ADOPTION OF THE CAIRNS REGIONAL COUNCIL ASSET MANAGEMENT STRATEGY 2020-30

B Gardiner | 81/1/13 | #6384894

RECOMMENDATION:


EXECUTIVE SUMMARY:

Council carries out asset management activities on behalf of the community for assets with a replacement cost in excess of $5 Billion. The Local Government Act 2009 requires Council to develop and adopt a long-term (10 year) asset management plan that defines and articulates how asset management is undertaken. Council is specifically required to estimate operating and capital renewal/replacement budgets over a 10 year period.

The long-term asset management plan was last adopted by Council at the Special Budget meeting in July 2019 titled the Cairns Regional Council Asset Management Strategy 2019-29. This document has been reviewed and updated in preparation for Council to re-adopt the Strategy for the period 2020 to 2030.

The Asset Management Strategy needs to be a dynamic document requiring regular review as the asset base grows and ages, and as service level expectations from the community change. To ensure that the Asset Management Strategy remains current, the intention is to review and update the document on an annual basis for adoption at the Special Budget Meeting each year.

The Asset Management Strategy contains the following information:

- Assets owned by Council and their condition
- The framework used to determine the Levels of Service to be provided by the assets
- Future population growth and the strategies in place to deal with growth
- Lifecycle management of the assets from planning, creation, asset operations and maintenance, through to disposal
- Financial forecasts for operations, maintenance and renewal of assets for input into the 10 Year Financial Plan
- Corporate risks associated with Asset Management and critical assets
- Areas of improvement that are planned to be addressed in the future.
BACKGROUND:

The Asset Management Strategy 2020-2030 has been developed to meet the planning and accountability requirements of the Local Government Act 2009 and the Local Government Regulation 2012 which require Council to develop and adopt a Long Term Asset Management Plan.

The Asset Management Strategy is underpinned by 9 individual Asset Management Plans (AMPs) which have been developed for the following asset classes and sub-classes:

**Table 1: Asset Classes and Lead Department responsible**

<table>
<thead>
<tr>
<th>Asset classes</th>
<th>Lead Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings &amp; Facilities</td>
<td>Infrastructure Services</td>
</tr>
<tr>
<td>Parks, Leisure, Community and Cultural Assets</td>
<td>Community Sport &amp; Cultural Services</td>
</tr>
<tr>
<td>Drainage and Marine Infrastructure</td>
<td>Infrastructure Services</td>
</tr>
<tr>
<td>Transport Network</td>
<td>Infrastructure Services</td>
</tr>
<tr>
<td>Wastewater Assets</td>
<td>Water &amp; Waste</td>
</tr>
<tr>
<td>Water Assets</td>
<td>Water &amp; Waste</td>
</tr>
<tr>
<td>Waste Assets</td>
<td>Water &amp; Waste</td>
</tr>
<tr>
<td>Fleet &amp; Equipment</td>
<td>Infrastructure Services</td>
</tr>
<tr>
<td>Information Technology</td>
<td>Finance</td>
</tr>
</tbody>
</table>

Each of the AMPs provide details on the following topics:

1. The assets covered by the particular AMP
2. Levels of service definitions and categorisation of assets based on the defined level of service
3. Critical assets
4. Asset condition ratings
5. Maintenance strategies for the asset class including:
   a. Inspection frequency
   b. Preventative maintenance activities including any specified intervention levels
   c. Reactive maintenance response times
6. Estimated annual operational expenditure on asset maintenance activities over the next 10 years
7. Estimated costs of new and renewal of assets over the next 10 years.
8. Asset Management Improvement Plans – details of key actions that will be undertaken to improve asset management practices relative to the asset class.

**COMMENT:**

The Asset Management Strategy sets out the asset management principles to be employed across the Council and assigns roles and responsibilities for asset management tasks. The Asset Management Policy, which is included in the Strategy, defines a Governance Framework to ensure alignment of asset management activities to Council’s Corporate Plan and objectives.

**OPTIONS:**


OR


**CONSIDERATIONS:**

**Risk Management:**

There are 5 risks together with existing systems and controls listed in Council’s Corporate Risk Register relating to infrastructure and asset management as follows:

- Risk C2 - The delivery of infrastructure services does not meet the needs and expectations of the community
- Risk C3 - Planning for infrastructure does not meet the needs and expectations of the community.
- Risk E1 - The financial position of Council does not allow the continued provision of infrastructure and services expected by the community.
- Risk EN1 - The built and natural environments of the Cairns region are perceived as undesirable and un-safe.
- Risk G1 - Major loss of critical technology infrastructure, business systems and data

Areas for improvement have been identified in each of the individual AMPs. Progress in addressing these areas for improvement will be monitored by the Asset Management Steering Committee.

**Council Finance and the Local Economy:**

The replacement cost of Council’s assets is in excess of $5 Billion.

The AMPs include estimated forecast capital expenditure for creation of new and renewal of existing assets. Over the next ten years the adopted budget for capital expenditure requirements is $1.569 Billion.
The AMPs include current day and estimated operations and maintenance expenditure up to 2030. These expenses are estimated to increase from the current $132 Million to $158 Million annually in 2030. A review is currently underway to better define the actual operations and maintenance costs to inform future budgets.

Council’s long term financial forecast adopted as part of the 2020/30 Budget is underpinned by reasonable increases in rates and depicts a strong financial position throughout the forecast period. The forecast indicates that Council can accommodate estimated asset capital expenditure as well as operational and maintenance expenditure for the assets covered by the AMPs.

**Corporate and Operational Plans:**

The Asset Management Strategy and supporting AMPs support the following strategic goals in Council’s Corporate Plan:

- Natural assets
- Liveability
- Serving the Community.

**Statutory:**

The Asset Management Strategy has been prepared to meet the requirements of the Legislation governing asset management. Specifically, section 167 of the Local Government Regulation states that:

1. A local government must prepare and adopt a long-term asset management plan.
2. The long-term asset management plan continues in force for the period stated in the plan unless the local government adopts a new long-term asset management plan.
3. The period stated in the plan must be 10 years or more.

Within the Local Government Act 2009 S104, the “system of financial management by the local government” must include the following:

(i) A 5-year corporate plan that incorporates community engagement;
(ii) A long-term asset management plan (this Strategy document);
(iii) A long-term financial forecast;
(iv) An annual budget including revenue statement;
(v) An annual operational plan.

