Kyogle Council



Bridges Asset Management Plan 2018



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Table of Contents

1	FXF	CUTIVE SUMMARY	4
_		xt	
		does it Cost?	
		we will do	
		we cannot do	
		ging the Risks	
		ext Steps	
2		RODUCTION	
_	2.1	Background	
	2.2	Goals and Objectives of Asset Management	
	2.3	Council Values and Community Plan Priorities	
3		/ELS OF SERVICE	
_	3.1	Customer Research and Expectations	
	3.2	Legislative Requirements	
	3.3	Current Technical Service Levels	
	3.4	Current Community Service Levels	
4		FURE DEMAND	
	4.1	Demand Forecast	
	4.2	Changes in Technology	
	4.3	Demand Management Plan	
5	LIFE	ECYCLE MANAGEMENT PLAN	
	5.1	Background Data	11
	5.1.3	.1 Physical parameters	11
	5.1.2		
	5.1.3	.3 Written Down Value and Remaining Useful Life	12
	5.1.4		
	5.1.5	.5 Asset condition inspections	20
	5.1.6	.6 Asset valuations	20
	5.1.7	.7 Asset hierarchy	21
	5.2	Routine Maintenance Plan	21
	5.3	Renewal/Replacement Plan	22
	5.3.2	.1 Renewal Plan	22
	5.3.2	.2 Summary of projected renewal expenditure	23
	5.4	Creation/Acquisition/Upgrade Plan	24
	5.5	Disposal Plan	24
6	ASSI	SET MANAGEMENT PRACTICES	25
	6.1	Accounting/Financial Systems	25
	6.1.3	.1 Accounting and financial systems	25

	6.1.2	Accountabilities for financial systems	25
	6.1.3	Accounting standards and regulations	25
	6.1.4	Required changes to asset accounting systems arising from this AM Plan	25
	6.2 As	set Management Systems	25
	6.2.1	Asset management system and registers	25
	6.2.2	Linkage from asset management to financial system	25
	6.2.3	Accountabilities for asset management system and data	25
	6.3 Inf	formation Flow Requirements and Processes	25
7	PLAN II	MPROVEMENT AND MONITORING	27
	7.1 Pe	rformance Measures	27
	7.2 Im	provement Plan	27
	7.3 M	onitoring and Review Procedures	27
4	PPENDICES	5	28
	Appendix	A – Relevant community goals and objectives	28
	Appendix	B – Legislative Requirements	30
	Appendix	C – Projected capital works program	33
	Appendix	D – Abbreviations	35
	Appendix	E – Glossary	36

1 EXECUTIVE SUMMARY

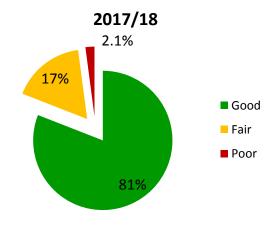
Context

Kyogle Council provides bridge infrastructure to facilitate access and amenity within the community. The funding of transport is the most significant infrastructure challenge for council, and long term planning is essential to ensure that any loss or reduction in services and associated risks are managed.

Bridge assets are defined of comprising the following elements:

- All Bridges
 - o Piles / Piers
 - o Headstocks
 - Abutments
 - Girders
 - Decks
 - Handrails / Kerbs
- Bridge Sized Culverts (min 6m wide headwall)

These infrastructure assets have a CRC of \$127M, WDV of \$95M and condition ratings (based on %CRC) as shown in the figure below.



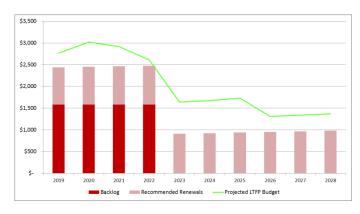
What does it Cost?

Council currently has a \$6.3M bridge assets backlog. Council plans to eliminate this backlog by the beginning of FY23.

In addition to the backlog costs, the projected capital renewal cost to maintain all bridge assets at their current condition is \$0.86M per year.

This equates to an average projected spend over the next 10 years of \$1.55M per year.

Council's estimated available funding for bridge assets for this period is \$2.04M per year. This means that Council's current budget is more than adequate to cover the cost of bridge asset renewals, provide for planned upgrades and address the backlog.



What we will do

Council plans to provide bridge asset services for the following:

- Operation, maintenance, renewal and upgrade assets to meet service levels set by council in annual budgets
- Reduce the road assets backlog to required levels by 2023

What we cannot do

While Council does have funding for the bridge asset infrastructure backlog and yearly bridge asset renewals, not all impaired assets can be renewed at once. Over the next 10 years, Council will work to rectifying all assets in condition 4 or 5.

Managing the Risks

There are risks associated with providing the service and not being able to complete all identified activities and projects. We have identified major risks as:

- Care must be taken in addressing the backlog to ensure other assets in good and fair condition don't deteriorate and add to the backlog
- Accidents and liability claims will increase if bridge standards decrease
- Increasing number of bridges with load limits

We will endeavour to manage these risks by prioritising works within the funding available, monitoring conditions and performance against set service levels.

The Next Steps

The actions resulting from this asset management plan are:

- Maintain the current assets in a safe condition
- Continue to assess condition
- Continue to monitor the delivery of the identified services levels.

28/05/2019 Page 4 of 40

2 INTRODUCTION

2.1 Background

This asset management plan is to demonstrate responsive management of assets (and services provided from assets), compliance with regulatory requirements, and to communicate funding needed to provide the required levels of service.

The asset management plan is to be read with Council's Asset Management Policy, Asset Management Strategy, Core Infrastructure Risk Management Plan and the following associated planning documents:

- Kyogle Council Operational Plan 2018/19 and Delivery Plan 2018/2020
- Kyogle Council Long Term Financial Plan
- Kyogle Council Annual Report
- Kyogle Council Financial Statements for the year ended 30 June 2018
- Kyogle Council Road Network Management System
- RTA Routine Maintenance Council Contract
- Section 94 Contributions Plan Urban and Rural Roads 2001
- Section 94 Development Contributions Plan 2008 Residential, Rural residential and Heavy Haulage Development
- Pedestrian Access and Mobility Plan
- Various work method statements and procedures

Council maintains a road network of 1,312km made up of State Roads, Regional Roads and Local Roads. The State Road network is maintained by Council on behalf of the Roads and Maritime Services (Formerly the Roads and Traffic Authority), and the Regional and Local Road networks are owned and maintained by Council. The road network contains an inventory of 338 bridges and bridge sized culverts as follows;

Table 2-1: Council Bridge Inventory as at June 2018

Road Class	Timber Bridges (No.)	Concrete Bridges (No.)	ADF Bridges (No.)	Bridge Sized Culverts (No.)	Sub-Totals
State Highways	0	27	0	0	27
Regional Roads	3	16	1	5	26
Local Roads	147	114	7	18	287
Sub-Totals	150	157	8	23	338

Table 2-2: Assets covered by this Plan

Asset Subcategory	Current Replacement Cost	Written Down Value	Backlog as at EOFY18 *
Regional Concrete Bridges and Large Culverts	\$16.95M	\$15.27M	\$0 (0%)
Regional Timber Bridges	\$0.94M	\$0.36M	\$0 (0%)
Local Concrete Bridges and Large Culverts	\$74.11M	\$62.96M	\$1.34M (8%)
Local Timber Bridges	\$34.65M	\$16.08M	\$4.97M (31%)
TOTAL	\$126.65M	\$94.62M	\$6.31M (7%)

Note: State Highways Bridges are not Council assets and are therefore not covered by this plan.

28/05/2019 Page 5 of 40

^{*}Backlog figure represents Accumulated Depreciation of Assets in condition 4 or 5. Backlog percentage is Accumulated Depreciation of Assets in condition 4 and 5 divided by the Written Down Value of that subcategory.

2.2 Goals and Objectives of Asset Management

The Council exists to provide services to its community. Some of these services are provided by infrastructure assets. Council has acquired infrastructure assets by 'purchase', by contract, construction by council staff and by donation of assets constructed by developers and others to meet increased levels of service.

