

REPORT TO: Policy and Performance Review Committee

MEETING DATE: 12 December 2024

BY: Executive Director for Place

SUBJECT: Roads Asset Management –

Annual Status and Options Report 2024

1. PURPOSE

- 1.1 The purpose of this report is to present a summary of the Council's roads asset status as of financial year 2023-24. The report:
 - describes the status of the asset, its current condition, and performance;
 - defines the value of the assets;
 - details the service that the asset and current budgets are able to provide;
 - presents the options available for the future.
- 1.2 In accordance with the Chartered Institute of Public Finance and Accountancy (CIPFA) Code of Practice on Transport Infrastructure Assets, road assets are split in to 6 distinct Asset Groups: Carriageways; Footways and Cycleways; Street Lighting Status; Structures; Traffic Management Status and Street Furniture.
- 1.3 This report advises on Carriageways, Footways, Street Lighting, Traffic Management Systems, Electric Vehicle (EV) Charging Points and Road Structures, that are referenced in Appendix A Status and Options Report 2024.

2. RECOMMENDATIONS

- 2.1 To note the content of the report
- 2.2 To note Officers recommendation of investment for each of the assets covered within the report.

Asset	Current Investment	Recommended Investement	
Carriageways	£3.2M	£8.45M	
Footways	£800K	£1.6M	
St lighting	£450k	£4M *	
Traffic Signals	£70K	£70K	
Road Structure	£250K	£250K	
* £4M/Year ove			

3. BACKGROUND

- 3.1 In 2015 East Lothian Council in conjunction with the Society of Chief Officers for Transportation Scotland (SCOTS) commissioned Atkins to assist in the development of an Asset Management Framework. Atkins will assist with the delivery of a structured approach to Roads Asset Management Planning, in line with Central Governments financial reporting requirements. It will also be compliant with International Financial Reporting Standards (IFRS) and meet the needs of Whole of Government Accounts (WGA).
- 3.2 This report complements the Road Asset Management Plan (RAMP). It provides information to assist with budget setting for the Roads Infrastructure Asset Groups.
- 3.3 The status of the Asset Group is provided in terms of current condition, investment options, outputs that are deliverable and the standards being achieved
- 3.4 The report considers the following options:
 - No investment;
 - A continuance of current funding levels:
 - The predicted cost of maintaining current condition;
 - An investment for condition improvement (Carriageways Only).
- 3.5 The report adopts the ethos of Long-Term Forecasts as Road Assets deteriorate slowly. The impact of a level of investment cannot be shown by looking at the next couple of years. The report includes 20 year forecasts to enable decisions to be taken with an understanding of their long-term implications.
- 3.6 To reflect continuing budgetary pressures the report contains an assessment of the impact for each option presented. In some instances, however the level of detail of assessment is currently hindered by an absence of data. Commentary on data accuracy is provided in Appendix A.

3.7 Carriageways

3.7.1 The recent condition shows slight deterioration on the previous years. Carriageway long-term condition trend suggests a sustained deterioration.

- 3.7.2 The costs of Planned Maintenance Corrective Treatments, in particular Carriageway Reconstruction, are prohibitive. A Preventative Treatment approach should mitigate the need to invest significantly if interventions are timed appropriately. Short-term under-investment could result in major long-term expenditure necessary to rectify major defects, which could have been addressed earlier.
- 3.7.3 This is borne out by the fact that current investment in the Asset is decreasing. With increased material and labour costs, increased health and safety and design costs as well rising inflation investment on the ground has reduced and this will only become more exacerbated with budgets diminishing adding pressure to keep roads in a safe condition. However, through careful management of resources and the adoption of a Preventative Maintenance Strategy, a slower deterioration of the Asset can be achieved, provided we have sufficient investment.
- 3.7.4 In monetary terms, this is described as the Annualised Depreciation (ADC) of the Asset currently calculated to be £14,787,430 for Carriageways (2019 estimate).
- 3.7.5 The Covid pandemic required the postponement of critical planned maintenance works, particularly within the urban environment. In addition, the severe winter weather conditions did influence the road condition. Additionally, prices for bituminous materials increased by 20-30% in financial year 2022/23. If significant investment is not made within the following years, then we are to expect an accelerated decline in the carriageway asset condition.
- 3.7.6 An analytical assessment of Carriageway Options provides a review of potential treatment strategies, and considering the evidence, it is recommended that East Lothian Council adopt Option 4 Improvement.
- 3.7.7 This Option recommends that the Council increase its investment while maintaining the preventative maintenance strategy in order to best utilise the monies available. Current level of investment is £3.2m and we recommend £8.45m.