Within the Local Government Regulation, a long-term asset management plan is a document that must:

(a) Provide for strategies to ensure the sustainable management of the assets mentioned in the local government’s asset register and the infrastructure of the local government; and
9

(b) State the estimated capital expenditure for renewing, upgrading and extending the assets for the period covered by the plan; and

(c) Be part of, and consistent with, the long-term financial forecast.

Policy:

This Strategy is consistent with the Council’s adopted Asset Management Policy.

CONSULTATION:

The Executive Team has been actively involved in the development of this Strategy though the Asset Management Steering Committee. The Asset Coordination Group has also been consulted extensively in the development of this Strategy.

ATTACHMENTS:

Asset Management Strategy 2020-2030 (#6377313)

Bruce Gardiner
General Manager Infrastructure Services

John Andrejic
Chief Executive Officer
Asset Management Strategy

2020-2030

Cairns Regional Council
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Asset Management Policy

Asset Management Principles

Cairns Regional Council is committed to implementing a systematic asset management methodology to ensure that all Council assets are planned, created, operated, maintained, replaced and disposed of in accordance with Council’s priorities for service delivery.

The following principles are embedded in Council’s Asset Management Policy:

- Council supports a consistent corporate asset management approach across all asset classes.
- A 10-year Asset Management Strategy will be prepared, reviewed and adopted annually by Council which articulates how Council carries out asset management activities.
- The Asset Management Strategy will summarise the following:
  - The condition status of the assets
  - The levels of service framework to be applied to assets
  - How future demand for assets will be met
  - The lifecycle management of assets from planning through to asset disposal
  - Financial forecasts for operations and maintenance expenditure
  - Financial forecasts for capital renewal and construction of new assets
- Asset Management Plans will be prepared and reviewed annually for all core asset classes.
- Asset Management Plans will identify:
  - Specific levels of service for the assets
  - The condition status of the assets
  - Critical assets
  - Asset maintenance strategies
  - Future operational budget requirements
  - Capital budget requirements for renewal and construction of new assets so that the assets are capable of effectively providing the required levels of service
  - Any asset management improvement actions that will be implemented
- Asset management data from the Asset Management Plans shall be used to inform the Long-term financial plan for Council.
- Asset renewals identified from the Asset Management Plans should be considered as the baseline for future capital planning.
- Council will ensure that all employees are appropriately trained in asset management principles, practices and processes in order to effectively deliver asset management objectives.
- Relevant legislative requirements and political, social and economic environments are to be taken into account in asset management decision making.
- All asset renewal, upgrade or new projects are to include full lifecycle costs including maintenance as part of the project evaluation phase.
- Systematic and cyclic reviews will be undertaken for all asset classes to ensure that the assets are managed, valued, and depreciated in accordance with appropriate good practice and applicable Australian Standards.
- Council’s Asset Management System will be overseen by an Asset Steering Committee comprised of Executive Management or their delegates.
Roles and Responsibilities

Councillors adopt the Asset Management Policy and Asset Management Strategy and ensure sufficient resources are applied to manage the assets.

Chief Executive Officer has overall responsibility for developing asset management business processes, systems, organisational policies and procedures and reporting on the status and effectiveness of asset management within Council.

General Managers and Branch Managers are responsible for developing asset management plans, implementing asset management business processes, systems, organisational policies and procedures.

Employees with management or supervisory responsibilities will ensure the appropriate level management is applied to assets within their areas of responsibility as determined under the asset management plans.

Employees will be tasked based on the relevant Asset Management Plans and will be responsible for the timely completion of activities contained within these plans.

Governance Framework

A governance structure is established to ensure alignment of asset related activities to Council’s Corporate Plan and objectives through the asset management framework. The governance structure is as follows:
1. INTRODUCTION

1.1. Objective

This objective of this strategy is to provide an overview of how Cairns Regional Council carries out asset management activities for the over $5 billion of assets we manage on behalf of the community. The Strategy is underpinned by more detailed Asset Management Plans (AMP) for specific asset classes. The strategy summarises the following items:

- Assets owned by Council and their condition
- The framework used to determine the Levels of Service to be provided by the assets
- Predicted population growth and the strategies in place to ensure assets meet demand created by population growth
- Lifecycle management of the assets from planning for assets, creating assets, asset operations and maintenance, and disposal of assets
- Financial forecasts for operations and maintenance expenditure and renewal of assets for input into Council’s 10-year Financial Plan
- Corporate level risks associated with Asset Management and critical assets
- The systems employed to manage information relating to our assets
- Opportunities for improvement that are planned to be addressed in the future.

1.2. Legislative Requirements

This Strategy has been prepared to meet the requirements of the Legislation governing asset management. Specifically, section 167 of the Local Government Regulation 2012 states that:

1. A local government must prepare and adopt a long-term asset management plan.
2. The long-term asset management plan continues in force for the period stated in the plan unless the local government adopts a new long-term asset management plan.
3. The period stated in the plan must be 10 years or more.

Within the Local Government Act 2009 S104, the “system of financial management by the local government” must include the following:

i. A 5-year corporate plan that incorporates community engagement;
ii. A long-term asset management plan (this Strategy document);
iii. A long-term financial forecast;
iv. An annual budget including revenue statement;
v. An annual operational plan.

Within the Local Government Regulation, a long-term asset management plan is a document that must:

a. Provide for strategies to ensure the sustainable management of the assets mentioned in the local government’s asset register and the infrastructure of the local government; and
b. State the estimated capital expenditure for renewing, upgrading and extending the assets for the period covered by the plan; and
(c) Be part of, and consistent with, the long-term financial forecast.

1.3. Council’s Asset Management Journey

The Asset Management journey for Cairns Regional Council began in 2002 with the development and subsequent adoption of an Asset Management Strategy. This initial strategy resulted in some improvements in asset management practices but consistency in asset management practices across the organisation was
not effectively achieved. In mid-2006 a centralised team was established, the Asset Management Development Project (AMDP), to guide the implementation of asset management across Council.

In response to legislative reform under the Local Government Act 2009, individual Core AMPs were developed by the AMDP Team for core asset classes and summarised into Council’s first Corporate Long Term AMP.

The AMDP Team facilitated the delivery of asset management strategic objectives until June 2011 when the centralised team was disbanded and replaced by the Asset Management Group. The Asset Management Group (AMG) was comprised of key Managers and asset management staff from across the Council. The AMG provided the ongoing mechanism to implement and continuously improve Asset Management until 2014. During this time the AMG reported on progress directly to the Executive Management Team who acted as the Asset Management Steering Committee (AMSC).