Council's goal in managing infrastructure assets is to meet the required level of service in the most cost effective manner for present and future consumers. The key elements of infrastructure asset management are:

- Taking a life cycle approach,
- Developing cost-effective management strategies for the long term,
- Providing a defined level of service and monitoring performance,
- Understanding and meeting the demands of growth through demand management and infrastructure investment,
- Managing risks associated with asset failures,
- Sustainable use of physical resources,
- Continuous improvement in asset management practices.

The goal of this asset management plan is to:

- Document the services/service levels to be provided and the costs of providing the service,
- Communicate the consequences for service levels and risk, where desired funding is not available, and
- Provide information to assist decision makers in trading off service levels, costs and risks to provide services in a financially sustainable manner.

2.3 **Council Values and Community Plan Priorities**

This asset management plan is prepared under the direction of Council's vision, mission, goals and objectives.

Community vision is:

Working together to balance Environment, Lifestyle, and Opportunity

Our mission is:

To meet the challenges of our unique and diverse region

Our values are:

Respect and respond to community needs

Improve the quality of our services

Be open and accessible

Act with honesty and integrity

Value people's contribution

Support the culture of teamwork, cooperation and safety

Appendix A – Relevant community goals and objectives shows how these goals and objectives are addressed in this asset management plan.

28/05/2019 Page 6 of 40

3 LEVELS OF SERVICE

3.1 Customer Research and Expectations

Council has carried out research on customer expectations during the process of developing the Council Community Strategic Plan and the Long Term Financial Plan. The integration of the Asset Management Plans with the Community Strategic Plan and the Long Term Financial Plan will continue to be developed in future revisions of the asset management plan.

3.2 **Legislative Requirements**

Council has to meet many legislative requirements including Australian and State legislation and State regulations. Relevant legislation is shown in Appendix B – Legislative Requirements.

Council has defined service levels in two terms.

Community Levels of Service relate to the service outcomes that the community wants in terms of safety, quality, quantity, reliability, responsiveness, cost effectiveness and legislative compliance.

Community levels of service measures used in the asset management plan are:

• Quality How good is the service?

Function Does it meet users' needs?

• Capacity/Utilisation Does the service have sufficient capacity or is it used?

Technical Levels of Service - Supporting the community service levels are operational or technical measures of performance. These technical measures relate to the allocation of resources to service activities that the council undertakes to best achieve the desired community outcomes.

Technical service measures are linked to annual budgets covering:

- Operations the regular activities to provide services such as opening hours, cleansing frequency, mowing frequency, etc.
- Maintenance the activities necessary to retain an assets as near as practicable to its original condition (e.g. road patching, unsealed road grading, building and structure repairs),
- Renewal the activities that return the service capability of an asset up to that which it had
 originally (e.g. frequency and cost of road resurfacing and pavement reconstruction, pipeline
 replacement and building component replacement),
- Upgrade the activities to provide an higher level of service (e.g. widening a road, sealing an
 unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously
 (e.g. a new library).

28/05/2019 Page 7 of 40

3.3 **Current Technical Service Levels**

The following service levels for the capital renewal of transport assets are taken from the Kyogle Council Long Term Financial Plan 2015/2034 adopted by Council in February 2015 and as reviewed annually as part of Council's Operation Plan and Delivery Program development. These capital renewal frequencies represent the service levels adopted by Council based on the community's willingness to pay and the funding levels available in the long term. It is critical that the asset accounting is aligned with these service levels where practical.

Table 3-1: Current Technical Service Levels

Asset Type and Group	Service Level from LTFP
Bridges Capital	\$1.4M indexed per year over 20 years, to eliminate timber bridges in
	30 years
Bridges Maintenance	stepped reduction in maintenance costs down to \$204k indexed per
	year after 20 years recognising the reduction in timber bridges
Regional Capital Bridges	Replacement of 3 remaining timber structures,

3.4 **Current Community Service Levels**

Council's current service levels are detailed in Table 3.2 and 3.3.

Table 3-2: Current Community Service Levels

COMMUNITY LEVELS OF SERVICE				
Theme	Community Expectation	Measure	Current Service Level Response	Acceptable Level of Service Response
Quality	Well maintained	Customer requests	161 customer requests received Currently 6% of the	Customer requests received should not increase
bridges % of network that bridges is unsatisfactory unsatisfactory	bridge network is in an unsatisfactory condition	<2% of the bridge network in an unsatisfactory condition		
Function	Access is available at all times Fit for their use	Customer surveys % of network that is inaccessible	19% unsatisfied customers (down from 40%^) and 11% think the bridge service levels are getting worse(down from 26%^)*	10% unsatisfied customers and 0% think the bridge service levels are getting worse Community access
			Some bridges are impaired / have been closed	should not be significantly impaired
Capacity/Utilisation	Bridges are appropriately sized for traffic loads and volumes	% of bridges that are load limited	Currently 28 bridges are load limited	Load limits on bridges do not impact the community

[^] Based on community survey from 2013

28/05/2019 Page 8 of 40

^{*} Based on community survey from April 2018

4 FUTURE DEMAND

4.1 **Demand Forecast**

Factors affecting demand include population change, changes in demographics, seasonal factors, vehicle ownership, consumer preferences and expectations, economic factors, agricultural practices, environmental awareness, etc.

Demand factor trends and impacts on service delivery are summarised in Table 4.1.

Table 4-1: Demand Factors, Projections and Impact on Services

Demand factor	Present position	Projection	Impact on services
Population	Fluctuating population in recent years	Only minor population increase forecast	Minor increase in demand for services provided utilising transport network
Bridge Construction Costs	Current costs	Costs anticipated to increase at around CPI	A shortage of skilled labour, increasing material costs, or availability of quality bridge building materials could impact on the future management of bridges
Land use activities	Has resulted in road use by heavier vehicles	Anticipated to continue	Additional heavy vehicles will add further to the cost of providing, operating, maintaining and renewing bridges. Demand for wider and higher standard of bridges. Load limited structures impede economic activity
Restricted Revenue	The cost to construct, maintain and renew infrastructure is increasing at a rate greater than council's revenue	Anticipated to continue, but current rate pegging limits and FAGs increased in recent years	Increasingly difficult to maintaining the current level of service
Climate Change	Higher frequency of extreme weather events	Higher temperatures, more intense storms, increased rainfall/flooding	Major damage to bridges. Availability of disaster relief funding to assist council will be important. More frequent interruption to community access

28/05/2019 Page 9 of 40

4.2 Changes in Technology

Technology changes are forecast to have minimal impact on the delivery of services covered by this plan. See Table 4.2.

Table 4-2: Changes in Technology and Forecast effect on Service Delivery

Technology Change	Effect on Service Delivery
Change in bridge construction methods and the materials used	May reducing the cost of construction or maintenance of bridge asset, may increase the life of components or reduce the susceptibility to damage.
Drones footage / asset capturing	Better knowledge of bridge network and more rapid collection of data will allow improved asset maintenance and renewal planning.

4.3 **Demand Management Plan**

Demand for new services will be managed through a combination of managing existing assets, upgrading of existing assets and providing new assets to meet demand and demand management. Demand management practices include non-asset solutions, insuring against risks and managing failures.

Opportunities identified to date for demand management include:

- Monitor community expectations and communicate service levels
- Continue to seek grant funding for projects
- Continue to analyse the cost of providing service and the capacity to fund at the current level of service
- Monitor economic activity and heavy vehicle activities to help prioritise renewals to areas of greatest need

28/05/2019 Page 10 of 40

5 LIFECYCLE MANAGEMENT PLAN

The lifecycle management plan details how Council plans to manage and operate the assets at the agreed levels of service (defined in Section 3) while optimising life cycle costs.

Figure 5-1shows the impacts of different asset management practices and the financial benefits that come from keeping assets in optimal condition.

