

Table 5.1: Outcome Metrics – Data Required

Outcome	Objective				Data to be Used	Data Source	Collated / Collected by
Real and perceived active travel safety improved	1	2	3	4	Perception of safety amongst pedestrians and cyclists	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
						Survey with Non-Users	SCR
Reduction in no. and severity of accidents and casualties (involving pedestrians / cyclists)	1	2	3	4	Accident and casualty numbers (pedestrians and cyclists) and cause of accidents	STATS19 data	Project Sponsor
Improved perceived quality of active travel infrastructure	1	2	3	4	Perception of walking and cycling provision in the area (e.g. desire lines, quality, signage)	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
						Survey with Non-Users	SCR
Address severance barrier for active travel	1	2	3	4	Mapped isochrones of before and after connectivity	TRACC	SYPTe
					Perception of severance barrier	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
						Survey with Non-Users	SCR
Improved local active travel connectivity	1	2	3	4	Mapped isochrones of before and after connectivity, number of people within defined travel time	TRACC	SYPTe
Enhanced active travel accessibility to stations	1	2	3	4	Passenger / public perception regarding ease of getting to station	Rail Passenger Survey	SYPTe
					Mapped isochrones of before and after connectivity, number of people within defined walking time of station	TRACC	SYPTe
Improved perception of active travel	1	2	3	4	Perceptions of active travel improved (e.g. willing to consider walking and cycling)	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
						Survey with Non-Users	SCR

Outcome	Objective				Data to be Used	Data Source	Collated / Collected by
Increased uptake of active travel	1	2	3	4	Number of people walking or cycling	Pedestrian and Cycle Counts	Project Sponsor
					Perceptions of amount walking / cycling (i.e. stated behaviours)	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
Improved quality of station environment	1	2	3	4	Facilities at station	Station Audit (see Table 4.1)	SYPTE
Greater availability of secure cycle parking	1	2	3	4	Cycle parking occupancy	Cycle Parking Count	Project Sponsor
Access for all at rail stations	1	2	3	4	Compliance with accessibility requirements	Station Audit (see Table 4.1)	SYPTE
					Perceptions of rail passengers	Rail Passenger Survey	SYPTE
Improved perception of rail station	1	2	3	4	Perceptions of rail passengers of quality of station (e.g. information, safety / security, accessibility)	Rail Passenger Survey	SYPTE
Increased rail patronage	1	2	3	4	Annual station entries / exits	Office of Rail and Road (ORR) Estimates of Station Usage	SYPTE
					Stated behaviours of rail passengers	Rail Passenger Survey	SYPTE
Widened catchment for tram-train services	1	2	3	4	Mapped isochrones of before and after connectivity, number of people within defined travel time	TRACC	SYPTE
Alternative mode for those accessing key destinations	1	2	3	4	Perception amongst employees at key destinations in the corridors	Employee Survey	SYPTE
Improved perception of tram-train	1	2	3	4	Perception of tram-train service	Transport Focus Tram Passenger Survey	SYPTE
					Perception of the new Magna stop and service available	Magna Stop Passenger Survey	SYPTE
Improved access to tram-train services	1	2	3	4	Use of P&R facility	P&R Count Data (Magna and Parkgate Stops)	SYPTE

Outcome	Objective				Data to be Used	Data Source	Collated / Collected by
Increased tram-train patronage	1	2	3	4	Tram-train boarding and alighting data	Operator Records	SYPTE
					Perceptions of amount of travel by tram-train and any change in the stop used	Magna Stop Passenger Survey	SYPTE
Reduced bus journey times	1	2	3	4	Bus journey times along defined routes / services	Operator Records / SYPTE Transport Corridor Data	SYPTE
Improved bus journey time reliability and punctuality	1	2	3	4	Standard deviation from planned journey time (for journey and at stops)	Operator Records / SYPTE Transport Corridor Data	SYPTE
Greater bus frequency	1	2	3	4	Number of services operating along route / corridor	Operator Records / SYPTE Timetable Database	SYPTE
Improved perception of bus	1	2	3	4	Passenger perception of bus reliability, punctuality, satisfaction etc	Bus Passenger Survey	SYPTE
					Number of complaints regarding the services along the corridor	SYPTE Customer Relationship Management (CRM) System Complaints	SYPTE
Increased bus patronage	1	2	3	4	Bus patronage data	Operator Records	SYPTE
	1	2	3	4	Perceptions of amount travel by the bus	Bus Passenger Survey	SYPTE
Broaden public transport connectivity	1	2	3	4	Mapped isochrones of before and after connectivity, number of people within defined travel time	TRACC	SYPTE
Reduced emissions per bus	1	2	3	4	Bus fleet composition	Operator Records	SYPTE
Reduced emissions associated with buses	1	2	3	4	Bus fleet composition	Operator Records	SYPTE
Re-routing of highway traffic	1	2	3	4	Change in traffic volume through links - traffic counts	Highway Data	Project Sponsor / SCR

