Neighbourhood Forums Highways Maintenance

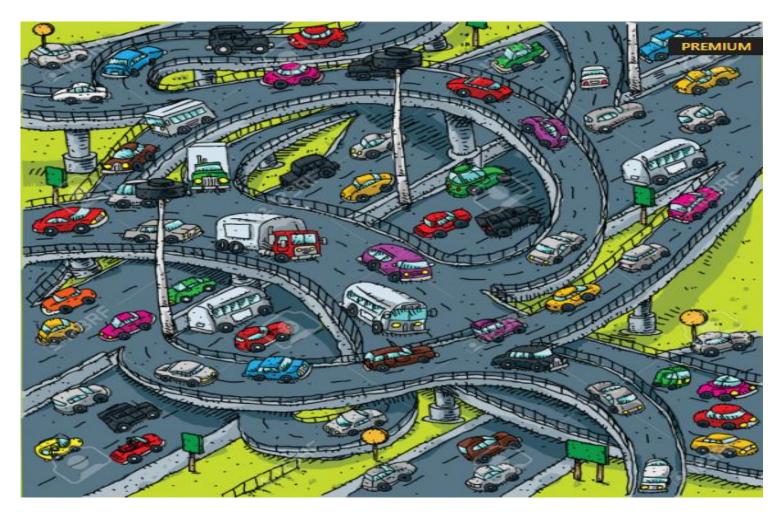
Lee Holland

Head of Engineering Services

October 2023



What do we mean by "Highways"

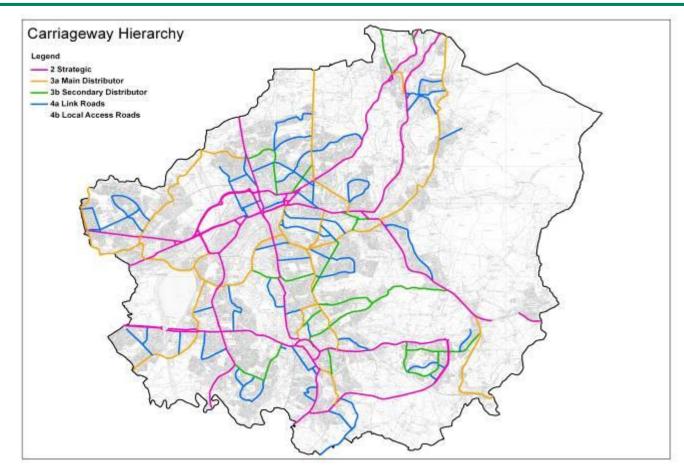




40 sq. miles / 95,000 properties / 231,000 residents 73km Principal Roads 70km Classified Roads 615Km Unclassified Roads 1,155Km Footways 48,126 Gullies 25,341 Street Lighting columns 4,000 Signs (illuminated and non-illuminated) 159 Bridges 304 Retaining Walls / Structures



Tameside's Highway Hierarchy



Establish maintenance strategies relative to demand / risk



Asset Valuation for Whole of Government Accounts (WGA)

<u>2022 Return</u>	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)