In 2014 the governance framework was revised and the current Asset Management Policy was adopted. The revised framework includes the AMSC with refined membership including three Departmental General Managers, the CFO, and the chair of the ACG. The AMSC is responsible for oversight of asset management processes across Council and report directly to the Executive Team on a regular basis.

Each year the AMP across Council are reviewed and outcomes summarised in a revised Asset Management Strategy (this document). The Council is responsible for annually adopting the revised Asset Management Strategy. This is normally done at time of the adoption of the annual budget in June each year.
2. ASSETS MANAGED BY COUNCIL

Cairns Regional Council manages assets on behalf of the community with a replacement value estimated at over $5 billion. These assets have been categorised into nine core asset classes and individual AMP have been prepared for each asset class. Table 1 provides some key financial data relating to the value of each asset class. The following tables presents details of the specific asset holdings. Section 2.1 of the report contains details of the current condition of the assets.

Table 1: Financial Summary

<table>
<thead>
<tr>
<th>Asset Class</th>
<th>Replacement Cost ($ Million)</th>
<th>WDV ($ Million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings and Facilities</td>
<td>676</td>
<td>556</td>
</tr>
<tr>
<td>Parks, Leisure Community and Culture</td>
<td>174</td>
<td>121</td>
</tr>
<tr>
<td>Drainage and Marine Infrastructure</td>
<td>623</td>
<td>484</td>
</tr>
<tr>
<td>Transport Network</td>
<td>1,632</td>
<td>1,280</td>
</tr>
<tr>
<td>Wastewater Assets</td>
<td>1,032</td>
<td>694</td>
</tr>
<tr>
<td>Water Assets</td>
<td>1,150</td>
<td>527</td>
</tr>
<tr>
<td>Waste Assets</td>
<td>21</td>
<td>12</td>
</tr>
<tr>
<td>Fleet and Equipment</td>
<td>59</td>
<td>31</td>
</tr>
<tr>
<td>Information Technology</td>
<td>21</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5,393</strong></td>
<td><strong>3,659</strong></td>
</tr>
</tbody>
</table>

Table 2: Asset Holdings

<table>
<thead>
<tr>
<th>Buildings and Facilities Assets</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic facilities</td>
<td>7</td>
</tr>
<tr>
<td>Community facilities</td>
<td>36</td>
</tr>
<tr>
<td>Corporate offices</td>
<td>2</td>
</tr>
<tr>
<td>Cultural and exhibition facilities</td>
<td>11</td>
</tr>
<tr>
<td>Depot facilities</td>
<td>12</td>
</tr>
<tr>
<td>Disaster management facilities</td>
<td>10</td>
</tr>
<tr>
<td>Library facilities</td>
<td>8</td>
</tr>
<tr>
<td>Parks foreshores and natural reserves</td>
<td>114</td>
</tr>
<tr>
<td>Public service facilities (cemeteries, car parks)</td>
<td>9</td>
</tr>
<tr>
<td>Public toilets</td>
<td>68</td>
</tr>
<tr>
<td>Residential dwellings</td>
<td>1</td>
</tr>
<tr>
<td>Sport and leisure facilities</td>
<td>58</td>
</tr>
</tbody>
</table>

Parks Leisure Community and Culture Assets

| Caravan parks and campgrounds                   | 5                            |


<table>
<thead>
<tr>
<th>Park facilities</th>
<th>564</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sporting facilities</td>
<td>72</td>
</tr>
<tr>
<td>Tracks and trails</td>
<td>4</td>
</tr>
</tbody>
</table>

**Transport Network Assets**

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road network</td>
<td>1270km</td>
</tr>
<tr>
<td>Road drainage (kerb &amp; channel)</td>
<td>1552km</td>
</tr>
<tr>
<td>Footpaths and cycleways</td>
<td>542km</td>
</tr>
<tr>
<td>Road bridges and major culverts</td>
<td>104</td>
</tr>
<tr>
<td>Foot bridges</td>
<td>196</td>
</tr>
<tr>
<td>Street lights</td>
<td>2060</td>
</tr>
<tr>
<td>Traffic signals</td>
<td>55</td>
</tr>
<tr>
<td>Roundabouts</td>
<td>157</td>
</tr>
<tr>
<td>Medians and traffic islands</td>
<td>264,508m²</td>
</tr>
<tr>
<td>Guardrail</td>
<td>19km</td>
</tr>
<tr>
<td>Bus shelters</td>
<td>241</td>
</tr>
<tr>
<td>Speed humps</td>
<td>48</td>
</tr>
</tbody>
</table>

**Drainage and Marine Assets**

**Drainage Infrastructure**

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underground drainage - pipes</td>
<td>591km</td>
</tr>
<tr>
<td>Underground drainage - culverts</td>
<td>42km</td>
</tr>
<tr>
<td>Open channel drainage (lined &amp; unlined channels)</td>
<td>196km</td>
</tr>
<tr>
<td>Pump stations</td>
<td>3</td>
</tr>
<tr>
<td>Detention basins</td>
<td>4</td>
</tr>
<tr>
<td>Gross pollutant traps</td>
<td>283</td>
</tr>
<tr>
<td>Levee walls (major)</td>
<td>4</td>
</tr>
<tr>
<td>Associated Infrastructure (headwalls, tideflaps, manholes)</td>
<td>38,431</td>
</tr>
</tbody>
</table>

**Marine Infrastructure**

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat ramps (owned by DTMR, managed by CRC)</td>
<td>15</td>
</tr>
<tr>
<td>Jetties (2 owned by DTMR, 2 owned by CRC)</td>
<td>4</td>
</tr>
<tr>
<td>Sea walls</td>
<td>11</td>
</tr>
<tr>
<td>Beaches (Crown Land, managed by CRC)</td>
<td>11</td>
</tr>
</tbody>
</table>

