Neighbourhood Forums Highways Maintenance

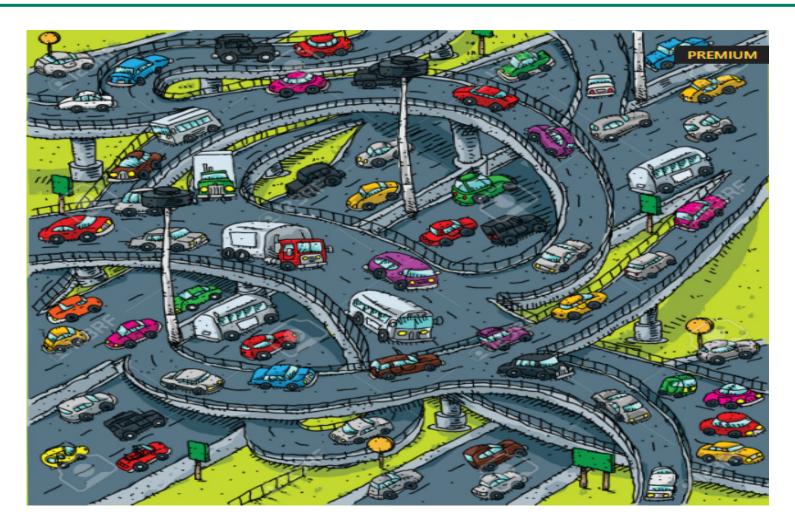
Lee Holland

Head of Engineering Services

October 2023



What do we mean by "Highways"





Tameside's Highway Network

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

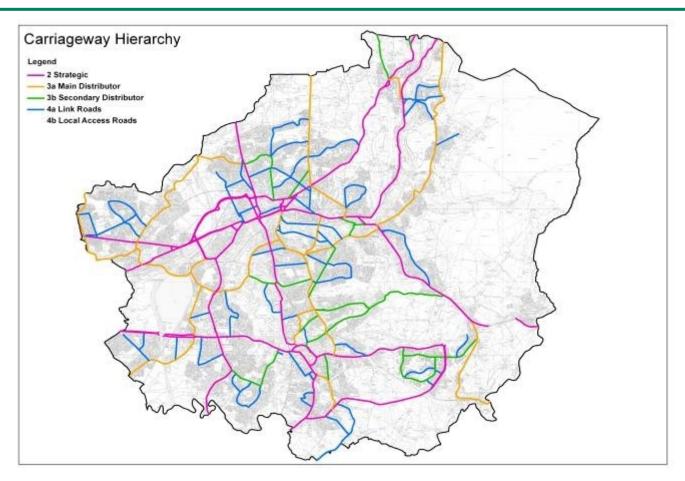
4,000 Signs (illuminated and non-illuminated)

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)

Gross		Depreciated
Replacement		Replacement
Cost	Depreciation	Cost
(£m)	(£-m)	(£m)
1,034	78.3	955.7
254.4	69.8	184.6
363.8	109.3	254.5
47.1	28.5	18.6
26.9	18.3	8.6
1,726.2	304.2	1,422.0
	Replacement Cost (£m) 1,034 254.4 363.8 47.1	Replacement Cost (£m) Depreciation (£-m) 1,034 78.3 254.4 69.8 363.8 109.3 47.1 28.5 26.9 18.3



