Neighbourhood Forums Highways Maintenance

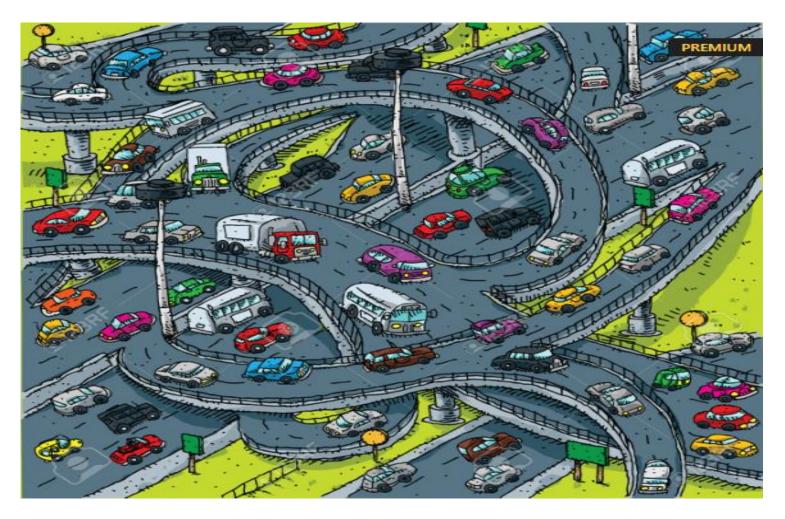
Lee Holland

Head of Engineering Services

October 2023



What do we mean by "Highways"?

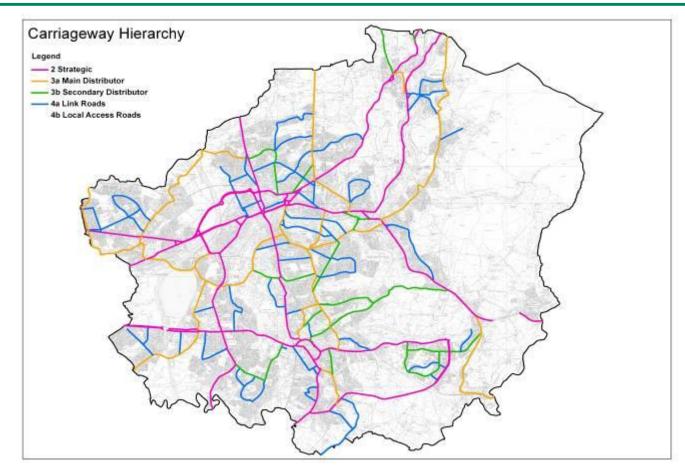




40 sq. miles / 95,000 properties / 231,000 residents 73km Principal Roads 70km Classified Roads 615Km Unclassified Roads 1,155Km Footways 48,126 Gullies 25,341 Street Lighting columns 4,000 Signs (illuminated and non-illuminated) 159 Bridges 304 Retaining Walls / Structures



Tameside's Highway Hierarchy



Establish maintenance strategies relative to demand / risk



Asset Valuation for Whole of Government Accounts (WGA)

2022 Return	Gross Replacement		Depreciated Replacement		
Asset Type	Cost	Depreciation	Cost		
	(£m)	(£-m)	(£m)		
Carriageways	1,034	78.3	955.7		
Footways	254.4	69.8	184.6		
Bridges / Structures	363.8	109.3	254.5		
Street Lighting	47.1	28.5	18.6		
Street Furniture	26.9	18.3	8.6		
TOTAL	1,726.2	304.2	1,422.0		



- Highways (footways, roads and drainage)
- Structures (bridges and retaining walls)
- Street lighting (lighting columns or illuminated signs)
- Winter maintenance (gritting)