3.8 Footways

- 3.8.1 The overall footway condition assessment data is not fully up to date, with only partial information currently available. To address this, a full footway condition assessment is currently ongoing with completion expected towards the end of financial year 2024/25. Going forward, a full condition assessment is to be undertaken over a two-year period in-line with the current safety inspection schedule. In doing so, a greater understanding of the longer-term deterioration will be developed.
- 3.8.2 1.6% of footways are currently regarded to be Condition 4 Major deterioration.
- 3.8.3 Current level of investment is £800k pa and we recommend £1.6m pa. This Option will remove major deterioration (Condition 4) in year one, reduce minor deteriorated footways (Condition 3) and potentially aid in data collection.

3.9 Street Lighting

- 3.9.1 East Lothian Council as the Roads Authority currently maintain 19,669 street lighting columns. There is currently a high growth in the street lighting asset base due to the upturn in housing land development. Approximately 600 assets are currently in the adoption pipeline, with more to follow every year.
- 3.9.2 The number of Street Lighting Columns that have exceeded their expected service life (ESL) is currently 5,750 (some 30% of the network). These columns are painted mild steel construction and the majority are suffering from signs of advanced corrosion. It is likely that structural failures may increase if there is a lack of investment in column replacement.
- 3.9.3 There are no Street Lighting Luminaires, which have exceeded their ESL, 98% of units have been converted to LED however 2% of existing assets still utilise high-energy consumption technology. These will be converted to LED over the next two years subject to sufficient funding being made available.
- 3.9.4 Investment in the Street Lighting stock has decreased over recent years and is well below the annualised depreciation value (ADC), leaving an annual maintenance backlog of column replacement. East Lothian's investment in replacing deteriorated equipment is amongst the lowest within Scottish Local Authorities only allowing 1% of the network to be replaced every year.
- 3.9.5 Energy costs are expected to increase despite mitigation by Road Services and procurement arrangements as well as the installation of LED luminaires. Wholesale energy prices are determined by the marketplace, which is influenced by the mix of power generating options, renewables, energy security, network growth, investment and regulations make the energy landscape difficult to predict. Consequently, a pessimistic bias should be used to forecast costs.
- 3.9.6 The cables supplying the lighting network are a mixture of older Scottish Power (SP) owned cables and the more modern ELC maintained "looped network". SP cables make up 32% of the network and faults on these cables cover large areas and generate high numbers of customer complaints. SP response to multi-unit faults can take up to four weeks before a repair is carried out, longer for single units. There is no cost to the Council in repairing these faults, but public perception of our performance is usually critical.
- 3.9.7 Consideration should be given to replacing Scottish Power's supply cables with our own to improve our service to the public.
- 3.9.8 Street Lighting Column renewal options provides an overview of potential treatments and strategies. It is recommended that East Lothian Council adopt Option 3 for Column renewal of £4m p.a. over three years.

3.10 Traffic Management Systems

3.10.1. The Traffic Management System Assets have increased by some 28% in the last five years, with further increases expected given the level of housing and commercial development within the County.

- 3.10.2. The majority of Traffic Signal equipment is within their expected service life. The ones that have exceeded their expected service life have been inspected and their working condition is considered satisfactory.
- 3.10.3 An assessment of Traffic Management Systems Options provides an overview of potential strategies. It is recommended that East Lothian Council adopt Option 1 Current Level of Investment of £70,000.
- 3.10.4 A programme of replacing existing older incandescent lighting within traffic signals with energy-efficient LED units is underway. Based on the current level of investment 5 sites per year will be upgraded until all are swapped out, which will take approximately seven years. The replacement programme is going to provide significant benefits:
 - Over 75% savings in energy and carbon;
 - Reduced maintenance no need for regular bulb cleaning or replacement;
 - LED units provide improved visibility in all conditions;
 - Extends the life of existing infrastructure by 10 15 years.

3.11 EV Charging Points (Street Furniture)

- 3.11.1 Growth in the EV Charging Point Assets in financial year 2024/25 and beyond will be detailed in a detailed Public Electric Vehicle Infrastructure Strategy & Expansion Plan report expected Q4 financial year 24/25.
- 3.11.2 The majority of assets are covered by warranty and maintenance packages and are in a very good condition.
- 3.11.3 Most chargers will be managed to remain in a safe, operable condition for a minimum of ten years from date of installation, to be compliant with the 100% Grant Funding conditions.