Good asset management

= Better condition
= Less consumption
= Lower depreciation expense

Poor asset management
= Worse condition
= More consumption
= Higher depreciation expense

Straight line
= Same result irrespective of actual performance

Figure 5-1: Impact of good and bad asset management practices

Remaining Useful Life / Time

Source: CPA Valuation and depreciation guide2013

5.1 Background Data

5.1.1 Physical parameters

The assets covered by this asset management plan are shown previously, in Table 2.2.

The age profile of the assets include in this AM Plan is shown in Figure 5-2.

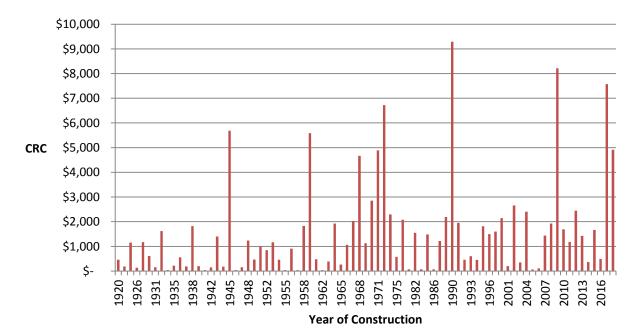


Figure 5-2: Bridge Assets Age Profile (\$'000s)

28/05/2019 Page 11 of 40

5.1.2 **Useful Lives and Unit Rates**

The useful lives for bridge assets are set out in Table 5-1 below.

Table 5-1: Bridge Assets Useful lives and Unit Rates

	Useful Life	2015 Ur	nit Rate
Replacement Asset Type*	(yrs)	\$	unit
Timber Bridge	100	-	-
Causeway	100	240	m2
ADF Bridge	100	2,300	m2
Precast Concrete Bridge with steel girders	100	3,140	m2
Concrete Bridge	171	4,050	m2
Major Culvert	171	2,793	M2

^{*} Replacement cost unit rates are based on the proposed replacement method for the bridge. E.g. for a Timber Bridge, if it is to be replaced by a major culvert, then the bridge adopts the 'Major Culvert' unit rates.

5.1.3 Written Down Value and Remaining Useful Life

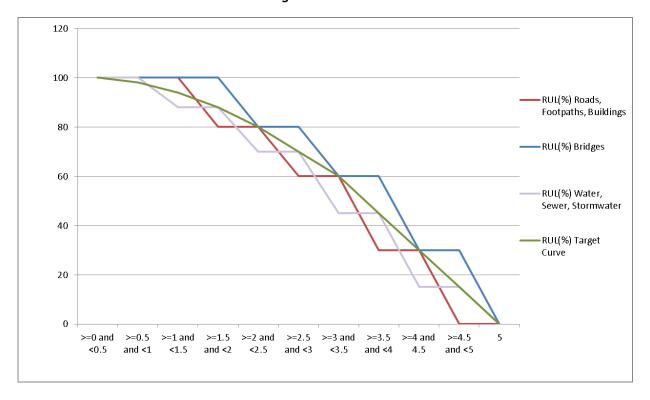
For Bridge assets, the Written Down Value (WDV) and Remaining Useful Life (RUL) is determined as shown in Table 5-2. This curve is then plotted in Figure 5-3 and compared against other asset classes' RUL curves.

Table 5-2: Bridge Assets RUL and WDV calculation

Condition Score	Condition Description	%age RUL at Condition	Calculation Used to determine WDV
<=2	Only planned maintenance is required	100	WDV = CRC - [(0.2*CRC) - (2-COND)*(0.2*CRC)]
>2 and <=3	Minor maintenance required plus planned maintenance	80	WDV = CRC - [(0.4*CRC) - (3-COND)*(0.2*CRC)]
>3 and <=4	Significant maintenance required	60	WDV = CRC - [(0.7*CRC) - (4-COND)*(0.3*CRC)]
>4 and <=5	Significant renewal/upgrade required	30	WDV = CRC - [CRC - (5- COND)*(0.3*CRC)]
>=5	Unserviceable	0	WDV = 0

28/05/2019 Page 12 of 40

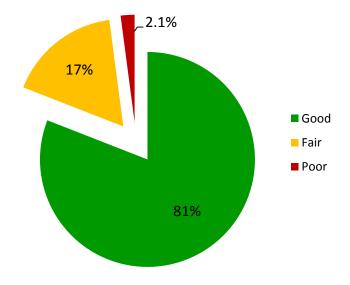
Figure 5-3: RUL curves



5.1.4 Asset Condition

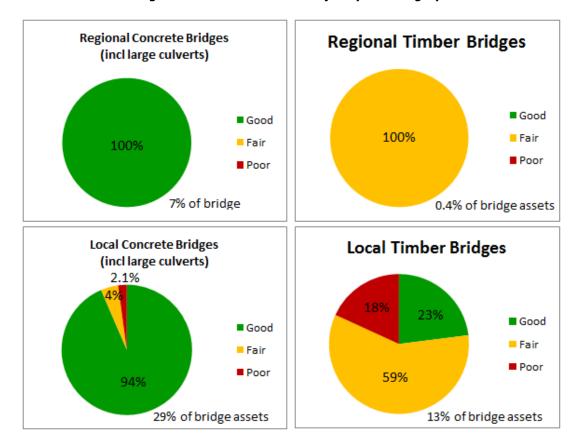
The condition profile of assets included within this AM Plan is shown in Figure 5-4 and Figure 5-5. Percentages are based on the ratio of CRC of assets in that condition range, divided by total CRC of all road assets. Note: this is different to backlog ratio percentage which is accumulated depreciation of assets in condition 4 and 5, divided by total WDV of all road assets. The backlog ratio is currently 2.4%

Figure 5-4: Asset Condition Profile



28/05/2019 Page 13 of 40

Figure 5-5: Asset Condition Profile by Subcategory



<u>Note</u>: the percentage in the bottom right corner of each chart is the CRC of this subcategory divided by total CRC of bridge assets

Condition is measured using a 1-5 rating system as detailed in Table 5.2.

Table 5-3: Description of Condition

Condition	Condition Rating	Description
Cood	1	Excellent condition: Only planned maintenance required.
Good	2	Good: Minor maintenance required plus planned maintenance.
Fair	3	Average: Significant maintenance required.
Door	4	Poor: Significant renewal/upgrade required.
Poor	5	Very Poor: Unserviceable.

28/05/2019 Page 14 of 40

Typical condition ratings are represented in the following photos.



Condition 1 Concrete Bridge (during construction)

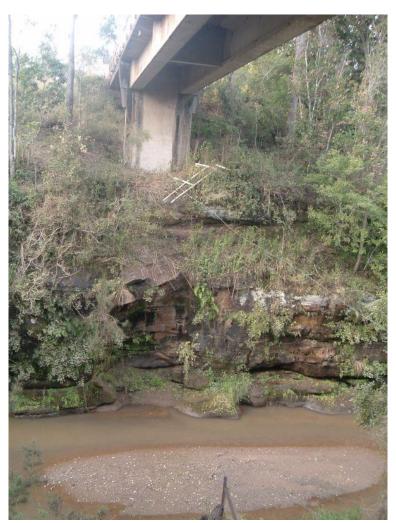


Typical Condition 2 Timber Bridge

28/05/2019 Page 15 of 40



Condition 2 Concrete/Timber composite bridge



Condition 3 Concrete Bridge

28/05/2019 Page 16 of 40



Condition 3 Timber Bridge



Condition 4 Timber Bridge

28/05/2019 Page 17 of 40



Condition 4 Timber Bridge



Condition 5 Timber Bridge

28/05/2019 Page 18 of 40



Condition 5 Timber Bridge that resulted in full closure

28/05/2019 Page 19 of 40

5.1.5 **Asset condition inspections**

Council has a target to inspect bridge assets once every 5yrs. The graphs below in Figure 5-6, splits each asset subcategory into three groups as a percentage of CRC:

- asset inspections within the last 5yrs (2013-2018)
- asset inspections within 5-10yrs (2009-2012), and
- assets that haven't been inspected for 10yrs or more.