**Wastewater Assets**

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment plants</td>
<td>6</td>
</tr>
<tr>
<td>Underground sewer network</td>
<td>1,312km</td>
</tr>
<tr>
<td>Sewer pump stations</td>
<td>180</td>
</tr>
<tr>
<td>Water Assets</td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Reservoirs</td>
<td>68</td>
</tr>
<tr>
<td>Water pump stations</td>
<td>49</td>
</tr>
<tr>
<td>Water intakes</td>
<td>14</td>
</tr>
<tr>
<td>Treatment Plants</td>
<td>2</td>
</tr>
<tr>
<td>Water mains</td>
<td>2,218km</td>
</tr>
<tr>
<td>Dams</td>
<td>1</td>
</tr>
<tr>
<td>Waste Assets</td>
<td></td>
</tr>
<tr>
<td>Transfer stations</td>
<td>5</td>
</tr>
<tr>
<td>Material recovery facility</td>
<td>1</td>
</tr>
<tr>
<td>Landfills (closed but monitored)</td>
<td>6</td>
</tr>
<tr>
<td>Buy back shop</td>
<td>1</td>
</tr>
<tr>
<td>Fleet and Equipment</td>
<td></td>
</tr>
<tr>
<td>SES vehicles</td>
<td>12</td>
</tr>
<tr>
<td>Passenger vehicles</td>
<td>35</td>
</tr>
<tr>
<td>Light commercials</td>
<td>216</td>
</tr>
<tr>
<td>Trucks</td>
<td>162</td>
</tr>
<tr>
<td>Plant – Heavy</td>
<td>48</td>
</tr>
<tr>
<td>Plant - light</td>
<td>346</td>
</tr>
<tr>
<td>Information Technology</td>
<td></td>
</tr>
<tr>
<td>CCTV cameras</td>
<td>322</td>
</tr>
<tr>
<td>CRC fibre network</td>
<td>17km</td>
</tr>
<tr>
<td>CRC wireless access points</td>
<td>107</td>
</tr>
<tr>
<td>Data storage</td>
<td>559TB</td>
</tr>
<tr>
<td>Desktop computers</td>
<td>1198</td>
</tr>
<tr>
<td>Desktop phones</td>
<td>925</td>
</tr>
<tr>
<td>Laptops</td>
<td>248</td>
</tr>
<tr>
<td>Mobile devices</td>
<td>1236</td>
</tr>
<tr>
<td>Printers</td>
<td>268</td>
</tr>
<tr>
<td>Servers</td>
<td>261</td>
</tr>
<tr>
<td>Switches and routers</td>
<td>358</td>
</tr>
<tr>
<td>Uninterruptible power supplies</td>
<td>100</td>
</tr>
</tbody>
</table>
2.1 Condition of the Assets

The following graphs provide a summary of asset condition by asset class based on the current known condition status. More details on asset condition are included in the individual AMP for each asset class. Condition status may be obtained from direct inspection, Council records and anticipated useful remaining life, or through the asset revaluation process where a percentage of the asset class will be inspected.

The condition rating criterion definitions are provided in section 4.3.1 of this Strategy. Condition 1 means the assets are considered to be in a very good state, while condition rating 5 means that the asset is in a very poor state and requires immediate maintenance, renewal, or disposal. The percentage of assets in each condition rating category is based on asset value unless otherwise specified.

Each AMP also include critical assets that have an extreme or high consequence if failure occurs. These have been identified using Council’s Enterprise Risk Management Framework as a basis. The risk rating was determined through consideration of the likelihood of risk of failure and the consequence.

2.1.1 Buildings and Facilities

All Council buildings are regularly inspected and assessments made of the condition of the assets. The overall condition rating of the asset class has remained relatively constant during 2019 as asset maintenance and improvements continue on a scheduled program. The majority of buildings and facilities (82%) have a condition rating of 3 and with just under 11% rated poor or very poor. Renewal or rectification programs will focus on the assets rated condition 4 and 5 in the coming years.

![Figure 1 Buildings and Facilities condition rating](image)

2.1.2 Parks, Leisure, Community and Cultural Assets

The condition of assets in this asset class is more difficult to define given the nature of the assets including parks, park embellishments, community and cultural assets. A review is currently underway to establish better condition rating criteria that provide a more realistic picture of the state of the assets. The condition ratings provided in the graph below are based on the 2019/20 assessment of this asset class and are not likely to have changed substantially.
2.1.3 Transport Network

The condition assessment results below for the road network are based on a comprehensive revaluation and condition assessment for the Transport network (excluding footpaths & bridges) completed in mid-2019. Footpaths and bridges were assessed in 2014/15 and this data has been used in this document.

Based on this available data, the condition of assets in this category is generally satisfactory with 72% condition 3 or above, and only 12% condition 4 and 5.
2.1.4 Drainage and Marine Infrastructure

Council is undertaking CCTV inspections of the majority of underground drainage assets with approximately 20 percent of assets inspected each year and remedial works scheduled based on priority. The overall condition of the drainage assets is good to very good with 86% of the assets in condition 1 or 2, and only 2% in poor or very poor condition. As the CCTV condition inspections continue there may be further changes to the condition rating of some of the drainage assets.

![Drainage Assets](image)

*Figure 4 Drainage assets condition rating*

Marine class assets do not have an associated condition rating as the majority of those assets are owned by the State, and Council only undertakes maintenance upon them. Consequently they are not financially recognised and do not form part of the Council’s rolling revaluation program. Specific marine assets that are owned by Council are inspected as part of similar asset classes. For example the two jetties owned and managed by Council are inspected as part of the bridge revaluation and inspection program.

2.1.5 Wastewater Assets

There are three levels of condition assessments for wastewater assets. Level 1 is where relevant data captured as part of the on-going operation and maintenance process. Level 2 is a formalised planned and structured asset inspection and condition assessment of the asset portfolio. Level 3 is detailed investigations usually conducted by specialist companies on an as required basis.

The overall condition of the wastewater assets is generally good to very good with 82% of the assets in condition 1 or 2. There are only 9% of assets in poor or very poor condition and renewal or rectification works will be focused on these assets in coming years.
2.1.6 Water Assets

Similar to wastewater assets, there are three levels of condition assessments for water assets. Level 1 is where relevant data captured as part of the on-going operation and maintenance process. Level 2 is a formalised planned and structured asset inspection and condition assessment of the asset portfolio. Level 3 is detailed investigations usually conducted by specialist companies on an as required basis.

There has been minimal change in the overall condition rating allocated to the water assets since the last version of the Asset Management Strategy was adopted by Council in 2019. There are currently 30% of assets in poor to very poor condition and renewal programs will focus on these assets in future years.
2.1.7 Waste Assets

Similar to wastewater and water assets, there are three levels of condition assessments for waste assets. Level 1 is where relevant data captured as part of the on-going operation and maintenance process. Level 2 is a formalised planned and structured asset inspection and condition assessment of the asset portfolio. Level 3 is detailed investigations usually conducted by specialist companies on an as required basis.