3.12 Structures

- 3.12.1 There has been no significant growth in Road structures assets in the last five years. There are a small number of additional structures coming online; mostly minor culvert structures as part of housing developments with roads submitted for adoption. Two new build underpasses on the B6368 at Howden have been constructed. The structures are privately owned, with design and construction funded by the landowner. Although under an adopted road, these assets are and will remain privately owned and maintained by the landowner. The structures are designed and built to DMRB (adoptable) standards and for imposed loading as specified by ELC. The structures will be added to ELC's General Inspection programme and noted on our database
- 3.12.2 The service life of structure assets is generally significantly longer than other road assets and may only require cyclic, damage corrections or localised interventions. Complete asset replacement is rare, typically one bridge a year.
- 3.12.3 The Annualised Depreciation of the structures assets is calculated to be £759,924 (2020 estimate).

3.12.4 An assessment of Structures Options provides an overview of potential strategies. It is recommended that East Lothian Council adopt Option 1-Current Level of Investment £250,000 per annum.

4 POLICY IMPLICATIONS

4.1 The report supports East Lothian Council Climate Change Strategy, reduce emissions and create an increasingly sustainable East Lothian.

5 EQUALITIES IMPACT ASSESSMENT

5.1 This report is not applicable to the well-being of equalities groups and an Equalities Impact Assessment is not required.

6 RESOURCE IMPLICATIONS

- 6.2 Financial The construction materials market is currently volatile due to several factors. Construction material prices continue to rise within the past year. The ramifications of Brexit, the fall-out from Covid-19 and the ongoing war in Ukraine have all contributed to a substantial increase in construction material prices. The substantial cost increases experienced mean that we are unable to carry out as much work for the same money. Most of the material spend is on bituminous materials for carriageway and footway resurfacing / repair works, this alone has seen an increase of between 20% and 30% during the last two years.
- 6.2 Personnel None
- 6.3 Other None

7 BACKGROUND PAPERS

7.1 None

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DATE	December 2024



ROADS INFRASTRUCTURE

Appendix A

Asset Status and Options Report 2024

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1.0 CARRIAGEWAY STATUS

Road Length

A Class Roads	121.7 km
B Class Roads	168.4 km
C Class Roads	223.8 km
Unclassified Roads	633.1 km
Total	1147.0 km

(as of 2024)

Road Condition

The condition of the Roads is measured by the Scottish Road Maintenance Condition Survey (SRMCS) that assesses parameters such as, ride quality, rut depth, intensity of cracking, texture depth and edge condition. This provides an indication of the residual life of the road structure.

The Road Condition Index (RCI) is a measure of the percentage of our roads that require attention.

- Green an RCI score <40 where the carriageway is generally in a good state of repair;
- Amber 1 an RCI score ≥40 and <80 where some deterioration is apparent which should be investigated to determine the optimum time for planned maintenance treatment;
- Amber 2 an RCI score ≥80 and <100 where some deterioration is apparent which should be investigated to determine the optimum time for planned maintenance treatment:
- Red an RCI score ≥ 100 where the carriageway is in poor overall condition which is likely to require planned maintenance soon (ie within a year or so).

The RCI graph (Figure 1.2) shows the trend over the last years.

Historically investments in Roads across the UK has been low, which has an impact on the overall condition of the Road Network.

Road Valuation

The Depreciation Values for the carriageway of all roads can be seen in Table 1.1 (2024 estimate). The annualised depreciation of £14.831m represents the average amount by which the asset will depreciate in one year if there is no investment in renewal of the asset. This equates to an accumulated depreciation cost of £148,321m