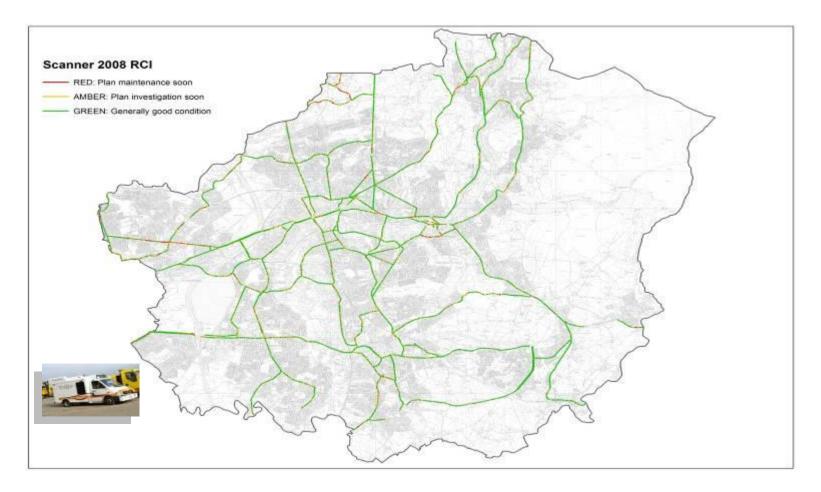


Highway Assets Annual Maintenance Investment

Highway Annual Maintenance Investment									
	DfT Toolkit for steady state (£m)	DfT & TMBC allocations (£m)							
Highways	£6.18	£3.12							
Structures	£2.26	£0.58							
Street Lighting	£2.00	£0.61							
Total:	£10.44	£4.31							