There has been a change in the condition of the waste assets from the 2018 Asset Management Strategy through degradation and refurbishment of assets.

A reassessment of the condition rating for Waste assets was conducted following a comprehensive revaluation of the asset class in 2018. There has been limited change to the condition of the Waste assets with 59% rated condition 1 and 2, and only 3% of assets in the poor to very poor categories.

![Figure 7 Waste assets condition rating](image)

2.1.8 Fleet and Equipment

The condition rating of fleet vehicles is based on a combination of three factors being condition, optimum replacement point to maximise return, and the mechanical performance status of a vehicle. There has been a slight improvement in the percentage of Fleet assets in good to very good condition from 38% to 44%. The percentage of Fleet assets in condition 4 or 5 has remained constant at 37%.
2.1.9 Information Technology

The condition of Technology assets is a function of currency and capability and are therefore not calculated on a percentage basis as per the other asset classes.
3. LEVELS OF SERVICE

Level of service can be defined in many different ways depending on the intended purpose of author, and there are multiple examples of approaches taken to levels of service in Council asset management plans across Australia. For example, there may be customer service standards, technical service standards, or legislated standards which need to be met. In addition, there are a range of factors that determine the level of service that is provided including the costs of providing the service, community expectations, and political desires.

Further, the level of service in the eyes of the community may also differ depending on the profile of the asset. For example, a park in a high profile foreshore area that is visited frequently by locals and visitors will have a different level of service expectation to a small park in a more remote location. Similarly, there is a strong community expectation that water supply assets are maintained and managed to guarantee supply and to ensure that human health is protected.

Asset managers across Council have in the past not consistently applied a common framework to develop levels of service for each asset class. The levels of service framework was reviewed in 2016 which has resulted in a simple and streamlined framework focusing more on levels of service from an asset management perspective as opposed to customer service or technical service standards approach.

The approach now adopted across Council is to define the levels of service in terms of a 5-star rating system similar in principle to that used for classifying hotels. Applying this framework, 5-star rated assets are assets that are very important to the community and have a high profile, high usage, or have a high risk rating if they fail. The commensurate expectation of the community is that a 5-star asset is always presented in top condition and is able to support a high level of expected service.

A 5-star asset requires a high frequency of inspections and a proactive level of maintenance to ensure the asset remains at a 5-star rating. At the other end of the spectrum, 1-star assets which are not very critical or important to the community would receive less frequent inspections and only reactive minimal maintenance. The majority of assets managed by Council are considered to be 3-star rated.

Due to the diverse nature of the assets managed by Council, the definitions for each of the star rating categories may differ in each of the AMPs but the principle remains the same. An example of the star rating framework used in the AMP is provided in Table 3.

<table>
<thead>
<tr>
<th>Star Rating</th>
<th>Definition</th>
<th>Level of Service</th>
</tr>
</thead>
</table>
| 5 star      | Very high profile, Very high utilisation, High Economic Value, High risk Rating | • Frequent proactive maintenance undertaken to ensure very high level of presentation and function at all times  
• Reactive maintenance given high priority |
| 4 star      | High Profile, High utilisation, Medium risk rating                        | • Less frequent proactive maintenance to ensure high standard of presentation and function.  
• Reactive maintenance given high priority |
<p>| 3 star      | Medium Profile, Medium utilisation                                       | • Occasional proactive maintenance to satisfactory standard of presentation and function. |</p>
<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low to medium risk rating</td>
<td>Reactive maintenance given medium priority</td>
</tr>
<tr>
<td>2 star</td>
<td>Low profile, Low utilisation, Low risk rating, Some proactive maintenance activities undertaken, Primarily reactive maintenance</td>
</tr>
<tr>
<td>1 star</td>
<td>Very low profile &amp; utilisation, Generally only reactive maintenance</td>
</tr>
</tbody>
</table>

In assigning a level of service to an asset, the asset managers are required to undertake the following steps:

1. Define the level of service for each of the star categories for the asset class
2. Assign each of the assets in the category a star rating
3. Define the inspection and maintenance strategy required to ensure that the expected levels of service for the asset are achieved.

When determining the inspection and maintenance strategy for each asset category, asset managers take account of the following factors as a minimum:

- Standards set in Council policy or procedures
- Technical or legal standards
- Community expectations.
4. FUTURE DEMAND

4.1 Introduction

The estimated residential population of Cairns is approximately 166,862 at the end of 2019. The City has sustained an average population growth of 1.9% over the last 10 years.

At the end of 2019, the region attracted over 3 million domestic and international tourists each year. The impacts of COVID-19 will dramatically impact on these numbers in 2020 and potential for several years to come. This may well have an impact by deferring the need for new assets.

4.2 Population Forecasts

The population projections provided in Table 4 have been derived as the basis of forecasting future demand and subsequent impact on infrastructure and associated services.

Table 4: Projected population increases for Cairns Local Government Area

<table>
<thead>
<tr>
<th>Year</th>
<th>Population Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>20/21</td>
<td>0.25%</td>
</tr>
<tr>
<td>21/22</td>
<td>0.25%</td>
</tr>
<tr>
<td>22/23</td>
<td>0.50%</td>
</tr>
<tr>
<td>23/24</td>
<td>0.50%</td>
</tr>
<tr>
<td>24/25</td>
<td>0.50%</td>
</tr>
<tr>
<td>25/26</td>
<td>0.75%</td>
</tr>
<tr>
<td>26/27</td>
<td>0.75%</td>
</tr>
<tr>
<td>27/28</td>
<td>1.00%</td>
</tr>
<tr>
<td>28/29</td>
<td>1.00%</td>
</tr>
<tr>
<td>29/30</td>
<td>1.25%</td>
</tr>
</tbody>
</table>

4.3 Demand Management

Demand from future population growth will be managed by:

- Ensuring asset planning is kept up-to-date
- Maintaining existing assets to achieve the maximum life possible
- Upgrading or providing new assets as demand warrants.

Demand will also be met by conditioning any new Development Approvals to provide appropriate infrastructure to meet the generated demand.

Asset planning will entail monitoring whether assets are able to keep up with the current and predicted demand for their usage at the desired service level. For example, road assets have certain vehicle carrying capacity before congestion increases beyond community accepted levels. Water and sewerage assets have design criteria based on providing for peak day demands. Asset renewal or replacement needs to occur prior to the ability for the asset to meet demand being outstripped.