Figure 1.1

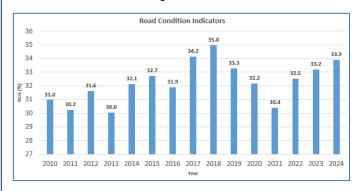


Figure 1.2

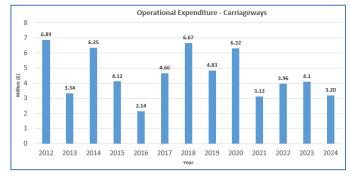


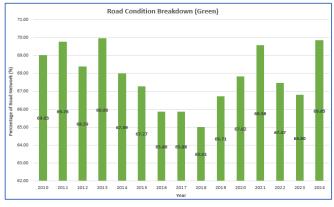
Figure 1.3

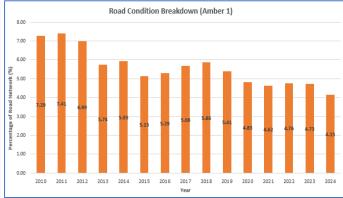
	Annualised Depreciation	Accumulated Depreciation
Road	Cost	Cost
Classification	£,000	£,000
A Road (Urban)	1,471.52	15,018.29
A Road (Rural)	612.483	6,521.11
B Road (Urban)	1,914.53	21,590.14
B Road (Rural)	474.561	4,793.54
C Road (Urban)	2,057.77	22,902.98
C Road (Rural)	210.851	2,134.23
U Road (Urban)	1,574.56	17,458.75
U Road (Rural)	6,471.16	57,890.96
	14,787.43	148,310.00

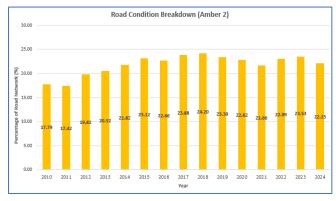
Table 1.1 - carriageway depreciation

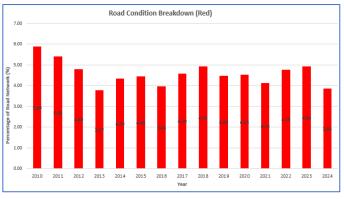
1.1 CARRIAGEWAY CONDITION BREAKDOWN

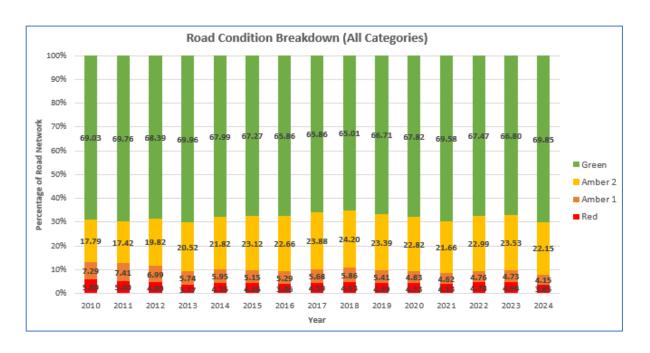
The graphs below show the carriageway condition for the last years on all different categories as described previously.











1.2 CARRIAGEWAY INVESTMENT OPTIONS

1 - NO INVESTMENT

Zero investment would lead to severe deterioration, with 56.22% of the carriageway requiring attention after 20-years. The volume of reactive temporary repairs would rise rapidly, year on year, as would public liability claims. Customer satisfaction levels can be expected to decrease significantly.

2 - CURRENT LEVEL OF INVESTMENT

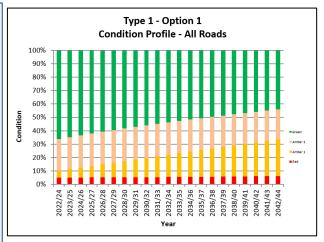
An annual capital investment of £3.2m would lead to sustained deterioration, with 45.81% of the carriageway requiring attention after 20-years. The volume of reactive temporary repairs would steadily rise, year on year, as would public liability claims. Customer satisfaction levels can be expected to steadily decrease.

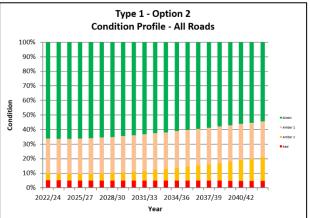
3 - STEADY STATE

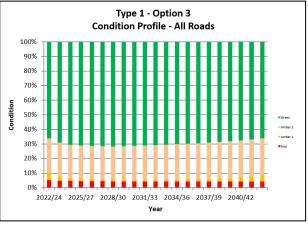
An annual capital investment of £6.8m would maintain existing Road Condition of 33.9%. The volume of reactive temporary repairs, public liability claims and levels of customer satisfaction can also be expected to be maintained. The road will still be vulnerable to significant deterioration in the event of a severe winter.

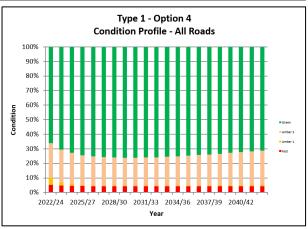
4 - IMPROVEMENT

An annual capital investment of £8.45m would lead to an improvement, with only 25.5% of the carriageway requiring attention after 9 years. The volume of reactive temporary repairs would significantly reduce, as would public liability claims. Customer satisfaction levels would improve significantly. However, a slow deterioration would start after 9 years if the initial level of investment was adopted, with 30.2% of the roads requiring attention after 20-years.