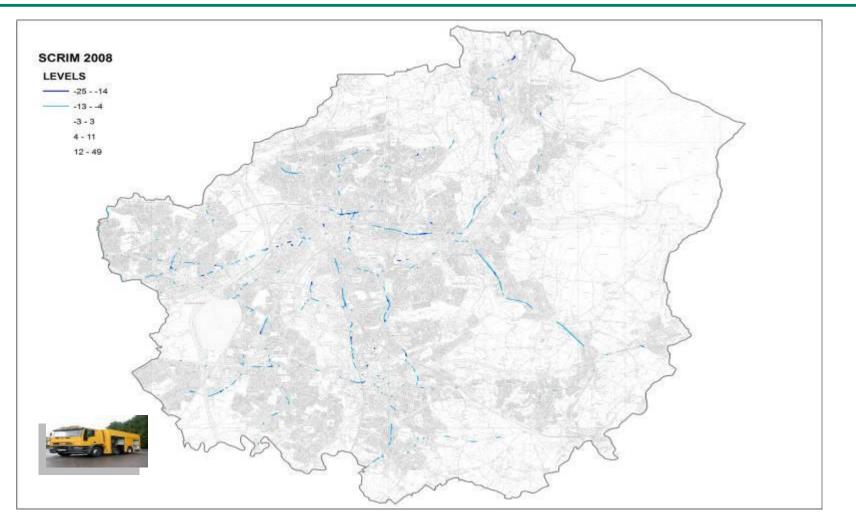


Programme Building Classified Roads – SCANNER



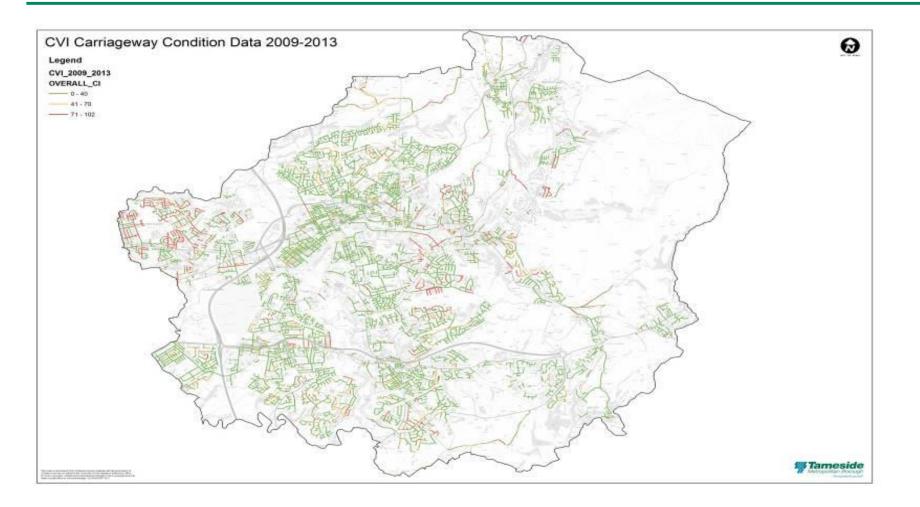


Programme Building Classified Roads – SCRIM





Programme Building Unclassified Roads - CVI



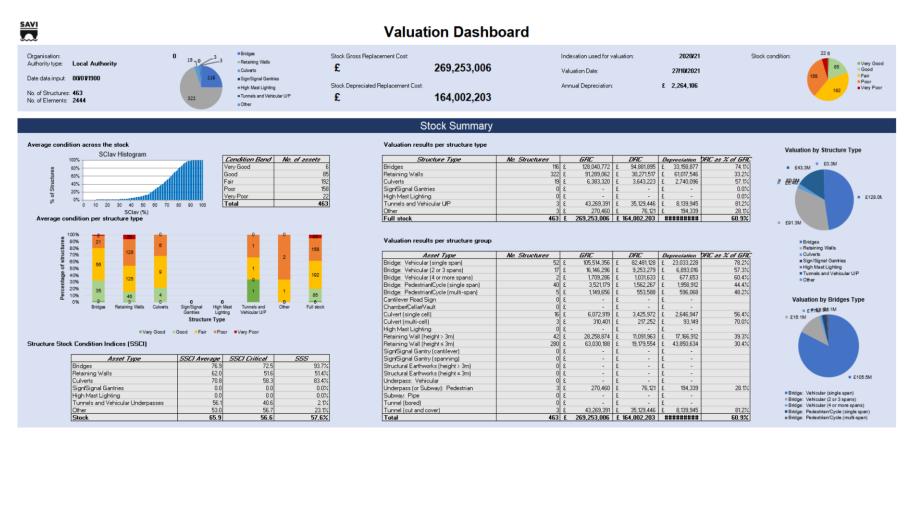


<u>Condition Rating – 'Traffic Light'</u>

<u>Cond</u> Ratin		Desc	ription
9	Very Poor	RED	Very poor condition, regular repairs needed, should be consider for major works as soon as possible
8	Poor	RED	Difficult to keep serviceable, major works may be the only way to achieve improvements
7	Deteriorating	RED	Repairs needing to be ordered more each inspection to maintain in reasonable condition, but not needing major works at this time
6	Below Average	AMBER	Deteriorating, numerous openings and requiring a small number repairs each inspection
5	Average	AMBER	Reasonable condition, what would be consider to be normal condition; neither good or bad
4	Fair	AMBER	Starting to exhibit a small amount of wear and tear but in reasonable condition
3	Good	GREEN	No work needed to be considered for some time, few repairs needed at each inspection
2	Very Good	GREEN	May be a few years old but no deterioration, very few repairs needed at each inspection
1	Excellent	GREEN	Looks recently renewed