Demand management will also include non-asset solutions, where applicable, to reduce or defer the need for additional or upgraded assets. Examples include water demand management strategies, increasing public transport usage, and providing walking and cycling infrastructure to reduce the need to expand the transport network.
5. LIFECYCLE MANAGEMENT

There are various views in the asset management literature regarding the number of stages in an asset lifecycle. For Cairns Regional Council, the 4 key stages shown in Figure 9 are recognised in the life of assets and are discussed in subsequent sections of this Strategy.

![Asset Lifecycle Stages](image)

5.1 Asset Planning

The asset planning process is where the need for a new or upgraded asset is identified and this is generally driven by population growth, aging or failing assets, or new community desires.

CairnsPlan 2016 Version 1.2 is the overarching planning document that sets out Cairns Regional Council’s intentions for future development of the region over the next 20 years. It identifies the preferred locations for various types of development and regulates the way land, buildings and structure are used.

CairnsPlan is required by legislation to be underpinned by a Local Government Infrastructure Plan (LGIP). Cairns LGIP was adopted by Council in June 2017 and commenced in July 2017. The purpose of the LGIP is to:

- integrate infrastructure planning with the land use planning identified in CairnsPlan 2016;
- provide transparency regarding Council’s intentions for the provision of trunk infrastructure for the Region;
- enable Council to estimate the cost of infrastructure provision to assist its long term financial planning;
- ensure that trunk infrastructure is planned and provided in an efficient and orderly manner; and
- provide a basis for the imposition of conditions about infrastructure on development approvals.

The LGIP identifies trunk infrastructure plans which are available on Council’s website for the following five networks that provide essential services for development:
• Water supply;
• Wastewater;
• Stormwater;
• Transport;
• Public parks and land for community facilities.

The LGIP contains Desired Standards of Service (DSS) for the above networks. These DSS direct the form and scale of infrastructure networks to be constructed and are expressed in terms of planning and design criteria based on quantitative and qualitative standards. The DSS are different to the Levels of Service defined for each asset class discussed in this Strategy.

Underpinning the LGIP are Schedules of Works for the future trunk assets required by the LGIP. These Schedules of Works provide a guide as to when trunk assets will need to be constructed. This is generally undertaken by developers and the assets are then donated to Council.

In addition to the LGIP, Council has prepared and routinely updates asset specific plans that identify the future need for upgrading or building new assets. These plans are listed in Table 5 and cover both trunk and non-trunk assets and inform the capital works program.

Table 5 Key asset planning documents

<table>
<thead>
<tr>
<th>Asset classes</th>
<th>Planning document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property &amp; Buildings</td>
<td>Parks and Recreation Strategic Plan 2010-2015 CRC Cultural Services Strategic Plan 2015-2020</td>
</tr>
<tr>
<td></td>
<td>Cairns Libraries Strategy</td>
</tr>
<tr>
<td></td>
<td>Community Development Strategic Plan 2012-2017</td>
</tr>
<tr>
<td></td>
<td>Cairns Regional Council Strategy for Culture and the Arts 2022</td>
</tr>
<tr>
<td></td>
<td>Public Toilet Strategy</td>
</tr>
<tr>
<td>Parks, Recreation and Natural Areas</td>
<td>Parks and Recreation Strategic Plan 2010-2015 CRC</td>
</tr>
<tr>
<td></td>
<td>Public Open Space Strategy</td>
</tr>
<tr>
<td>Drainage and Marine Infrastructure</td>
<td>Various Drainage Management Plans prepared for drainage catchments</td>
</tr>
<tr>
<td>Transport Network</td>
<td>Council’s Ultimate Road Hierarchy (Cairns Plan)</td>
</tr>
<tr>
<td></td>
<td>Cairns Walking &amp; Cycling Strategy Cairns Transport Network Plan</td>
</tr>
<tr>
<td>Wastewater Assets</td>
<td>Various Catchment Planning Studies generally revised every 5 years</td>
</tr>
<tr>
<td></td>
<td>Strategic Plan for Recycled Water Use</td>
</tr>
<tr>
<td>Water Assets</td>
<td>Water Supply Strategy</td>
</tr>
<tr>
<td></td>
<td>Catchment Planning Studies generally revised every 5 years</td>
</tr>
<tr>
<td></td>
<td>Drought Management Plan</td>
</tr>
<tr>
<td>Information Technology</td>
<td>Projects Portfolio Summary</td>
</tr>
<tr>
<td>Community and Cultural Assets</td>
<td>Library Strategy</td>
</tr>
</tbody>
</table>
5.2 Asset Acquisition and Renewal

The main reasons for upgrading or creating a new asset are to:

- Meet the demand from new users
- Satisfy or improve the level of service, or
- Provide a commercial return.

Council’s planning documents identify the predicted timing for new assets based on growth. The need for improved levels of service is generally identified from customer feedback or driven by customer complaints.

Assets requiring renewal are identified through inspections of assets as identified in the AMP for each asset class. Asset condition ratings determined during these inspections guide the timing of when renewal of the asset is required.

Council also has a fixed asset register (FAR) which contains estimates of the remaining useful life of assets. This data is used as a guide as to when assets may need to be renewed. Candidate assets are inspected to verify the accuracy of the remaining life estimate and asset renewal plans developed accordingly.

Once the need for a new asset or asset renewal is identified, capital works submissions are prepared for evaluation and consideration in the development of Council’s capital works program. Council maintains a high-level 10-year capital works program and a detailed 3-year rolling program. The 3-year program is considered on an annual basis at budget consideration time and adopted by Council generally in June/July each year.

Council has recently developed a corporate-wide Project Management Framework (PMF) with a view to establishing consistent project management processes across the organisation. The PMF will continue to be developed and implemented across Council as the framework matures.

The main methods of acquisition or delivery of assets are either by:

- Council staff internally
- Outsourcing to external contractors
- A combination of both of the above.

For development driven trunk infrastructure identified in the LGIP, infrastructure charges are levied against developers and Council constructs the assets, or the developers deliver the equivalent infrastructure and Council reimburses the cost of the infrastructure to developers. Non-trunk assets associated with urban development such as access road and park infrastructure are also routinely donated to Council.

5.3 Operations and Maintenance

Once assets have been brought into service, they need to be operated and maintained to maintain optimal asset performance. Council needs to ensure that budget allocations are provided in the long-term to allow assets to be maintained so community expectations can be met.