1.3 CARRIAGEWAY KEY ASSET ISSUES

Structural Vulnerability

The survey indicates that rural public roads in East Lothian are of a poor condition and require immediate investigation and possible treatment.

Additionally, severe winter weather conditions (impairment) would significantly accelerate damage to the carriageway network.

Level of Investment

The level of investment on public roads in East Lothian has not been sufficient to limit the decline in the overall condition of the network. No significant improvement of its condition has been accomplished since 2007. Appropriate investment can achieve a well-managed road network.

COVID-19 Effect

During the pandemic and following Government Guidelines for social distancing the focus and priority was to carry out emergency repairs and other essential urgent work, which meant the majority of our planned works for maintenance was put on hold. This, along with the severe weather conditions throughout the winter, will have a critical effect on the road condition. If a significant investment is not made the following years then we are to expect an extreme decline in the asset condition.

2.0 FOOTWAY STATUS

Total Footway Length = 674 km

The condition of the footway asset is obtained using the East Lothian Footway Condition Assessment Process. This is an aging asset which will have longer-term investment requirement (Figure 2.1).

The condition referred to is the 2023-24 partial assessment (Figure 2.2).

The level of condition is considered good with only 1.6% of footways with major deterioration C4 – Figure 2.3).

Condition Band Descriptions

Condition 1 – As New

Condition 2 – Aesthetically Impaired

Condition 3 – Minor Deterioration

Condition 4 – Major Deterioration



Figure 2.1

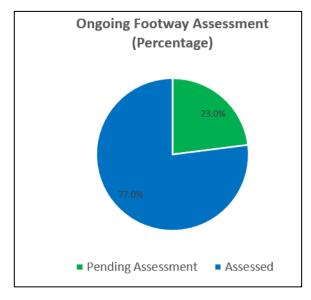


Figure 2.2

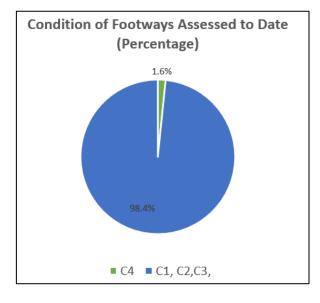


Figure 2.3

2.1 FOOTWAY KEY ASSET ISSUES

Investment

The need for improvements in footways and cycleways will be necessary to enable the success of Sustainable Transport Strategies. An important aspect is to ensure the condition of the footways is acceptable and in rural areas there is a need to investigate joining up isolated sections of footway which will encourage more use of the footways and other active travel routes.

Current annual investment is £800k however this would need to be increased to £1.6m to remove major deterioration.

Data Reliability & Priorities

A full footway condition assessment is currently ongoing with completion expected late in financial year 2024/25. Going forward, a full condition assessment is to be undertaken over a two-year period in-line with the current safety inspection schedule. In doing so, a greater understanding of the longer-term deterioration will be developed.

Active Travel Network

An 'Active Travel Network' is currently being developed through the construction of new paths, using mostly external funding such as Sustrans and Transport Scotland grants. This network will have to be monitored and maintained along with the footways.

3.0 STREET LIGHTING STATUS

Lighting Assets

Lighting Columns 19,669

Cable Length 431 km

Condition

30% of our lighting columns have exceeded their service life. Non galvanised steel columns make up the majority of this category and maintenance budgets are concentrated on replacing these units. Columns of this type on mains roads are typically 8 to 10m in height and are considered a higher risk. They are inspected annually for signs of corrosion and replaced accordingly.

A structural testing programme is ongoing to identify columns in poor condition for replacement. An electrical test and inspection programme is also in place, which includes cable and cabinet test details and cable schematic diagrams. Cyclic inspections are carried out over a 6- to 8-year cycle.

Figure 3.1 highlights a typical deterioration at the base of a lighting column.

98% of the network has been converted to LED. A programme to replace or upgrade the remaining 2% of non-LED lanterns is ongoing.

The cable network split between Scottish Power and ELC is shown in figure 3.3. Scottish Power faults generate a high number of customer complaints due to the length of time that is taken for repair.