(<u>Note</u>: the percentage in the bottom right corner of each chart is the CRC of this subcategory divided by total CRC of bridge assets)

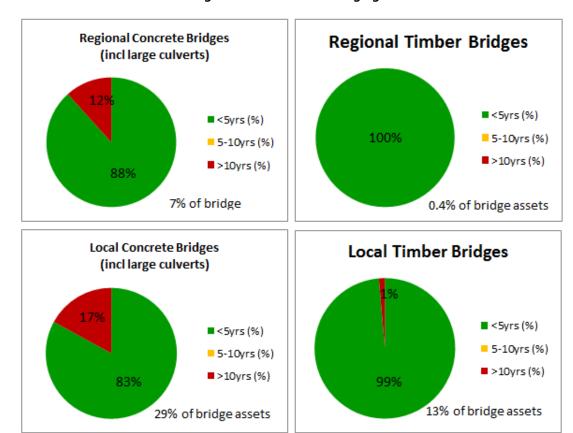


Figure 5-6: Condition rating age

Currently, 12% of bridge assets have not been inspection within the past 5yrs, with Local Concrete Bridges subcategory being the main contributor.

5.1.6 **Asset valuations**

The value of assets recorded in the asset register as at 2018 covered by this asset management plan is shown below.

Current Replacement Cost	\$ 126.650M
Depreciable Amount	\$ 126.650M
Written Down Value	\$ 94.621M
Annual Depreciation Expense	\$ 0.858M

28/05/2019 Page 20 of 40

Figures below show the rate of annual asset consumption and compares this to asset renewal and asset upgrade and expansion. All figures are averaged over the 10 year period.

Asset Consumption	0.68%	(Depreciation/Depreciable Amount)
Asset renewal	1.61%	(Capital renewal exp/Depreciable amount)
Asset renewal vs. consumption	237%	(Capital renewal exp/Depreciation)
Annual Upgrade/New	0%	(Capital upgrade exp/Depreciable amount)

Council is currently renewing assets at 237% of the rate they are being consumed. The excessive renewal rate is mainly due to the infrastructure backlog that the council is dealing with, as well as the continued aging of assets.

To provide services in a financially sustainable manner, Council will need to ensure that it is renewing assets at the rate they are being consumed over the medium-long term and funding the life cycle costs for all new assets and services in its long term financial plan.

5.1.7 **Asset hierarchy**

An asset hierarchy provides a framework for structuring data in an information system to assist in collection of data, reporting information and making decisions. The hierarchy includes the asset class and component used for asset planning and financial reporting and service level hierarchy used for service planning and delivery.

Council's service hierarchy is shown is Table 5-4.

Table 5-4: Asset Service Hierarchy

	Service Hierarchy	Service Level Objective
Regional Bridges		The regional bridge network provides regional access for communities; provides access to a broad range of services and supports economic growth and development.
	Arterial	
Local Dridges	Collector	The local bridge network provides access within
Local Bridges	Feeder	local communities; provides access to services and supports local growth and development.
	Residential Access	supports local growth and development.

5.2 Routine Maintenance Plan

Routine maintenance is the regular on-going work that is necessary to keep assets operating, including instances where portions of the asset fail and need immediate repair to make the asset operational again.

Proposed maintenance expenditure is shown in Table 5-5.

Table 5-5: Maintenance Expenditure Trends

Year	Maintenance Expenditure
2018/19	\$517,359
2019/20	\$486,318
2020/21	\$457,138
2021/22	\$429,710

Maintenance expenditure is planned to reduce in real terms over the period covered by this asset management plan. Assessment and prioritisation of reactive maintenance is undertaken by operational staff in accordance with Council's Road Network Management Plan.

28/05/2019 Page 21 of 40

5.3 Renewal/Replacement Plan

Renewal expenditure is major work which does not increase the asset's design capacity but restores, rehabilitates, replaces or renews an existing asset to its original service potential. Work over and above restoring an asset to original service potential is upgrade/expansion or new works expenditure.

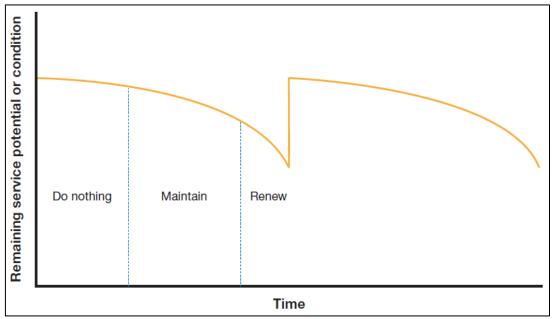


Figure 5-7: Typical asset management strategy

Source: CPA Valuation and depreciation guide2013

5.3.1 Renewal Plan

The ranking criteria used to determine priority of identified renewal proposals is detailed in Table 5-6.

CriteriaWeightingAvailable budget10%Bridge Hierarchy30%Condition30%Risk20%Regulatory Standards10%Total100%

Table 5-6: Renewal Priority Ranking Criteria

Renewal will be undertaken using 'low-cost' renewal methods where practical. The aim of 'low-cost' renewals is to restore the service potential or future economic benefits of the asset by renewing the assets at a cost less than replacement cost.

Examples of low cost renewal include replacement of bridge components in place of full bridge replacement.

28/05/2019 Page 22 of 40

5.3.2 **Summary of projected renewal expenditure**

Renewal expenditure in the short to medium term will be focused on reducing the existing infrastructure backlog. In addition, renewal expenditures are forecast to increase over time as the asset stock ages. The costs are summarised in Figure 5-8. Note that all costs are shown in 2018 dollar values. The projected capital renewal program is shown in Appendix C – Projected capital works program.

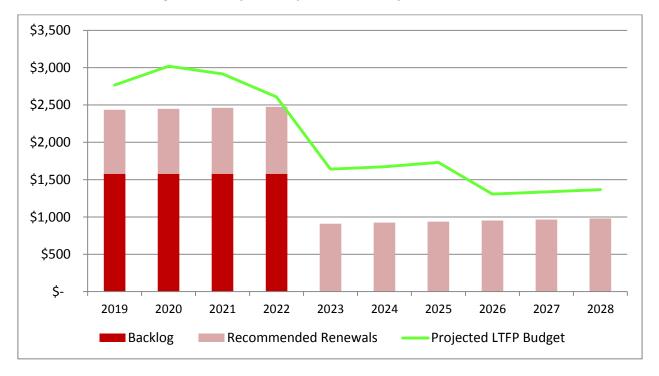


Figure 5-8: Projected Capital Renewal Expenditure (\$'000s)

The current projections eliminate the backlog over 5yrs and result in no unfunded renewals over the 10yr period.

Table 5.6 shows the relationship between projected and budgeted renewals.

Table 5-7: Projected and Budgeted Renewals and Expenditure Shortfall (\$'000s)

Year	mmended newals	Planned ewal Budget	 -ve	t Renewal Funding e Gap, +ve Surplus)	Planned Backlog spend	Backlog Remaining
Backlog						-\$ 6,311.00
2019	\$ 858.00	\$ 2,766.00	\$	1,908.00	\$ 1,577.75	-\$ 4,733.25
2020	\$ 870.87	\$ 3,020.00	\$	2,149.13	\$ 1,577.75	-\$ 3,155.50
2021	\$ 883.93	\$ 2,915.97	\$	2,032.04	\$ 1,577.75	-\$ 1,577.75
2022	\$ 897.19	\$ 2,608.33	\$	1,711.14	\$ 1,577.75	\$0
2023	\$ 910.65	\$ 1,640.00	\$	729.35	\$0	\$0
2024	\$ 924.31	\$ 1,673.60	\$	749.29	\$0	\$0
2025	\$ 938.17	\$ 1,731.04	\$	792.86	\$0	\$0
2026	\$ 952.25	\$ 1,306.53	\$	354.29	\$0	\$0
2027	\$ 966.53	\$ 1,335.93	\$	369.40	\$0	\$0
2028	\$ 981.03	\$ 1,366.00	\$	384.97	\$0	\$0

Note: Backlog spend does not include any annual indexation.