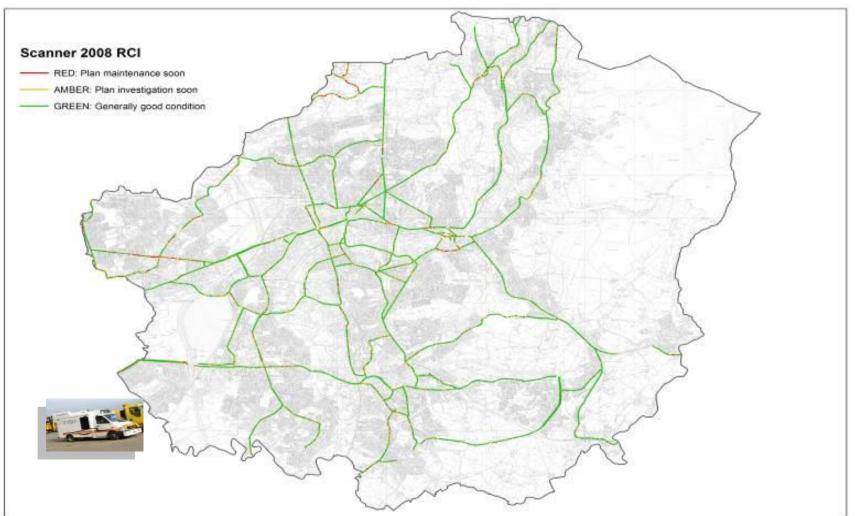


Highway Assets Annual Maintenance Investment

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						

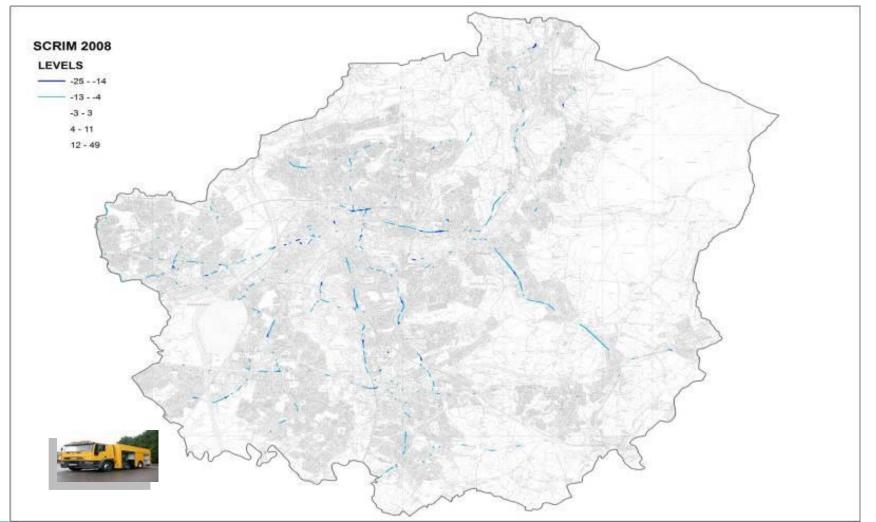


Programme Building Classified Roads – SCANNER



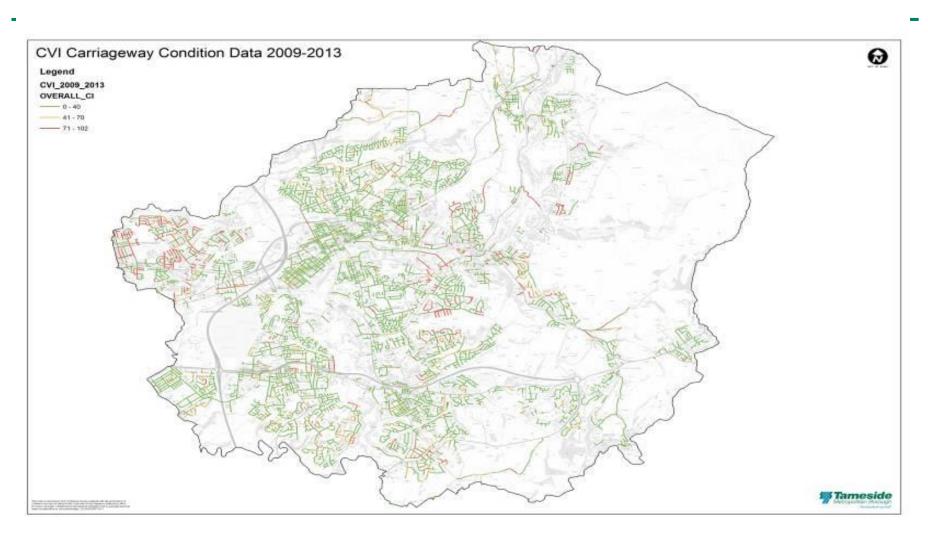


Programme Building Classified Roads – SCRIM





Programme Building Unclassified Roads - CVI



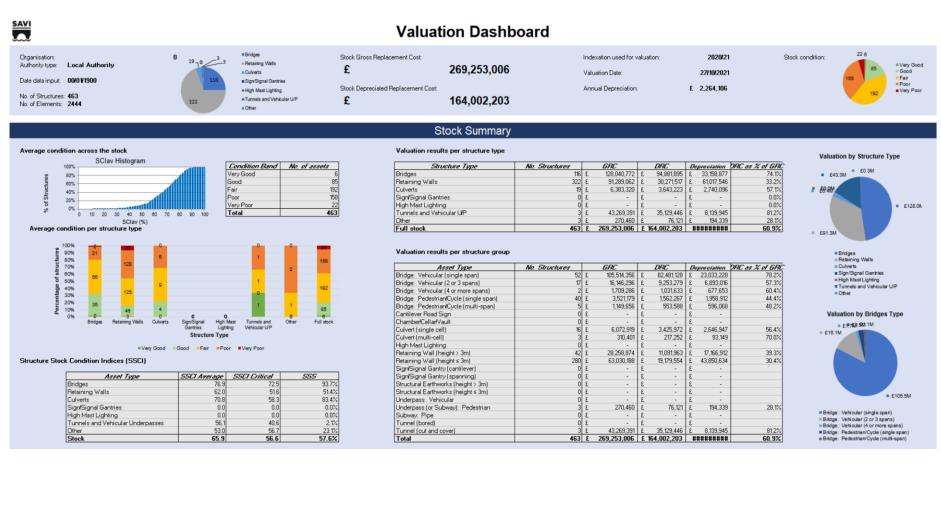


<u>Condition Rating – 'Traffic Light'</u>

<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

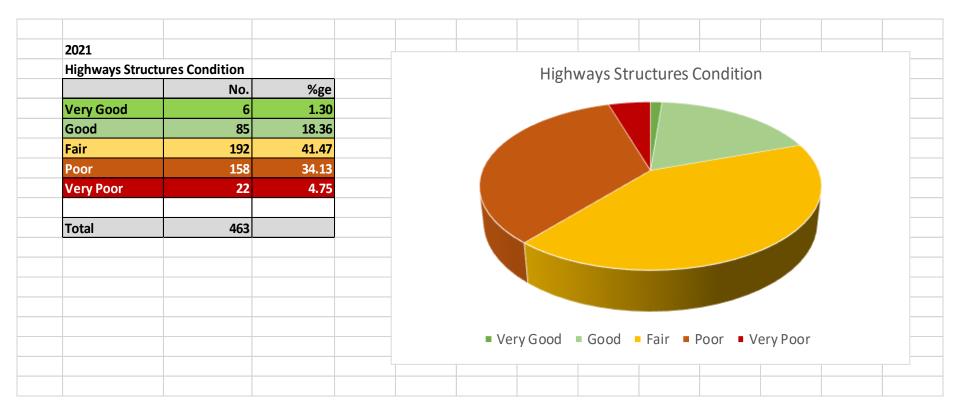


Highway Structures



Metropolitan Borough

Highway Structures





Street Lighting

		INVESTMENT	SUMMARY						COLUMINS BASED C					
REET LIGHTING	3					GOOD	÷	Acceptable		<i>→</i>	Continue to mon			
				TION		FAIR	<i>→</i>	Medium to low pr		<i>→</i>			start structurally testing	
2022		TARGET	TESTING	TESTING	REPLACE	BAD	→ →	Medium to high p	riority	→ →			cturally test and replac	
2022		¥		↓ ND AGE PROFILE	+	BAD	→	High priority		7	Inese assets sr	iouid be target	ted for replacement fir	st
		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	THE CONTROLLED	in the second second	THE CONTRACT	Thicker Hubber	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		
ASSETS			-						-					
≤ 6M COLU	MNS	£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 COLUM	NS	£30,810	£46,095	£26,880	£3,408,500	£3,512,285	3,174	474	439	256	2,005	3,174	£1,107	
10M COLUN	INS	£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	MN	£0	£10,500	£25,095	£220,000	£255,595	439	0	100	239	100	439	£582	