5.3.1 Asset Condition and Performance Assessment

All assets need to be regularly monitored or inspected to ascertain whether they are in a suitable condition to ensure that the desired Level of Service can be maintained. The frequency of inspections is determined by the type, criticality, age and known condition of an asset. For example, for relatively new buried stormwater assets, inspections may occur every 5 years. For high profile 5-star buildings, inspections should be every year at a minimum. Inspections can be either undertaken physically or, in the case of mechanical assets, these may be remotely monitored via telemetry and corrective maintenance undertaken as needed.
The inspection frequency is generally identified in the AMP for each asset class or in mire detailed schedules. In addition to the defined inspection frequency, additional inspections may be undertaken for assets that are critical, have a high risk of failure, or have high community profile.

Condition assessment outcomes are based on a scale of 1 to 5 with 1 being an asset in very good condition, and 5 being an asset in very poor condition close to failure (see Table 6). Due to the diverse nature of the different assets Council manages, different asset classes may use slightly different terminology when establishing the 5 condition levels but the principles remain the same.

Assets found to have condition ratings 1 or 2 generally require little maintenance. However, for 4 or 5-star assets, maintenance needs to be at a level so the assets retain condition ratings 1 or 2. Assets found to have condition ratings 3 to 5 are entered onto the capital works program for consideration for future renewal, replacement or upgrade.

Maintenance items identified during inspections are recorded and maintenance scheduled according to priority and as resources allow. Any defects that are considered high risk are dealt with as soon as practical while issues with lower risk are programmed into future maintenance schedules.

<table>
<thead>
<tr>
<th>Condition Rating</th>
<th>Definition</th>
<th>Outcome or action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Asset as new: asset is in very good condition or near new</td>
<td>No action required – continue with routine maintenance inspections</td>
</tr>
<tr>
<td>2</td>
<td>Asset in good condition: asset is reliable and operates as intended</td>
<td>No action required – continue with routine maintenance inspections</td>
</tr>
<tr>
<td>3</td>
<td>Fair Condition: Asset is reliable but requires some additional maintenance</td>
<td>Undertake required repairs/maintenance and ensure asset renewal is on future Capex program</td>
</tr>
</tbody>
</table>
| 4                | Poor condition: Asset still operates but does not meet intended duty or does not appear sound | Take immediate action as appropriate to the defects e.g. temporary supports
Untake risk assessment and risk mitigation actions as required.
Schedule appropriate action which may include rehabilitation and/or renewal in the short term. |
| 5                | Very poor condition: Asset needs immediate attention     | Take immediate action as appropriate
Immediately undertake risk assessment and risk mitigation actions as required.
Renew/replace or dispose of asset. |

5.3.2 Programmed and Reactive Maintenance

Asset maintenance includes proactive and reactive maintenance activities which support an asset in reaching its full life potential. Asset maintenance strategies for each asset class are contained in the relevant AMP and these may be supplemented by additional detailed work schedules and specific maintenance activities. These maintenance strategies are designed to ensure the star rating Level of Service for the individual assets are maintained.
Reactive maintenance is unplanned work generally driven by service requests, customer complaints, or breakdowns. Council staff may also identify reactive maintenance items during routine work activities. Reactive work requests are prioritised based on risk and other criteria, entered into work schedules, and attended to in accordance with set response times or when resources allow.

Community members generally make service requests through Council’s Customer Call Centre. These requests are managed via Council’s Customer Response Management (CRM) system.

5.3.3 Asset Disposal

Infrastructure assets may need to be disposed of as they reach the end of their useful life, or alternatively if Council has determined that a particular service provided by an asset is no longer to be provided. Assets may simply be retired from service, re-deployed for another purpose, or sold to external parties. Assets identified for disposal are generally identified during the annual capital works development process. The process for disposal of assets is governed by the Local Government Act and Regulations.

Assets reaching their useful life will be identified from asset registers and/or through condition assessment and maintenance inspections. As Council manages the assets on behalf of the community, consultation with stakeholders may be needed to identify opportunities to retire or sell assets.
6. FINANCIAL FORECASTS

Council needs to ensure that it has Long term financial sustainability requires Council to ensure it has adequate funds available to operate and maintain existing assets to desired service levels and to fund its proposed new and renewal capital programs. The types of expenditure on assets are shown graphically in Figure 2. This section of the Strategy forecasts future capital, operations and maintenance expenditure for the next 10 years. These funding requirements need to be considered in Council’s Long Term Financial Plan.

![Figure 10 Council expenditure on assets](image)

6.1 Forecast Capital Expenditure

One of the main objectives of developing a long-term asset management plan is to inform the 10 year capital works program which feeds into Council’s Long Term Financial Plan. Estimates of future capital expenditure are currently made from the remaining useful life and replacement cost data contained in Council’s Financial Asset Register (FAR). It is acknowledged that the FAR data may not reflect the actual replacement cost of assets but is an estimate only of the consumption of the assets.

The development of the AMPs is also intended to inform the capital works budget with renewal based on condition assessments and predicted future life of an asset. The AMPs do not generally include new or donated assets at this point in time.

The adopted capital works budget for the next 10 years are shown in Figure 11 and equates to $1.569 billion over the period. The peak in 2023 through to 2025 reflects the proposed construction of the Draper Road water treatment plant with an estimated total cost of $215 million. Further details of annual capital expenditure for each asset class are included in the AMP for each asset class.
Forecast Operations and Maintenance Expenditure

6.2 Forecast Operations and Maintenance Expenditure

Operations and maintenance expenditure includes those costs expended to keep an asset functioning to meet the desired Level of Service. They include items such as utility charges, labour, consumables, cleaning and repairs. As the asset base grows, so too will the need for additional operations and maintenance expenditure. Council needs to provide for these costs in future operational budgets or Levels of Service may decline. The AMPs have identified the approximate operations and maintenance costs for each asset class through to year 10 year assuming no change in operational processes or service level is estimated in Figure 12. Anticipated costs increase from approximately $132 million to $158 million in year 10.

For most asset classes, the current day operations and maintenance costs have been indexed each year to provide the estimates. For Information Technology assets, it has been assumed that there will be an increase of $300,000 required each year beyond year five to operate and maintain systems. A review has commenced to better define what costs should be associated with each asset class and to better inform the 10-year financial model.
6.3 Key Assumptions for Financial Forecasts

In some cases, Council’s Financial Asset Register (FAR) has been used as the initial source of data to establish asset renewal requirements. For accounting purposes, asset values held in the FAR are either based on original cost (plant and equipment including fleet), replacement cost (infrastructure assets, buildings, other structures and land improvements) or market value (freehold land). Assets held at replacement cost are comprehensively revalued every 4-5 years in line with Council’s rolling revaluation schedule.