Figure 3.1

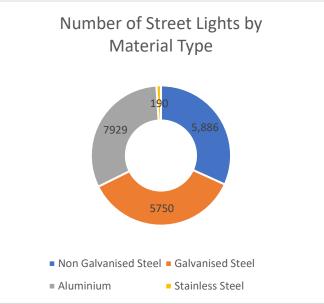


FIGURE 3.2

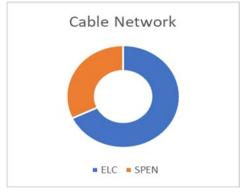


FIGURE 3.3

3.1 COLUMN OPTIONS

COLUMN OPTION 1 –

NO INVESTMENT

Zero investment would lead to further deterioration of the network, 32% of our columns have exceeded their design life, many by over ten years. The volume of reactive temporary repairs would rise rapidly, year on year, as would public liability claims. The risk of column collapses will rise, and customer satisfaction levels can be expected to increase significantly.

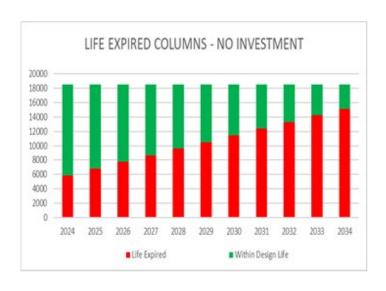
COLUMN OPTION 2 -

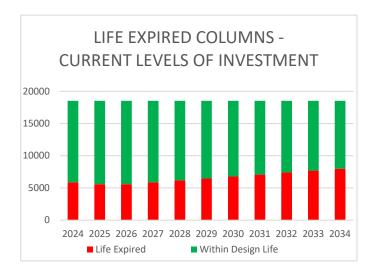
CURRENT LEVEL OF INVESTMENT - £500K P.A.

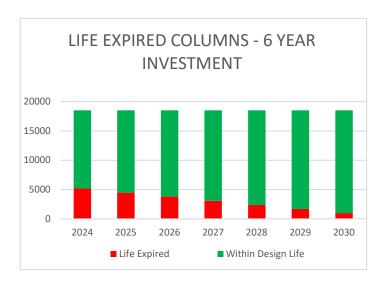
Continuing current investment means that the backlog of columns which are now beyond their design lives can only be addressed at a rate of 3% per annum. This will lead to a situation where steel columns may still be in place at an age of 60/70 years. In 2025 galvanised steel columns will start reaching the end of their design life which will increase the number of columns "at risk". The risk of structural failure at these age profiles is significant. An increase in reactive repairs is expected and structural tests are now conducted on an annual basis to identify units at risk of collapse.

COLUMN OPTION 3 – REPLACEMENT OF BACKLOG - £4M P.A. 3 YEAR PROGRAMME

A three year programme to replace all obsolete un-galvanised steel columns. This will significantly reduce the risk of structural column failure and bring the column age profile up to acceptable levels for the next 10 years







3.2 STREET LIGHTING KEY ASSET ISSUES

Investment

The lighting network is ageing, and current investment is not commensurate with the rate of deterioration. Consequences of not keeping pace with this dilapidation is an increased level of faults leading to higher maintenance costs and a larger number of customer complaints. In some cases, columns will structurally fail and can strike vehicles and pedestrians. We experience a limited number of such events each year but that will increase with further deterioration of non-galvanised units.

The Scottish Power cable network that supplies 30% of our network is also ageing and susceptible to failure. We report around 100 faults to SPEN each year, each fault can take between four to five weeks to repair which leads to high degrees of customer dis-satisfaction. Increased investment would enable us to install our own cable network, replacing the ageing SPEN cables, and reduce customer complaints.



4.0 TRAFFIC MANAGEMENT STATUS

Traffic Signals

Junctions - 46

Pedestrian Crossings – 55

Traffic Signals Condition

The condition of Traffic Signals assets is determined by periodic electrical and structural inspections carried out on an annual basis.

The decision on whether to replace assets that have exceeded the ESL is only made after annual inspection results are reviewed. Some assets are therefore not replaced at the end of their ESL, resulting in a misleading "maintenance backlog".

A number of our units are exceeding their expected service life however, they have all passed their annual inspection and their operation is deemed satisfactory without any issues.

4.1 TRAFFIC MANAGEMENT STATUS KEY ASSET ISSUES

Investment

The assets installed continue to increase to support new infrastructure and increase of demands in newly developed areas. The adopted assets increased by more than 16% in the last 5 years. Further increase is expected given the level of housing development within the County.

Maintenance

As part of our maintenance programme regular inspections are undertaken and an annual report providing the condition of all components of the asset is rated and the outcome of which determines the programme of replacement/ upgrade works.

Reactive repairs ensure all assets are in full working condition and customer satisfaction levels can be expected to be maintained.

