are being considered as part of a wider aspiration to provide such a station between Bristol and Gloucester	5					Trips between Stroud/Stonehous e and destinations on Bristol to Birmingham line including Bristol, Cheltenham	10%		Potential to include destinations further afield, e.g. Exeter and Manchester, but likely to be limited numbers
Towns									-		
Stroud	30	Improvements to Stroud station, including potential for an integrated transport hub	4					Trips to / from Stroud to existing rail destinations e.g. Swindon, Gloucester, Reading, London	5%		Improved access to rail.
	31	Walking and cycling improvements in Stroud Town Centre	3					Local trips in Stroud	5%		Mode shift for local trips
Cam and Dursley	32	M5 pedestrian / cycle overbridge to Cam and Dursley Station	4				Included in Measures above	Trips to / from Cam and Dursley Station			Included in A4135 corridor measures
	33	Extension and improvement to Cam and Dursley greenway	2				Included in Measures above	Trips between Cam, Dursley and Uley uisng A4135			Included in A4135 corridor measures
	34	Improved walking and cycling links connecting with Cam and Uley	2				Included in Measures above	Trips between Cam and Uley			Included in A4135 corridor measures
General											
		Policy Interventions Package	2	All Development	0%		In addition to measures above	Trips within Stroud DC		0%	Limited potential to influence existing trips
	36	Mobility Behaviours	2	All Development	0%		In addition to measures above	Trips within Stroud DC		1%	
	37	Public Transport packages, e.g. RTI, smart ticketing	3	All Development	0%	1%	In addition to measures above	Inter and intra- urban trips within Stroud and to/from Bristol/Gloucester		1%	
	38	Rail service improvements	4					Long distance trips		1%	
	39	Cycle access improvements to Gloucester & Sharpness Canal towpath, Gloucester	2				arguably could be	Trips between Sharpness and Gloucester (including destinations along the canal route)		2%	

Additional Notes

Trip rates used for each development have accounted for internalisation due to complementary land uses and sustainability benefits relating to location.

No additional reductions are proposed for "standard" measures such as Travel Planning and masterplans laid out to encourage sustainable travel.

This is not an exhaustive list of measures included in the STS but is designed as an exercise to reasonably identify the potential for mode shift to occur as a result of key measures or packages of measures.

This framework has been developed iteratively and been compared against the actual numbers of trips that these would relate to, through the SATURN exercise.

Measures need to be considered in combination with disincentive for driving, e.g. parking charges, congestion, parking availability etc

Two rates of percentage reduction have been defined. The minimum reduction represents a robust assumption and should be used for modelling purposes. The maximum reduction represents the potential mode shift that could be achieved by an intervention and can be considered a target if implemented.

Percentage reductions have been agreed with MM, SDC, HE, &GCC.

Trip types have been defined with reference to Mott MacDonalds SATURN model zones.



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