Outcome	Objective				Data to be Used	Data Source	Collated / Collected by
Increased proportion of sustainable journeys	1	2	3	4	Stated mode of travel	Bus, Rail and Magna Stop Passenger Survey	SYPTE
						Household Travel Survey	SYPTE
					Stated mode to work	Employee Survey	Project Sponsor or SYPTE (depending on the outcomes of Sustainable Transport Access Fund (STAF) investment)
					Frequency of walking and cycling per person	Active Lives Adult Survey <i>(to provide overall understanding and complement scheme-specific data collected above)</i>	Project Sponsor
Modal shift from private car	1	2	3	4	Stated mode of travel	Bus, Rail and Magna Stop Passenger Survey	SYPTE
						Household Travel Survey	SYPTE
					Stated mode to work	Employee Survey	Project Sponsor or SYPTE (depending on the outcomes of STAF investment)
					Cordon counts	Cordon Count data	Project Sponsor / SCR / SYPTE
Greater connectivity between settlements	1	2	3	4	Public transport journey time between key settlements	Public Transport Timetable Information	SYPTE
					Perceptions of stakeholders	Interview	SYPTE
Access to opportunities / key destinations	1	2	3	4	Perceptions of stakeholders	Interview	SYPTE
					Perceived change in accessibility	Employee Survey	Project Sponsor or

Outcome	Objective				Data to be Used	Data Source	Collated / Collected by
							SYLTE (depending on the outcomes of STAF investment)
					Mapped isochrones of before and after connectivity contrasted with deprivation, employment and business growth data from Office of National Statistics (ONS)	TRACC	SYLTE
Enhanced perception of 'place'	1	2	3	4	Perceptions of stakeholders	Interview	Project Sponsor or SYLTE (depending on the outcome of STAF investment)
					Perceptions of those walking and cycling in the area	Pedestrian and Cyclist Intercept Survey	Project Sponsor (larger schemes)
					Perceptions of local residents	Household Travel Survey	SYLTE
						Telephone Survey	SCR
Improved highway journey time reliability (all vehicles)	1	2	3	4	Standard deviation to average journey time	Data sources being investigated	Project Sponsor / SCR
Reduced highway journey times (all vehicles)	1	2	3	4	Average journey times for defined routes	Data sources being investigated	Project Sponsor / SCR
Enhanced traffic flow characteristics	1	2	3	4	Traffic volumes through links	Highway Data	Project Sponsor
					Average speed through links	Highway Data	Project Sponsor
						DfT Congestion Statistics	Project Sponsor

Table 5.2: Impact Metrics – Data Required

Impact	Objective				Data to be Used	Data Collection	Collated / Collected by
Greater levels of physical activity	1	2	3	4	Perceptions amongst pedestrians and cyclists	Pedestrian and Cyclist Intercept Survey	Project Sponsor <i>(larger schemes)</i>
	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
Physical health and wellbeing benefits	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
Mitigate congestion	1	2	3	4	Levels of delay along corridors	Data sources begin investigated	SCR
Improved local air quality	1	2	3	4	Nitrogen dioxide (NO ₂) levels	Diffusion Tubes or Modelling <i>(to be determined)</i>	Project Sponsor
Reduced deprivation levels and improved social inclusion	1	2	3	4	Proportion of Lower-layer Super Output Areas (LSOAs) within 20% most deprived	Index of Multiple Deprivation (IMD)	SCR
					Perceptions of stakeholders	Interviews	SYPTE
Reduced unemployment	1	2	3	4	Claimant Count numbers	Claimant Count data	SCR
Support realisation of housing developments	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
Support realisation of economic developments	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
Support retention / growth	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
					Number of employees	Business Register and Employment Survey (BRES)	SCR
					Business counts	ONS – UK Business Counts	SCR
Sites more attractive to investors / business	1	2	3	4	Perceptions of stakeholders	Interviews	SYPTE
					Business counts	ONS – UK Business Counts	SCR