5.0 PUBLIC EV CHARGER STATUS

Quantity & Type

50-200kW Journey Chargers:237-22kW Destination Chargers:997-22kW On-Street Chargers:106Total chargers228

Age

Age (years)	6	5	4	3	2	1	0	Total
Journey	0	10	8	4	1	0	0	23
Destination	2	21	32	6	7	20	11	99
On-Street	0	0	0	7	32	57	10	106
Total					•			228

All chargers are constructed to remain in a safe, operable condition for a minimum of 10 years.

Condition Band Descriptions

Condition 1 – As New: All

Condition 2 – Aesthetically Impaired: None Condition 3 – Minor Deterioration: None Condition 4 – Major Deterioration: None

Valuation & Investment

No RAMP methodology exists for calculating EVCP Gross Replacement Cost or Depreciation Values. However, it is expected that our simple, reliable Destination & On-Street chargers (the bulk of our assets) will remain attractive and economical to maintain after the initial 10 year period.

It is expected there will be a low demand for ELC to maintain the existing Journey chargers at the end of their expected useful service lives as a significant volume of Journey Chargers from commercial Charge Point Operators are deployed or visible in the Planning Pipeline. No additional ELC owned 50kW DC chargers are therefore planned.

ELC's public EVCP strategy and expansion plan has been drafted and will be circulated via Members Library Report.



Figure 5.1 - 50kW Journey Charger



Figure 5.2 - 7-22kW Destination Charger



Figure 5.3 - 7-22kW On-Street Chargers

6.0 STRUCTURES STATUS

Asset Group: Road Structures

Statistics

East Lothian Council Road Structures Inventory by Road Type							
Characterist Towns	Total						
Structure Type	No.	Α	В	С	Uncl		
Bridge	163	43	41	48	31		
Culvert	229	31	39	80	79		
Subway	0	0	0	0	0		
Footbridges	13	1	0	2	10		
Retaining Walls	0	0	0	0	0		
Total	405	75	80	130	120		

The Asset

Commentary

- Bridge inventory is stored in the WDM Structures Asset Management System. An audit of the information is ongoing in comparison with the original database. The information in the original database had a high level of confidence so if the transfer of data has gone correctly this level of confidence will remain.
- The level of growth in structures assets has been minimal in the last five years: a small number of culverts are included in RCC applications for a limited number of housing developments.
- Two new build underpasses on the B6368 at Howden have been constructed. These assets are
 privately owned and maintained by the landowner, but are included in ELC's Inspection
 Programme.
- This growth rate is predicted to remain the same in the next five years.

Customer Expectations

Road Users expect to be able to travel the road network safely and efficiently. The maintenance and renewal of road structures is essential to ensure this expectation is met

nspections

Inspection Statistics	No.		
Number of bridges where principal inspections are untaken			
Number of principal inspections scheduled to be undertaken			
Number of principal inspections undertaken on time	0		
The frequency of principal inspections where undertaken (in years)	0		
Number of general inspections scheduled to be undertaken			
Number of general inspections undertaken on time			
The frequency of general inspections (in years)	2		

- Structures are fully inspected through General Inspections in compliance with Section C.5. clauses of Well-managed Road Infrastructure – A Code of Practice.
- General Inspections are carried out by ELC's full time Structures Inspector.
- Principal Inspections are undertaken when the need has been identified by a General Inspection.

	Assessment Statist	irs	No.	•	J	nat failed the
ion	Number of council	owned / maintained bridges that assessment (prior to restriction?				were assessed as Provisionally Sub-
ondit	Number of privately	y owned bridges within council's European standard assessment		standard accordance v	Structures in with DMRB CS 470	
ra C		owned / maintained bridges subj l inspection regimes	ect to 8		and therefor	e are subject to a
Structural Condition				•	Monitoring R Strengthening undertaken Budget alloca	g measures are subject to Capita
S	Weight Restrictions	\$	No.	1		
weigiit striction	Number of council	owned / maintained weight restraceptance weight restriction)				
Weignt Restrictions	Number of council of bridges	owned / maintained height / wid	th restricted 1			
	Ref	Description			2019/20 Result	Comments
	PI300 / (31.1.01)	% of Principal Inspections carr	ied out on time		0.00%	See above
Performance Indicators	PI301 / (31.1.02)	% of General Inspections carri	ed out on time		70%	ELC had a change in personnel and consequently didn't meet our GI target for the year.
<u>=</u>	PI302 / (32.1.01)	Bridge Stock Condition Indicat	or – average BSCl _{av}		81.13	
Se	PI303 / (32.1.02)	Bridge Stock Condition Indicat	or – critical BSCI _{crit}		81.66	
rman	PI306 / (36.1.01)	Annual budget allocated as a % of cost of identified work (from AMP)				
arfo	PI307 / (36.2.01)	% of allocated budget spent p	er annum			
ď	Gross Replacem	ent Cost	£137,945,681			
	Depreciated Rep	placement Cost	£132,195,131			
	Annualised Depr	reciation Charge	£759.924			
Key Issues	structures a	Structures Asset Managem asset to be managed in acc a audit trail to support all d m to get the most out of th	ordance with the Elecisions. The Stru	East Lo	othian Council s	trategy. The SMS
Current Strategies	road struct are availabl on repairin	the maintenance strategy ures are maintained in a sa le for use. The majority of g the worst defects as iden of the two-yearly General	afe condition and the budget is spendified by the	t a w	as £760K which verage amount	by which the asset one year if there is