Highway Asset Groups

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

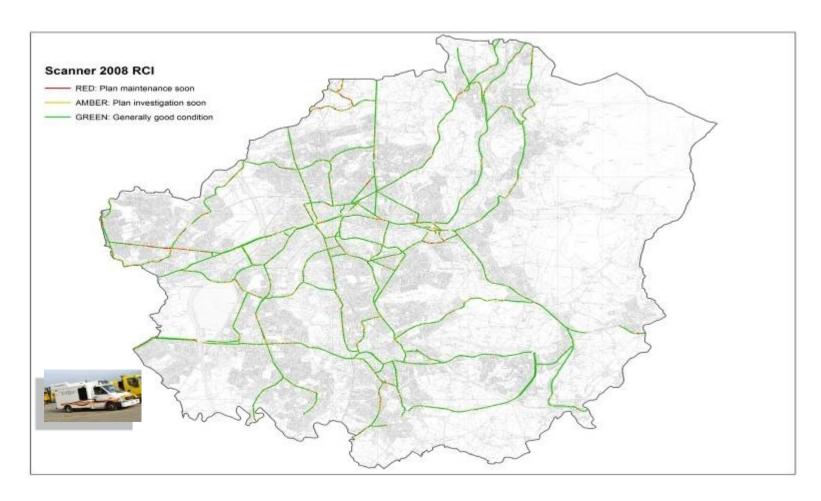


Highway Assets Annual Maintenance Investment

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			

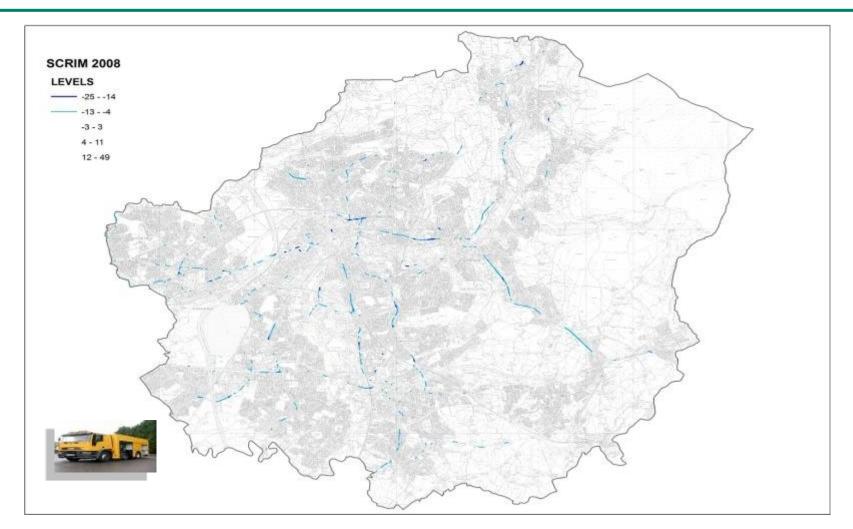


<u>Programme Building Classified Roads - SCANNER</u>



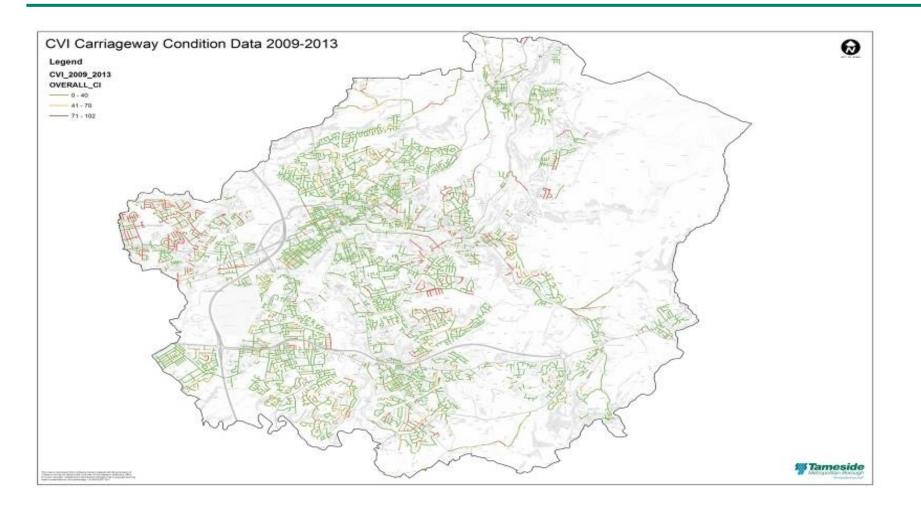


Programme Building Classified Roads - SCRIM





Programme Building Unclassified Roads - CVI





Condition Rating – 'Traffic Light'