28/05/2019 Page 23 of 40

5.4 Creation/Acquisition/Upgrade Plan

New works are those works that create a new asset that did not previously exist, or works which upgrade or improve an existing asset beyond its existing capacity. They may result from growth, social or environmental needs. Assets may also be acquired at no cost to the Council from land development. These assets from growth are considered in Section 4.4.

Council's planned upgrades of bridge assets have been selected and prioritised based on vehicle loads, traffic count and potential for growth. Unlike other asset classes, bridge asset upgrades are included in the capital replacement cost of that bridge. Hence, bridge upgrades are covered in bridge renewal costs. Meaning there is no additional budget specifically for bridge upgrades.

5.5 **Disposal Plan**

Disposal includes any activity associated with disposal of a decommissioned asset including impairment, sale, demolition or relocation. Assets identified for possible decommissioning and disposal are shown in Table 5-8, together with estimated annual savings from not having to fund operations and maintenance of the assets. These assets will be further reinvestigated to determine the required levels of service and see what options are available for alternate service delivery, if any.

Where cashflow projections from asset disposals are not available, these will be developed in future revisions of this asset management plan.

Table 5-8: Assets identified for Disposal

Asset	Reason for Disposal	Timing	Net Disposal Expenditure (Expend +ve, Revenue –ve)	Operations & Maintenance Annual Savings
No assets identified for disposal in this asset management plan				

28/05/2019 Page 24 of 40

6 ASSET MANAGEMENT PRACTICES

6.1 Accounting/Financial Systems

6.1.1 Accounting and financial systems

Kyogle Council uses the Civica PCS software solution for asset accounting.

6.1.2 Accountabilities for financial systems

The financial systems are managed by the Corporate and Community Services section

6.1.3 **Accounting standards and regulations**

Council works under Australian Accounting Standards and NSW State Legislation/Regulations and Directives issued by the Division of Local Government

NSW Local Government Act 1993

NSW Local Government Code of Accounting Practice and Financial Reporting

Australian Accounting Standards Board AASB116

6.1.4 Required changes to asset accounting systems arising from this AM Plan

Changes to asset management systems identified as a result of preparation of this asset management plan are:

Improved monitoring and assessment of condition data and condition trends over time

6.2 **Asset Management Systems**

6.2.1 Asset management system and registers

- BizeAsset
- AssetAssyst

6.2.2 Linkage from asset management to financial system

Linkage from the asset management system to the financial systems is detailed in the internal Asset Accounting Policy and Procedure.

6.2.3 Accountabilities for asset management system and data

Assets and Infrastructure Services

6.3 Information Flow Requirements and Processes

The key information flows into this asset management plan are:

- Current condition assessment of assets
- Council strategic and operational plans,
- Service requests from the community,
- Network assets information,
- The unit rates for categories of work/materials,
- Current levels of service, expenditures, service deficiencies and service risks,
- Projections of various factors affecting future demand for services and new assets acquired by Council,
- Future capital works programs,
- Financial asset values.

The key information flows from this asset management plan are:

28/05/2019 Page 25 of 40

- The projected Works Program and trends,
- The resulting budget and long term financial plan expenditure projections,
- Financial sustainability indicators.

These will impact the Long Term Financial Plan, Delivery Program, Operational Plan and departmental business plans.

28/05/2019 Page 26 of 40

7 PLAN IMPROVEMENT AND MONITORING

7.1 **Performance Measures**

The effectiveness of the asset management plan can be measured in the following ways:

- The degree to which the required cashflows identified in this asset management plan are incorporated into the organisation's long term financial plan and Community/Strategic Planning processes and documents
- The degree to which 1-5 year detailed works programs, budgets, business plans and organisational structures take into account the 'global' works program trends provided by the asset management plan
- The degree to which the overall condition of the assets improve over time
- The degree to which the backlog decreases over time

7.2 Improvement Plan

The asset management improvement plan generated from this asset management plan is shown in Table 8.2.

Table 7-1: Improvement Plan

Task No	Task	Responsibility	Resources Required	Timeline
1	Linking of the customer service system to the corporate asset register to link requests to asset records	Corporate	Staff Time	2021
2	Review the accuracy and currency of asset condition data	Technical	Staff Time	Ongoing
3	Continue to review the procedures for maintaining the Asset and Financial Registers	Corporate (Technical & Financial)	Staff Time	Ongoing

7.3 Monitoring and Review Procedures

This asset management plan will be referenced during annual budget preparation and amended to recognise any material changes in service levels and/or resources available to provide those services as a result of the budget decision process. The Plan has a maximum life of 4 years.

28/05/2019 Page 27 of 40

APPENDICES

Appendix A – Relevant community goals and objectives

Goal	Objective	How Goal and Objectives are addressed in AMP
Participation and	To encourage public participation and provide access opportunities for the recognition of community needs and expectations and	Development of the service levels provided by infrastructure, and the balancing of this with the available funding and acceptable risk will require communication and consultation with the community
Communication	develop appropriate lines of communications to ensure that the public is kept well informed as to Council activities.	A primary objective of the asset management plans prepared by Council is to establish the position in relation to maintaining the current infrastructure at a level which will sustain an improved standard of services.
	To set the example in Local Government through efficient	Council has limited resources. Asset Management Planning provides a way in which the community can be engaged in setting the priorities and allocation of these resources.
Management	and effective management practices and provide an environment that fosters trust, encourages and rewards	The Asset Management Plan in conjunction with Long Term Financial Plans are the tools by which Council assesses the long term financial sustainability of council's infrastructure assets
	excellence in performance and which supports the implementation of Council's goals and policies.	Planning long term sustainable infrastructure is important to enable the appropriate resources to be identified and provided
		Planning long term sustainable infrastructure is important to enable Council to meet its statutory requirements
Quality of Life	To promote the physical, social, cultural and general well-being of the Community.	The provision and maintenance of public infrastructure is an important component contributing to the cultural and social needs of the community
Roads and Traffic	To provide an adequate and safe road system appropriate to present and future vehicular and pedestrian use.	Planning and long term management of these assets is one of the principle aims of the Asset Management Plans and is essential to the sustainability of these services.
	To provide and facilitate the provision of a broad range of services to a standard	Infrastructure is provided to support services. Getting the correct infrastructure appropriate to the needs of the community is a primary goal of Asset Management Planning.
Services commensurate with the needs and resources of a rural council and provide equitable access for all residents		A primary objective of the asset management plan is to develop a lifecycle approach to the provision of infrastructure. This aims to minimise the life cycle cost of assets while maximising the service that is delivered
Promotion and Development	To assist and coordinate the ongoing development of Kyogle Council area and enhance and market its capacity as a location for residential opportunities, primary production, industry, commerce, government services and tourism.	Economic sustainability and growth is linked to the services provided by infrastructure. The Asset Management Plans will provide guidance as to the assets required, and the long term sustainability of these services.
Environment	To achieve acceptable	Infrastructure is provided to support services. Getting the

	planning, development and building standards; to manage waste collection and disposal	correct infrastructure appropriate to the needs of the community is a primary goal of Asset Management Planning.
	and to protect the environment in accordance with community expectations.	Council has limited resources. Asset Management Planning provides a way in which the community can be engaged in setting the priorities and allocation of these resources.
		Provision of the appropriate infrastructure to support the natural environment will continue to be a long term consideration in Asset Management Planning
Health	To protect and promote the health and well-being of the Kyogle Council area Community by developing and applying environmental health and public safety measures.	The provision and maintenance of infrastructure is an important component contributing to the health and safety of the community