Prioritisation of Overall Funding Needs

Using the SCOTS / CSS Wales Structures Funding Need Assessment Spreadsheet the following overall needs have been identified:

Strengthening

A number of Structures have been identified for Strengthening / Replacement.

This work will be undertaken subject to the provision of Capital Budget.

Maintenance Needs

For the purposes of evaluating an overall prioritised funding need the SCOTS/CSS Wales funding need assessment spreadsheet for structures combines the BCi_{crit} values with network criticality. This method is designed to ensure that the priority for funding takes into account the condition of the structure and its relative importance in terms of the network. Network criticality is used to ensure that roads of particular importance locally can be ascribed a suitable level of criticality regardless of their classification. Prioritised overall needs are:

MAINTENANCE NEEDS	Timescale not specified since this will depend on availability of funding				
	Priority 1	Priority 2	Priority 3	Priority 4	
Road Bridges	£0	£112,620	£157,567	£265,929	£167,525
Footbridges	£0	£0	£2,930	£8,811	£17,572
Unusual Structures	£0	£0	£0	£0	£0
Retaining Walls	£0	£0	£0	£0	£0
Height, Sign and Signal gantries	£0	£0	£0	£0	£0
Culverts and Subways	£0	£9,630	£9,779	£12,251	£5,989
TOTALS	£0	£122,250	£170,296	£286,991	£191,086

6.1 STRUCTURES OPTIONS

OPTION 1 – CURRENT LEVEL OF INVESTMENT

The bridge stock has displayed little change in terms of the Condition Performance Indicators. It is considered that as a consequence of the planned maintenance works to be undertaken on these structures as part of the Road Structure capital programme, together with sustaining the current level of revenue funding, the overall condition performance indicators will increase. The structure stock would then be classed as in 'Very Good Condition'. If funding is then continued at its current level it is estimated that the bridge stock will be maintained in a 'Very Good' condition at "Steady State" as measured by the Condition Performance Indicators.

OPTION 2: DECREASED LEVELS OF INVESTMENT

If a steady state maintenance regime is not adopted, or the current level of funding was reduced, the overall condition of the structure stock will deteriorate, resulting in decreasing Condition Performance Indicator scores and a decrease in DRC. The rate of deterioration will depend on the reduction in funding. The implications of this is the deterioration of the bridge stock from 'Good' to 'Fair' condition, and the issues as highlighted in the following table:

Score	Average Stock Condition	Critical Stock Condition	Additional Comments
Very Good 90 ≤ 100	The structure stock is in a very good condition. Very few structures may be in a moderate to severe condition.	A few critical load bearing elements may be in a moderate to severe condition. Represents very low risk to public safety.	As Example ELC has a mature stock continuing with the same level of funding is likely to sustain a high condition score and an effective preventative maintenance regime.
Good 80 < 90	Structure stock is in a good condition. Some structures are in a poor condition but are being managed appropriately.	Some critical load bearing elements are in a severe condition. Some structures would represent a moderate risk to public safety if mitigation measures were not in place.	There is the potential for rapid decrease in condition if sufficient maintenance funding is not provided. Minor to Moderate backlog of maintenance work.
Fair 65 < 80	Structure stock is in a fair condition. A number of structures may be in a severe condition.	A number of critical load bearing elements may be in a severe condition. Some structures may represent a significant risk to public safety unless mitigation measures are in place.	Historical maintenance work under funded and structures not managed in accordance with Asset Management. Moderate to large backlog of maintenance work, essential work dominates spending.