	1000	£6.175	£27.300	£13.650	£455.000	£502.125	015	05	000	400	130	015	£816	
HERITAGE COL	UMNS	£6,175	£27,300	£13,650	£455,000	£502,125	615	95	260	130	130	615	£816	
ILLUMINATED	010110	04.400	£31,500	0.40.000	00.040.000	00.447.000	0.404		000	400	1 700	0.101	£859	-
ILLUMINATED	SIGNS	£4,160	131,500	£42,000	£2,040,000	£2,117,660	2,464	64	300	400	1,700	2,464	1859	
LUM NS & SIGNS I	NVESTMENT	£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	1
		2041,110	21,100,020	2000,010	_14,010,100	TOTALO	10,411	0,200	10,000	2,022	5,101		24,000	1
				TION		1					1			
			RGET	REPLACE	REPLACE									
		¥	Ŷ	¥	Ŷ				BOLLARD CONDITI	ONCATEGORY				
				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	
BOLLARD)S	£5,005	£10,000	£5,000	£420,000	bollards		0 - 5 YEARS	6 - 10 YEARS	11 - 15 YEARS	16 + YEARS	action		4
BOLLARD INVEST	TMENT	£5,005	£10,000	£5,000	£420,000	£440,005	927	77	100	50	700	927	£475	
DOLLARD INVE		23,003	210,000	23,000	2420,000	2440,005	321		100		700	321	2475	-
ESTMENT VALUE	ALL ASSETS	£346.775	£1.113.025	£311.810	£14.318.700									
NOTES														
						GOOD	£346,775				GOOD ASSETS	5,335		
FAIR			destructive column			FAIR	£1,113,025				FAIR ASSETS	10,605		
POOR					ual sheets assume quired if columns in	POOR BAD	£311,810 £14,318,700				POOR ASSETS BAD ASSETS	2,972		
			plies to signs and		quired il columns in	BAD	£16,090,310				BAD ASSELS	29,349		