Appendix B – Legislative Requirements

Legislation	Requirement
	Sets out role, purpose, responsibilities and powers of local governments.
	The purposes of this Act are as follows:
	(a) to provide the legal framework for an effective, efficient,
	environmentally responsible and open system of local government in New
	South Wales,
	(b) to regulate the relationships between the people and bodies comprising
	the system of local government in New South Wales,
	(c) to encourage and assist the effective participation of local communities in the affairs of local government,
	(d) to give councils:
	the ability to provide goods, services and facilities, and to carry out
Local Government Act 1993	activities, appropriate to the current and future needs of local communities
	and of the wider public
	• the responsibility for administering some regulatory systems under this
	Act
	• a role in the management, improvement and development of the
	resources of their areas, (e) to require councils, councillors and council employees to have regard to
	the principles of ecologically sustainable development in carrying out their
	responsibilities.
	The land management provisions of the Act require that Council prepare
	plans of management for all community land. The plan of management
	identifies the management objectives for the land category, performance
	indicators and performance measures to meet the objectives identified.
	The Federal <i>Disability Discrimination Act 1992</i> (D.D.A.) provides protection
	for everyone in Australia against discrimination based on disability. It encourages everyone to be involved in implementing the Act and to share
	in the overall benefits to the community and the economy that flow from
	participation by the widest range of people.
	(a) to eliminate, as far as possible, discrimination against persons on the
	ground of disability in the areas of:
	(i) work, accommodation, education, access to premises, clubs and sport;
Disability Discriminations Act, 1992	and
	(ii) the provision of goods, facilities, services and land; and (iii) existing laws; and
	(iv) the administration of Commonwealth laws and programs; and
	(b) to ensure, as far as practicable, that persons with disabilities have the
	same rights to equality before the law as the rest of the community; and
	to promote recognition and acceptance within the community of the
	principle that persons with disabilities have the same fundamental rights as
	the rest of the community.
	Sets out roles and responsibilities to secure the health, safety and welfare of persons at work and covering injury management, emphasising
Work Health & Safety Act 2011	rehabilitation of workers particularly for return to work. Council is to
	provide a safe working environment and supply equipment to ensure
	safety.
	An Act to institute a system of environmental planning and assessment for
	the State of New South Wales. Among other requirements the Act outlines
Environmental Planning and	the requirement for the preparation of Local Environmental Plans (LEP),
Assessment Act 1979	Development Control Plans (DCP), Environmental Impact Assessments (EIA) and Environmental Impact Statements.
	Also provides for State Environmental Planning Policies (SEPP) for
	Infrastructure as well as exempt and complying development.
Biodiversity Conservation Act,	An Act to conserve threatened species, populations and ecological
2016	communities of animals and plants.

	Under the terms of this Act Council is required to ensure the long term
Water Management Act, 2000	survival of the species identified. An Act to provide for the carrying out of works for the removal of obstructions from and the improvement of rivers and foreshores and the prevention of erosion of lands by tidal and non-tidal waters
Protection of the Environment Operations Act 1997	Council is required to exercise due diligence to avoid environmental impact and among others are required to develop operations emergency plans and due diligence plans to ensure that procedures are in place to prevent or minimise pollution.
National Parks and Wildlife Act (1974)	An Act relating to the establishment, preservation and management of national parks, historic sites and certain other areas and the protection of certain fauna, native plants and Aboriginal objects
Public Works and Procurement Act 1912	Sets out the role of Council in the planning and construction of new assets.
Road Transport Act 2013	Provides for the administration and enforcement of road transport legislation. It provides for the review of decisions made under road transport legislation. It makes provision for the use of vehicles on roads and road related areas and also with respect to written off and wrecked vehicles. It also makes provision for safety and traffic management on roads and road related areas including alcohol and other drug use, speeding and other dangerous driving, traffic control devices and vehicle safety accidents.
Roads Act 1993	Sets out rights of members of the public to pass along public roads, establishes procedures for opening and closing a public road, and provides for the classification of roads. It also provides for declaration of the RTA and other public authorities as roads authorities for both classified and unclassified roads, and confers certain functions (in particular, the function of carrying out roadwork) on the RTA and other roads authorities. Finally it provides for distribution of functions conferred by this Act between the RTA and other roads authorities, and regulates the carrying out of various activities on public roads.
NSW Road Rules 2014	A provision of road rules that are based on the Australian Road Rules so as to ensure that the road rules applicable in this State are substantially uniform with road rules applicable elsewhere in Australia.
Valuation of Land Act 1916	This act sets out requirements in respect Land Valuation
Crown Land Management Act, 2016	An Act to provide for the administration and management of Crown land in the Eastern and Central Division of the State of NSW Council has large holdings of Crown land under it care, control and management.
Heritage Act, 1977	An Act to conserve the environmental heritage of the State. Several properties are listed under the terms of the Act and attract a high level of maintenance cost, approval and monitoring.
Building Code of Australia	The goal of the BCA is to enable the achievement of nationally consistent, minimum necessary standards of relevant, health, safety (including structural safety and safety from fire), amenity and sustainability objectives efficiently. This code also sets out the regulations for things such as means of escape, Limitation of people in buildings, Fire and evacuation plans and testing of special fire services and installations.
Plumbing and Drainage Act 2011	This act sets out requirements in respect to Plumbing Requirements
Rural Fires Act, 1997	An Act to establish the NSW Rural Fire Service and define its functions; to make provision for the prevention, mitigation and suppression of rural fires. Under the terms of this Act Council is required to mitigate any fire that emanate from bushland.
Dangerous Goods (Roads and Rail Transport) Act 2008	This act sets out the requirements for safe transport of dangerous goods
Fire Brigades Act 1989	This act sets out requirements in respect to Emergency Services for Fire and

	Rescue
State Records Act 1998	This act sets out requirements in respect maintaining Public Records
Surveillance Devices Act, 2007	This act sets out requirements in respect use of Surveillance Devices
Civil Liability Act 2002	An Act to make provision in relation to the recovery of damages for death
Civil Liability Act, 2002	or personal injury caused by the fault of a person

Appendix C – Projected capital works program

Bridges Bridges										
Project / Item	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
Local and Urban Road Bridges										
Peacock Creek Road Peacock Dip Bridge 107-1657	650,000									
Hayes Road 163-38 Timber to concrete bridge	330,000									
Boomi Creek Road Walkers Bridge 17-9708	260,000									
Findon Creek Road Burt Rayner Bridge 54-4153 (50% funding as per election promise)	100,000	1,000,000								
Causeway Replacements and Improvements	30,000	70,000								
Needhams Road 50-220 (external funding \$435,000 Fed BRP \$435,000 NSW FCR and \$30,000 industry contribution)		900,000								
Culmaran Creek Road 37-4322 Timber to concrete bridge (external funding \$398,000 Fed BRP and \$398,000 NSW FCR)	796,000									
Imeson Road 74-892 Bridge to Pipes	100,000									
Eden Creek 137-5965 Bridge to Pipes	100,000									
Duck Creek Rd 138-18164 Bridge to Pipes	70,000									
Woodworths Rd 12-681 Bridge to Pipes	50,000									
Woodworths Rd 12-1325 Bridge to Pipes	50,000									
Culmaran Creek Rd 37-2537 Bridge to Pipes	100,000									
Yates Rd 153-455 Bridge to Pipes	80,000									
Walters Rd 158-593 Bridge to Pipes	50,000									
Collins Creek Road 27-4461 Bridge to Pipes		100,000								
Collins Creek Road 27-4979 Bridge to Pipes		100,000								
Eden Creek Rd 137-1690 Bridge to Pipes		100,000								
Babyl Creek Rd 11-5684 Bridge to Pipes		100,000								
Babyl Creek Rd 11-6159 Bridge to Pipes		80,000								
Peacock Creek Road 107-7459 Bridge to Pipes		120,000								