Condi Rating			
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



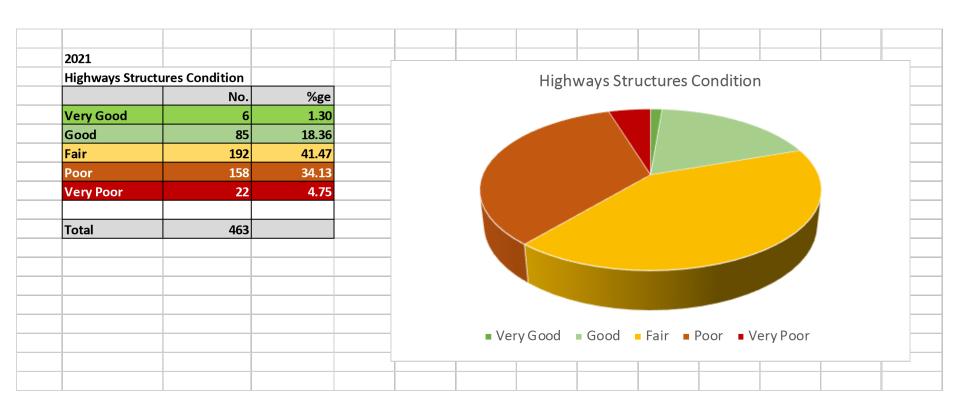
Highway Structures

SAVI

Valuation Dashboard Stock Gross Replacement Cost: Indexation used for valuation 2020/21 Stock condition Organisation: -Retaining Walls Very Good Good Fair Poor Authority type: Local Authority £ 269,253,006 Culverts Valuation Date: 27/10/2021 Date data input 00/01/1900 ■Sign/Signal Garbles Stock Depreciated Replacement Cost Annual Depreciation: £ 2,264,106 #High Mast Lighting No. of Structures: 463 Tunnels and Vehicular U/P £ 164.002.203 No. of Elements: 2444 Other Stock Summary Average condition across the stock Valuation results per structure type Valuation by Structure Type SClav Histogram Condition Band No. of assets Structure Type No. Structures GRO Depreciation DRC as % of GRC ■ £0.3M 128,040,772 33,158,877 80% Bridges 94,881,895 74.1% 91,289,062 30.271.517 61.017.546 33.2% 57.1% 80% Retaining Walls 192 Culverts 6,383,320 3,643,223 2.740,096 # EPAN 40% 0.0% 150 22 Sign/Signal Gantries Very Poor High Mast Lighting £120.0A 463 Tunnels and Vehicular UP 43,269,391 35,129,446 8,139,945 81.2% 10 20 30 40 50 60 70 80 90 100 SCIav (%) Average condition per structure type Full stock 269,253,006 E 164,002,203 ########## = £91.3M Valuation results per structure group 90% 80% 70% Bridges Retaining Walls ■ Culverts No. Structures Depreciation DRC as % of GRC Asset Type GRC 60% ■ Sign/Signal Gantries 105,514,356 Bridge: Vehicular (single span) 82,481,128 E 78.2% 57.3% 23.033.228 #High Mast Lighting 50% Bridge: Vehicular (2 or 3 spans) 16.146.296 9.253.279 6.993.0% Tunnels and Vehicular U/P 40% 30% Bridge: Vehicular (4 or more spans) 1,709,296 1.031633 677,653 60.4% ■ Other Bridge: Pedestrian/Cycle (single span) 3 521 179 1.562,267 1,958,912 44.4% 20% Bridge: Pedestrian/Cycle (multi-span) 1,149,656 553,588 596,068 48.2% 10% Cantilever Road Sign Valuation by Bridges Type High Mast Lighting Chamber/Cellar/Vault Sign/Signal Cantries ■ 6.1758.938.1M 6,072,919 3,425,972 2,646,947 Culvert (single cell) Structure Type 70.0% Culvert (multi-cell) 310,401 217,252 93,149 High Mast Lighting ■Very Good ■Good ■Fair ■Poor ■Very Poor Retaining Wall (height > 3m) 42 280 28,258,874 11,091,963 17,166,912 39.3% Retaining Wall (height ≤ 3m) Structure Stock Condition Indices (SSCI) 63,030,188 19,179,554 43,850,634 30.4% Sign/Signal Gantry (cantilever) Asset Type SSCI Average SSCI Critical Sign/Signal Gantry (spanning) Bridges Structural Earthworks (height > 3m) Retaining Walls 62.0 51.4% Structural Earthworks (height < 3m) Culverts 70.8 58.3 83.4% Underpass: Vehicular 0.0 Sign/Signal Gantries 0.0 0.0% Underpass (or Subway): Pedestrian 270,460 76,121 194,339 28.1% Bridge: Vehicular (single span) High Mast Lighting 0.0% Subway: Pipe Bridge: Vehicular (2 or 3 spans) Bridge: Vehicular (4 or more spans) Tunnels and Vehicular Underpasses 56. 40.6 21% Tunnel (bored) Other Stock Tunnel (out and cover) Bridge: Pedestrian/Cycle (single span) sBridge: Pedestrian/Cycle (multi-span) Total

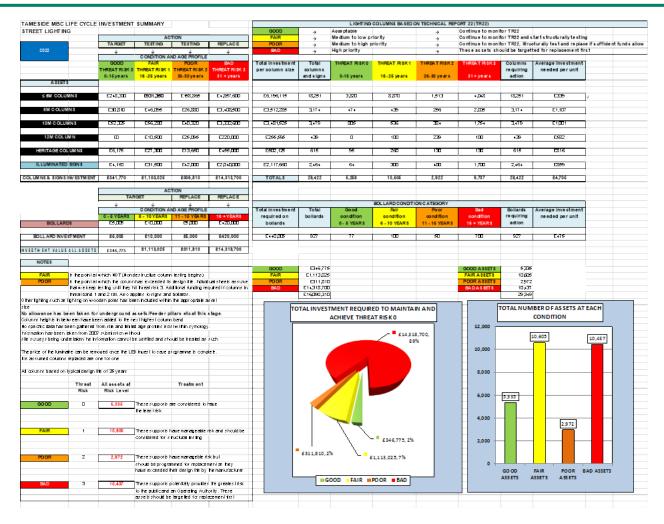


Highway Structures





Street Lighting





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



SORRY, SON ... THERE'S NO APP FOR THAT



Risk Management





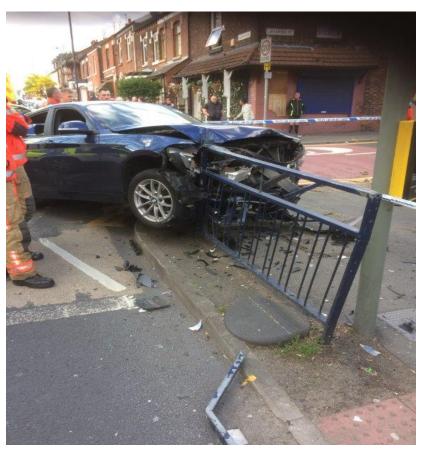
Risk Management

- 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