A comprehensive revaluation requires a stocktake, condition assessment (including a review of useful lives and remaining useful lives), and unit rate review to be undertaken. In years where a comprehensive revaluation is not undertaken, the valuations of the assets classes are reviewed based on the movement in relevant indexes and costs.

The FAR is therefore considered to be an appropriate data source for estimating asset renewal requirements for long-term financial planning. However, it is acknowledged that the actual renewal costs at the time of renewal may differ from the FAR due to market conditions prevailing at the time.
7. RISK MANAGEMENT

Council has developed an Enterprise Risk Management Framework (ERMF) to ensure that risk management is an integral part of strategic planning, management and day to day activities of the organisation. The ERMF and Council’s Risk Management Policy are consistent with the Australian/New Zealand Standard ISO 31000:2009.

Application of the ERMF has resulted in the establishment of a Corporate Risk Register to ensure that strategic risks requiring treatment at a corporate level are managed accordingly, and Departmental risk registers which include operational risks managed at the Departmental or Business Unit level.

7.1 Corporate Risk Register

The Corporate Risk Register has 5 identified risks related specifically to infrastructure and Asset Management. These risks and existing systems and controls are summarised below.

Risk C2  The delivery of infrastructure services does not meet the needs and expectations of the community

Cairns Regional Council fails to adequately maintain and/or operate the wide range of infrastructure based services that are essential to the ongoing daily operation of a modern community, support public health and protect the environment.

Existing Systems & Controls

- Asset Management Strategy and Asset Management Plans for core assets
- Star-rating system in place to identify desired service levels of individual assets
- Monitoring of system Key Performance Indicators (KPIs) and customer complaints/service requests
- Centralised Building Facilities Management
- Systems maintained to minimise likelihood of environmental harm occurring and response plans delivered if incidents occur
- Quality management systems are maintained (where appropriate) to ensure desired outcomes are achieved e.g. drinking water quality
- Management of hazardous chemicals and wastes to minimise risk to staff and public
- Appropriate financial resources are budgeted for and applied to allow for the ongoing delivery of the services to the desired standard
- Supply chains for materials and resources (including power) are managed and monitored to ensure continuity of service can be achieved
- Business Continuity Plans (BCP’s) in place to respond to failure of critical assets, failure of supply chains and natural disasters, including drought and cyclone.
- Condition monitoring, annual assessment and community engagement for Copperlode Dam per EAP requirements
- Reef Guardian Program / Healthy Water Ways Partnership.

Risk C3  Planning for infrastructure does not meet the needs and expectations of the community.

Cairns Regional Council fails to undertake the robust planning required to ensure that the capacity and capability of infrastructure is sufficient to provide for growth, any anticipated level of service changes and the required level of asset renewals. Allied to this is the risk that the delivery of the projects arising is not aligned with available funding and/or the project is not delivered in the required timeframe.
Existing Systems & Controls

- Asset Management Strategy and Asset Management Plans for core assets
- Generation of robust 10-year Capital Work forecasts aligned with ability to fund and alignment with the Local Government Infrastructure Plan
- Generation of robust 10-year Capital Works forecast to inform 10 year plan
- Local Government Infrastructure Plan for trunk infrastructure developed and submitted to state for approval
- Delivery of Capital Works Program
- Comprehensive identification of assets employed, their desired level of service, current condition are criticality assessed.
- Statutory and/or licence obligations are identified and met
- Development and adoption of Customer Service Standards where appropriate
- Continuation of robust planning processes to identify capacity and assets required to accommodate future growth
- Maintain comprehensive design standards for infrastructure
- Water Security Implementation Plan (WSIP).

Risk E1  Financial Position

The financial position of Council does not allow the continued provision of infrastructure and services expected by the community. This involves heeding the short term expectations of the community with respect to immediate costs passed to them by Council and balancing this with the longer term needs including infrastructure upgrades and capacity increases.

Existing Systems & Controls

- Targeting (and achieving) a balanced budget and low levels of Council debt
- 10-year Capital Works program with alignment with the Local Government Infrastructure Plan
- 10-year financial modelling is undertaken on an annual basis
- Asset lifecycles including maintenance, expansion and renewal are managed through Asset Management Plans.

Risk EN1  The built and natural environments of the Cairns region are perceived as undesirable and unsafe.

Cairns Regional Council fails to create a community where people can visit and live comfortably and safely and delivers a high standard of amenity in the built and natural environments. A lack of collaboration between Council and community members, service providers and governments results in poor community perception of safety and crime prevention.

Existing Systems & Controls

- Natural Disaster Mitigation Strategies improve community safety and resilience
- Implementation of security programs across key sites
- CitySafe CCTV monitoring
- Infrastructure design specifications ensure an appropriate standard of infrastructure is provided
- Continued implementation of crime prevention initiatives through partnerships
Implementation of CairnsPlan 2016
Biosecurity Plan.

Risk G1 Major loss of critical technology infrastructure, business systems and data

The loss of critical technology infrastructure, business systems or data would severely impact Council’s ability to effectively provide infrastructure and services expected by the community.

Existing Systems & Controls

- Published Technology Plan defining standards relating to software and hardware currency
- Resourced and actioned asset management plans that ensure software and hardware currency
- Ongoing capacity planning and management
- Business Continuity Plan, reviewed annually, including training and testing
- Improved IT Disaster Recovery capability implemented.
- Data and software duplicated across two data centre (Spence Street and Woree). Additional back-ups and archives in place.
- Appropriate physical and systems access controls in place ; Regular review of key system access
- Effective change management process for all system changes
- Records Management Strategy in place including replication of electronic records to offsite data store, digitisation of microfilm / fiche and historical documents, archival of most electronic records to disk based systems reducing risk of tape degradation
- Annual review and update the Business Continuity Plan, including training and testing.
8. ASSET MANAGEMENT IMPROVEMENT PLANS

As indicated in this Strategy, asset management is a continual journey as new assets are created, existing assets age, new technology becomes available and customer expectations continually change. Asset management practices need to continually evolve to keep pace with these changes. Each of the AMPs created for core asset classes includes an Asset Management Improvement Plan which outlines the key improvement activities that will be undertaken in the next 12 months including timeframes and responsible persons. Progress against these actions is monitored by the Asset Management Steering Committee.