Bridges											
Project / Item	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	
Local and Urban Road Bridges											
Green Pigeon Matthews Bridge 58-4875			1,200,000								
Dyraaba Rd 43-8789			280,000								
Yabbra Rd 152-7383			385,970								
Ellems Rd 48-405 Bridge to Pipes			100,000								
Old Dyraaba 87-9200 Bridge to Pipes			80,000								
Valley Road 136-578 Bridge to Pipes			80,000								
Woodworths Rd 12-1622 Bridge to Pipes			80,000								
Rodgers Rd 115-4553 Bridge to Pipes			60,000								
Eden Creek 137-8254 Bridge to Pipes			60,000								
Connells Rd 32-3774 Bridge to Pipes			80,000								
Hardings Rd 270-588 Bridge to Pipes			60,000								
Tunglebung Ck Rd 131-9541				300,000							
Wyndham Rd 147-160				560,000							
Wiangaree Back Road 145-10457				130,000							
Ferndale Road 52-3428				90,000							
Ironpot Ck Rd 73-15241				80,000							
Bridge renewals			225,000	724,166	820,000	836,800	865,518	653,266	667,966	682,998	
Bridge upgrades			225,000	724,166	820,000	836,800	865,518	653,266	667,966	682,998	
Total	2,766,000	2,570,000	2,915,970	2,608,332	1,640,000	1,673,600	1,731,036	1,306,532	1,335,931	1,365,995	
Regional Bridges											
Alcocks Bridge Bentley Road (MR544) 544-B2607		225,000									
Cooksons - Clarence Way (MR361) 361-B2562		225,000									
Total	0	450,000	0	0	0	0	0	0	0	0	

Appendix D – Abbreviations

AAAC Average annual asset consumption

AMP Asset management plan

ARI Average recurrence interval

BOD Biochemical (biological) oxygen demand

CRC Current replacement cost

CWMS Community wastewater management systems

DA Depreciable amount

EF Earthworks/formation

IRMP Infrastructure risk management plan

LCC Life Cycle cost

LCE Life cycle expenditure

MMS Maintenance management system

PCI Pavement condition index

RV Residual value

SS Suspended solids

vph Vehicles per hour

Appendix E – Glossary

Annual service cost (ASC)

- 1) Reporting actual cost
 - The annual (accrual) cost of providing a service including operations, maintenance, depreciation, finance/opportunity and disposal costs less revenue.
- 2) For investment analysis and budgeting
 An estimate of the cost that would be tendered,
 per annum, if tenders were called for the supply
 of a service to a performance specification for a
 fixed term. The Annual Service Cost includes
 operations, maintenance, depreciation, finance/
 opportunity and disposal costs, less revenue.

Asset

A resource controlled by an entity as a result of past events and from which future economic benefits are expected to flow to the entity. Infrastructure assets are a sub-class of property, plant and equipment which are non-current assets with a life greater than 12 months and enable services to be provided.

Asset class

A group of assets having a similar nature or function in the operations of an entity, and which, for purposes of disclosure, is shown as a single item without supplementary disclosure.

Asset condition assessment

The process of continuous or periodic inspection, assessment, measurement and interpretation of the resultant data to indicate the condition of a specific asset so as to determine the need for some preventative or remedial action.

Asset management (AM)

The combination of management, financial, economic, engineering and other practices applied to physical assets with the objective of providing the required level of service in the most cost effective manner.

Average annual asset consumption (AAAC)*

The amount of an organisation's asset base consumed during a reporting period (generally a year). This may be calculated by dividing the depreciable amount by the useful life (or total future economic benefits/service potential) and totalled for each and every asset OR by dividing the carrying amount (depreciated replacement cost) by the remaining useful life (or remaining future economic benefits/service potential) and totalled for each and every asset in an asset category or class.

Borrowings

A borrowing or loan is a contractual obligation of the borrowing entity to deliver cash or another financial asset to the lending entity over a specified period of time or at a specified point in time, to cover both the initial capital provided and the cost of the interest incurred for providing this capital. A borrowing or loan provides the means for the borrowing entity to finance outlays (typically physical assets) when it has insufficient funds of its own to do so, and for the lending entity to make a financial return, normally in the form of interest revenue, on the funding provided.

Capital expenditure

Relatively large (material) expenditure, which has benefits, expected to last for more than 12 months. Capital expenditure includes renewal, expansion and upgrade. Where capital projects involve a combination of renewal, expansion and/or upgrade expenditures, the total project cost needs to be allocated accordingly.

Capital expenditure - expansion

Expenditure that extends the capacity of an existing asset to provide benefits, at the same standard as is currently enjoyed by existing beneficiaries, to a new group of users. It is discretionary expenditure, which increases future operations and maintenance costs, because it increases the organisation's asset base, but may be associated with additional revenue from the new user group, eg. extending a drainage or road network, the provision of an oval or park in a new suburb for new residents.

Capital expenditure - new

Expenditure which creates a new asset providing a new service/output that did not exist beforehand. As it increases service potential it may impact revenue and will increase future operations and maintenance expenditure.

Capital expenditure - renewal

Expenditure on an existing asset or on replacing an existing asset, which returns the service capability of the asset up to that which it had originally. It is periodically required expenditure, relatively large (material) in value compared with the value of the components or sub-components of the asset being renewed. As it reinstates existing service potential, it generally has no impact on revenue, but may reduce future operations and maintenance expenditure if completed at the optimum time, eg. resurfacing or resheeting a material part of a road network, replacing a material section of a drainage network with pipes of the same capacity, resurfacing an oval.

Capital expenditure - upgrade

Expenditure, which enhances an existing asset to provide a higher level of service or expenditure that will increase the life of the asset beyond that which it had originally. Upgrade expenditure is discretionary and often does not result in additional revenue unless direct user charges apply. It will increase operations

and maintenance expenditure in the future because of the increase in the organisation's asset base, eg. widening the sealed area of an existing road, replacing drainage pipes with pipes of a greater capacity, enlarging a grandstand at a sporting facility.

Capital funding

Funding to pay for capital expenditure.

Capital grants

Monies received generally tied to the specific projects for which they are granted, which are often upgrade and/or expansion or new investment proposals.

Capital investment expenditure

See capital expenditure definition

Capitalisation threshold

The value of expenditure on non-current assets above which the expenditure is recognised as capital expenditure and below which the expenditure is charged as an expense in the year of acquisition.

Carrying amount

The amount at which an asset is recognised after deducting any accumulated depreciation / amortisation and accumulated impairment losses thereon.

Class of assets

See asset class definition

Component

Specific parts of an asset having independent physical or functional identity and having specific attributes such as different life expectancy, maintenance regimes, risk or criticality.

Cost of an asset

The amount of cash or cash equivalents paid or the fair value of the consideration given to acquire an asset at the time of its acquisition or construction, including any costs necessary to place the asset into service. This includes one-off design and project management costs.

Current replacement cost (CRC)

The cost the entity would incur to acquire the asset on the reporting date. The cost is measured by reference to the lowest cost at which the gross future economic benefits could be obtained in the normal course of business or the minimum it would cost, to replace the existing asset with a technologically modern equivalent new asset (not a second hand one) with the same economic benefits (gross service potential) allowing for any differences in the quantity and quality of output and in operating costs.

Depreciable amount

The cost of an asset, or other amount substituted for its cost, less its residual value.

Depreciated replacement cost (DRC)

The current replacement cost (CRC) of an asset less, where applicable, accumulated depreciation calculated on the basis of such cost to reflect the already consumed or expired future economic benefits of the asset.

Depreciation / amortisation

The systematic allocation of the depreciable amount (service potential) of an asset over its useful life.

Economic life

See useful life definition.

Expenditure

The spending of money on goods and services. Expenditure includes recurrent and capital.

Fair value

The amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties, in an arms length transaction.

Funding gap

A funding gap exists whenever an entity has insufficient capacity to fund asset renewal and other expenditure necessary to be able to appropriately maintain the range and level of services its existing asset stock was originally designed and intended to deliver. The service capability of the existing asset stock should be determined assuming no additional operating revenue, productivity improvements, or net financial liabilities above levels currently planned or projected. A current funding gap means service levels have already or are currently falling. A projected funding gap if not addressed will result in a future diminution of existing service levels.

Heritage asset

An asset with historic, artistic, scientific, technological, geographical or environmental qualities that is held and maintained principally for its contribution to knowledge and culture and this purpose is central to the objectives of the entity holding it.

Impairment Loss

The amount by which the carrying amount of an asset exceeds its recoverable amount.

Infrastructure assets

Physical assets that contribute to meeting the needs of organisations or the need for access to major economic and social facilities and services, eg. roads, drainage, footpaths and cycleways. These are typically large, interconnected networks or portfolios of composite assets. The components of these assets may be separately maintained, renewed or replaced individually so that the required level and standard of service from the network of assets is continuously sustained. Generally the components and hence the

assets have long lives. They are fixed in place and are often have no separate market value.