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e	igning on wee	aun poleo nuo be			5561	ТО	TAL INVEST	MENT REQUIR	ΕΟ ΤΟ ΜΔΙΝΤΔΙ) H		IBER OF ASSETS AT	FACH
allowance has be	en taken for	underground a	ssets/Feeder pi	llars etc at this	stage.			ACHIEVE THRE					CONDITION	Ericii
umns heights in bet	ween have be	en added to the n	ext highest column	n band	_									
specific data has be	een gathered f							ACHIEVE THRE						
rmation has been t			d age profiles exis	st within symology	-			ACHIEVE THREE	_		12,000			
		submission with	ed age profiles exis out					ACHIEVE THREE	£14,31		12,000	[10.605	
		submission with	ed age profiles exis out					ACHIEVE THRE	£14,311		12,000	[10,605	10,437
surveys being und	lertaken the inf	f submission with ormation cannot b	ed age profiles exis out be verified and sho	ould be treated as	such						12,000	[10,605	10,437
surveys being und price of the lumina	lertaken the inf ire can be rem	7 submission with ormation cannot b oved once the LE	ed age profiles exis out be verified and sho	ould be treated as	such							[10,605	10,437
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Street Lighting

- 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



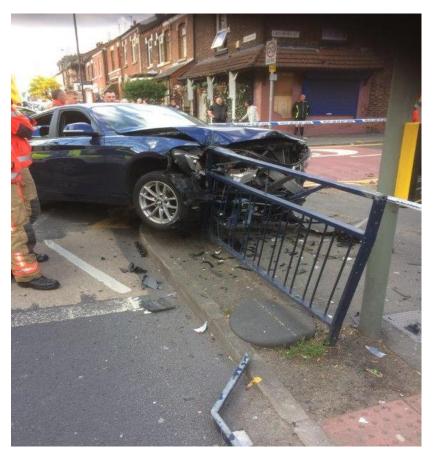


- We undertake regular inspections of the network based on our policy.
- The frequency is determined on a risk based approach.
- Interventions are based on our criteria.
- Inspections undertaken last year
 - 7,516 footway
 - 7,118 carriageway



On-Call Engineer







Highways Maintenance