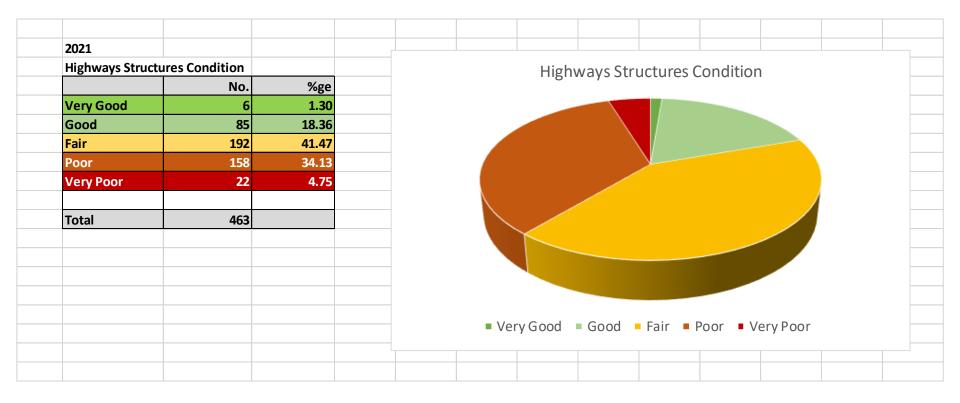


Highway Structures





Highway Structures





Street Lighting

AMESIDE MBC		INVESTIMENT	JUNIMART			0000			COLUMNS BASED C	A LEGRINICAL RE			1		
TREET LIGHTIN	NG					GOOD	÷	Acceptable		→	Continue to moni				
	_	ACTION				FAIR	→	Medium to low pr		→			start structurally testin		
2022		TARGET	TESTING	TESTING	REPLACE	POOR BAD	→ →	Medium to high p High priority	riority	→ →			cturally test and replac		it funds all
2022		CONDITION AND AGE PROFILE				DAD	7	riigii priority		7	These assets should be targetted for replacement first				-
		GOOD	FAIR	POOR	BAD	Total investment	Total	THREAT RISK 0	THREAT RISK 1	THREAT RISK 2	THREAT RISK 3	Columns	Average investment		
		THREAT RISK 0	THREAT RISK 1	THREAT RISK 2	THREAT RISK 3	per column size	columns					requiring	needed per unit		
		0-15 years	16 - 25 years	26-30 years	31 + years		and signs	0-15 years	16 - 25 years	26-30 years	31 + years	action			
ASSET	S														
≤ 6M COLU	UMINS	£248,300	£931,350	£158,865	£4,857,600	£6,196,115	18,251	3,820	8,870	1,513	4,048	18,251	£339	v	
8M COLU	MNS	£30,810	£46,095	£26,880	£3,408,500	£3,512,285	3,174	474	439	256	2,005	3,174	£1,107		
10M COLU	JMINS	£52,325	£56,280	£40,320	£3,332,600	£3,481,525	3,479	805	536	384	1,754	3,479	£1,001		
								-							
12M COLU	UMIN	£0	£10,500	£25,095	£220,000	£255,595	439	0	100	239	100	439	£582		
HERITAGE CO	DLUMINS	£6,175	£27,300	£13,650	£455,000	£502,125	615	95	260	130	130	615	£816		
ILLUMINATE		£4.160	£31.500	£42.000	£2.040.000	£2.117.660	2.464	64	300	400	1.700	2.464	£859	-	
ILLUMINATEL	DSIGNS	£4,160	£31,500	142,000	£2,040,000	£2,117,660	2,464	64	300	400	1,700	2,464	1859		
UMNS & SIGNS	INVESTMENT	£341.770	£1.103.025	£306.810	£14.313.700	TOTALS	28.422	5.258	10.505	2.922	9.737	28.422	£4.705		
LONINS & SIGNS	INVESTMENT	\$341,770	£1,103,025	1,306,810	£14,313,700	TUTALS	28,422	5,258	10,505	2,922	9,/3/	28,422	£4,/05	l	
			40	TION											
		TA	RGET	REPLACE	REPLACE										
			4	¥	4				BOLLARD CONDITI	ON CATEGORY					
			CONDITION A	ND AGE PROFILE		Total investment	Total	Good	Fair	Poor	Bad	Bollards	Average investment		
		0 - 5 YEARS	6 - 10 YEARS	11 - 15 YEARS	16 + YEARS	required on	bollards	condition	condition	condition	condition	requiring	needed per unit		
BOLLAR	RDS	£5,005	£10,000	£5,000	£420,000	bollards		0 - 5 YEARS	6 - 10 YEARS	11 - 15 YEARS	16 + YEARS	action			
BOLLARD INVE	ESTMENT	£5,005	£10,000	£5,000	£420,000	£440,005	927	77	100	50	700	927	£475		
VESTMENT VALUE		£346.775	£1.113.025	£311.810	£14.318.700										
VESTMENT VALUE	E ALL ASSETS	£346,775	£1,113,025	£311,810	£14,318,700										
NOTES															
110120						GOOD	£346.775	5			GOOD ASSETS	5.335	i i		