Investment property

Property held to earn rentals or for capital appreciation or both, rather than for:

- (a) use in the production or supply of goods or services or for administrative purposes; or
- (b) sale in the ordinary course of business.

Key performance indicator

A qualitative or quantitative measure of a service or activity used to compare actual performance against a standard or other target. Performance indicators commonly relate to statutory limits, safety, responsiveness, cost, comfort, asset performance, reliability, efficiency, environmental protection and customer satisfaction.

Level of service

The defined service quality for a particular service/activity against which service performance may be measured. Service levels usually relate to quality, quantity, reliability, responsiveness, environmental impact, acceptability and cost.

Life Cycle Cost

- Total LCC The total cost of an asset throughout its life including planning, design, construction, acquisition, operation, maintenance, rehabilitation and disposal costs.
- 2. Average LCC The life cycle cost (LCC) is average cost to provide the service over the longest asset life cycle. It comprises annual operations, maintenance and asset consumption expense, represented by depreciation expense. The Life Cycle Cost does not indicate the funds required to provide the service in a particular year.

Life Cycle Expenditure

The Life Cycle Expenditure (LCE) is the actual or planned annual operations, maintenance and capital renewal expenditure incurred in providing the service in a particular year. Life Cycle Expenditure may be compared to average Life Cycle Cost to give an initial indicator of life cycle sustainability.

Loans / borrowings

See borrowings.

Maintenance

All actions necessary for retaining an asset as near as practicable to its original condition, including regular ongoing day-to-day work necessary to keep assets operating, eg road patching but excluding rehabilitation or renewal. It is operating expenditure required to ensure that the asset reaches its expected useful life.

Planned maintenance

Repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown criteria/experience, prioritising scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

• Reactive maintenance

Unplanned repair work that is carried out in response to service requests and management/supervisory directions.

• Significant maintenance

Maintenance work to repair components or replace sub-components that needs to be identified as a specific maintenance item in the maintenance budget.

• Unplanned maintenance

Corrective work required in the short-term to restore an asset to working condition so it can continue to deliver the required service or to maintain its level of security and integrity.

Maintenance and renewal gap

Difference between estimated budgets and projected required expenditures for maintenance and renewal of assets to achieve/maintain specified service levels, totalled over a defined time (e.g. 5, 10 and 15 years).

Maintenance and renewal sustainability index

Ratio of estimated budget to projected expenditure for maintenance and renewal of assets over a defined time (eg 5, 10 and 15 years).

Maintenance expenditure

Recurrent expenditure, which is periodically or regularly required as part of the anticipated schedule of works required to ensure that the asset achieves its useful life and provides the required level of service. It is expenditure, which was anticipated in determining the asset's useful life.

Materiality

The notion of materiality guides the margin of error acceptable, the degree of precision required and the extent of the disclosure required when preparing general purpose financial reports. Information is material if its omission, misstatement or non-disclosure has the potential, individually or collectively, to influence the economic decisions of users taken on the basis of the financial report or affect the discharge of accountability by the management or governing body of the entity.

Modern equivalent asset

Assets that replicate what is in existence with the most cost-effective asset performing the same level of service. It is the most cost efficient, currently available asset which will provide the same stream of services as the existing asset is capable of producing. It allows for technology changes and, improvements and efficiencies in production and installation techniques

Net present value (NPV)

The value to the organisation of the cash flows associated with an asset, liability, activity or event calculated using a discount rate to reflect the time value of money. It is the net amount of discounted total cash inflows after deducting the value of the discounted total cash outflows arising from eg the continued use and subsequent disposal of the asset after deducting the value of the discounted total cash outflows.

Non-revenue generating investments

Investments for the provision of goods and services to sustain or improve services to the community that are not expected to generate any savings or revenue to the Council, eg. parks and playgrounds, footpaths, roads and bridges, libraries, etc.

Operations expenditure

Recurrent expenditure, which is continuously required to provide a service. In common use the term typically includes, eg power, fuel, staff, plant equipment, oncosts and overheads but excludes maintenance and depreciation. Maintenance and depreciation is on the other hand included in operating expenses.

Operating expense

The gross outflow of economic benefits, being cash and non cash items, during the period arising in the course of ordinary activities of an entity when those outflows result in decreases in equity, other than decreases relating to distributions to equity participants.

Pavement management system

A systematic process for measuring and predicting the condition of road pavements and wearing surfaces over time and recommending corrective actions.

PMS Score

A measure of condition of a road segment determined from a Pavement Management System.

Rate of annual asset consumption

A measure of average annual consumption of assets (AAAC) expressed as a percentage of the depreciable amount (AAAC/DA). Depreciation may be used for AAAC.

Rate of annual asset renewal

A measure of the rate at which assets are being renewed per annum expressed as a percentage of depreciable amount (capital renewal expenditure/DA).

Rate of annual asset upgrade

A measure of the rate at which assets are being upgraded and expanded per annum expressed as a percentage of depreciable amount (capital upgrade/expansion expenditure/DA).

Recoverable amount

The higher of an asset's fair value, less costs to sell and its value in use.

Recurrent expenditure

Relatively small (immaterial) expenditure or that which has benefits expected to last less than 12 months. Recurrent expenditure includes operations and maintenance expenditure.

Recurrent funding

Funding to pay for recurrent expenditure.

Rehabilitation

See capital renewal expenditure definition above.

Remaining useful life

The time remaining until an asset ceases to provide the required service level or economic usefulness. Age plus remaining useful life is useful life.

Renewal

See capital renewal expenditure definition above.

Residual value

The estimated amount that an entity would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life.

Revenue generating investments

Investments for the provision of goods and services to sustain or improve services to the community that are expected to generate some savings or revenue to offset operating costs, eg public halls and theatres, childcare centres, sporting and recreation facilities, tourist information centres, etc.

Risk management

The application of a formal process to the range of possible values relating to key factors associated with a risk in order to determine the resultant ranges of outcomes and their probability of occurrence.

Section or segment

A self-contained part or piece of an infrastructure asset.

Service potential

The total future service capacity of an asset. It is normally determined by reference to the operating capacity and economic life of an asset. A measure of service potential is used in the not-for-profit sector/public sector to value assets, particularly those not producing a cash flow.

Service potential remaining

A measure of the future economic benefits remaining in assets. It may be expressed in dollar values (Fair Value) or as a percentage of total anticipated future economic benefits. It is also a measure of the percentage of the asset's potential to provide services that is still available for use in providing services (Depreciated Replacement Cost/Depreciable Amount).

Strategic Longer-Term Plan

A plan covering the term of office of councillors (4 years minimum) reflecting the needs of the community for the foreseeable future. It brings together the detailed requirements in the council's longer-term plans such as the asset management plan and the long-term financial plan. The plan is prepared in consultation with the community and details where the council is at that point in time, where it wants to go, how it is going to get there, mechanisms for monitoring the achievement of the outcomes and how the plan will be resourced.

Specific Maintenance

Replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including repainting, building roof replacement, cycle, replacement of air conditioning equipment, etc. This work generally falls below the capital/maintenance threshold and needs to be identified in a specific maintenance budget allocation.

Sub-component

Smaller individual parts that make up a component part.

Useful life

Either:

- (a) the period over which an asset is expected to be available for use by an entity, or
- (b) the number of production or similar units expected to be obtained from the asset by the entity.

It is estimated or expected time between placing the asset into service and removing it from service, or the estimated period of time over which the future economic benefits embodied in a depreciable asset, are expected to be consumed by the council.

Value in Use

The present value of future cash flows expected to be derived from an asset or cash generating unit. It is deemed to be depreciated replacement cost (DRC) for those assets whose future economic benefits are not primarily dependent on the asset's ability to generate net cash inflows, where the entity would, if deprived of the asset, replace its remaining future economic benefits.

Source: IPWEA, 2009, Glossary