FAIR	Is the point at	which NDT (Non	destructive column	testing begins)		FAIR	£1,113,025				FAIR ASSETS	10,605			
POOR					ual sheets assume	POOR	£311,810				POOR ASSETS	2,972	2		
					quired if columns in	BAD	£14,318,700				BAD ASSETS	10,437			
			pplies to signs and				£16,090,310)				29,349	9		
her lighting such as	s lighting on woo	den poles has be	en included within	the appropriate a	sset		1	1		<u> </u>	<u> </u>				
						TO		TMENT REQUIR		IN AND	H I	TOTAL NUN	IBER OF ASSETS AT	EACH	
allowance has b lumns heights in be					stage.			ACHIEVE THRE	AT RISK O				CONDITION		-
iumns neights in be specific data has l											12.000				-
ormation has been				a within symology					✓ ■ £14.31		12,000	-			
surveys being un				uld he treated as	such				±14,31			L	10,605	10,437	
ourreys being an		Ciritation Carnior			Such				69	20					
price of the lumin	aire can be rem	oved once the LE	Dinvest to save p	rogramme is comp	lete.						10,000				
assumed columns															
columns based on	n typical design li	fe of 25 years									8,000				
	Threat	All assets at		Treatment											
	Risk	Risk Level									6,000	5 3 3 5	· · · · · · · · · · · · · · · · · · ·	_	
GOOD	0	5 335	Those supports :	re considered to I	221/0										
0000	U	3,333	the least risk	ne considered to I	iave.										
			ure least risk								4,000				
											4,000		2,972		
FAIR	1	10.605	These supports h	ave manageable i	isk and should he			\sum							
	- ·		considered for st								2.005				
								\	£346,775,2%		2,000				
							£311.810.2	« \ <mark>-</mark>							
POOR	2	2,972	These supports h	ave manageble ri	sk but		1311,010,2	./*f	1,113,025,7%						
			should be progra	mmed for replacer	nent as they						0 +				
			have exceeded t	neir design life by	the manufacturer		_					GOOD		AD ASSETS	
												ACCETC	ASSETS ASSETS		
							6	OOD FAIR	POOR BAD			ASSETS A	ASSETS ASSETS		
BAD	3	10,437	These supports p				G	OOD FAIR	POOR BAD			ASSEIS	ASSETS ASSETS		
BAD	3	10,437	These supports p to the public and assets should be	an Operating Auth	ority. These		_ G	OOD FAIR	POOR BAD	!		ASSETS	ASSETS ASSETS	i I	





- Age profile of our columns is dictating our strategy for maintenance
- We undertake structural testing on a percentage of our columns
- We undertake visual inspections
- We undertake electrical testing



Winter Maintenance





Risk Management



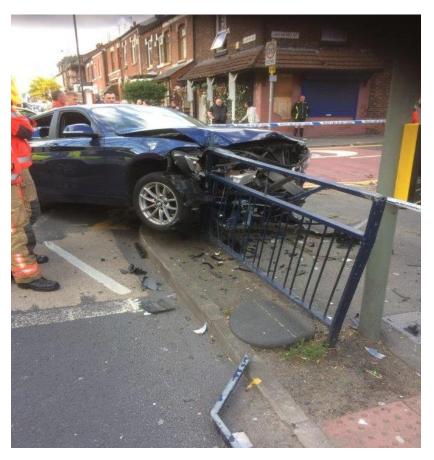


- We undertake regular inspections of the network based on our policy.
- The frequency is determined on a risk based approach.
- Interventions are based on our criteria
- Inspections undertaken last year
 - 7,516 footway
 - 7,118 carriageway



On-Call Engineer







Highways Maintenance



