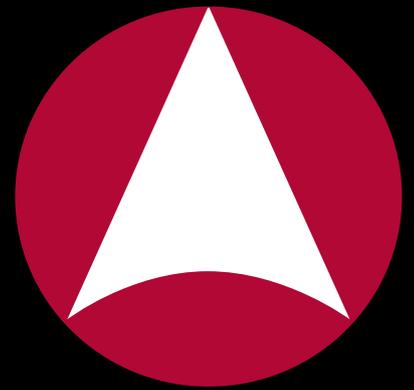




Queensland

**IPWEA**

INSTITUTE OF PUBLIC WORKS  
ENGINEERING AUSTRALASIA



# EXCELLENCE AWARDS 2019

CELEBRATING 17 YEARS OF EXCELLENCE IN PUBLIC WORKS

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## President's Foreword

The 2019 IPWEAQ Excellence Awards acknowledges the achievements of 22 Queensland councils and 16 private consultancies and other organisations. Winners will be announced at the Excellence Awards and gala dinner in Brisbane at the Royal International Convention Centre on 23 October 2019.

The awards program, now in its seventeenth year, places a spotlight on the projects and people who deliver incredible outcomes for our communities. We're very proud to be able to coordinate the awards program and to be promoting the achievements of our sector. I hope you enjoy reading the Excellence Awards 2019 commemorative book which serves also to document for future generations, the projects and issues we resolved with innovation and excellence during our time.

Thank you to our volunteer judges for giving your time and passion to review 69 nominations and for applying your expertise and wisdom in the selection of our winners and commendations.

Thank you also to our overall Excellence Awards sponsor, Leading Roles and to each of the individual awards sponsors (acknowledged throughout) for your support of our sector.

Congratulations to all participants in the 2019 awards program for challenging our judges with the quality of submissions.

We invite you to inspire others by nominating your people and projects for the 2020 awards program launching early 2020. It is our great pleasure to be able to showcase your people and projects for you.

Sereen McKenzie

President



# SPONSORS

## Engineer of the Year Award



Queensland Government

Department of Transport and Main Roads

## Team Member of the Year Award



## Woman in Engineering Award



## Young Engineer of the Year Award



## Asset Management Award



## Environment and Sustainability Award



## Innovation Award



2017  
The year of  
Solutions

## Innovation and Sustainability in Water Award



## Road Safety Award



## Project \$5-10 mil Award



Pragmatic  
**Thinking**  
A Behaviour & Motivation  
Strategy Company

## Projects over \$10mil Award



BOARD OF  
**PROFESSIONAL  
ENGINEERS**  
OF QUEENSLAND



# JUDGES

# Thank you to our 2019 Judges



Ged Brennan



Martin Crow



Rob Daly



Angela Fry



Andrew Johnson



Dion Jones



Gerhard Joubert



Glenda Kirk



Seren McKenzie



Kym Murphy



Patrick Murphy



Natasha Murray



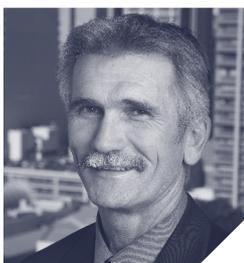
Craig Murrell



Dawson Wilkie



Graeme Wills



Ian Woodyard



## CASSOWARY COAST REGIONAL COUNCIL

### Cassowary Coast Core Asset Management Plans

Cassowary Coast Regional Council has internally delivered Core Asset Management Plans for all asset its classes. This project had a strong focus on collaboration, shared knowledge and fit for purpose outcomes that add value. The core plans were developed with Council and the community as the audience and simplicity in mind. Ultimately it's the Council and Community who drive Council's direction so ensuring the plans provided good high level information to inform decision making and invite a more detailed conversation was the objective. Often asset management plans can have complexity for complexity's sake, complexity that results in limited tangible benefit to the community. With limited resources Council has focussed its energy on where the Asset Management Planning process will add the greatest value to its community. Throughout the process Council's risk management maturity has increased significantly as has the general understanding of the organisations financial sustainability and core objectives.



## GLADSTONE REGIONAL COUNCIL

### Sewer Manhole Rehabilitation Program

In 2019, Council investigated options for sewer access chamber rehabilitation to find a method that was the least invasive and most cost effective. The most appropriate method for completion of this work was decided to be the PVC lining method provided by McRoberts contracting services of Perth, Western Australia, which delivered good project outcomes for Council.



## LOGAN CITY COUNCIL

### The ultimate airtask: the Greenbank Reservoir Complex renewal

While many asset renewal projects are challenging, Logan Water faced a unique problem. How do you work on water, in a confined space, 35m in the air, surrounded by electromagnetic fields – all while maintaining great customer service to 54,000 people?

Logan Water achieved this and more during a \$7m upgrade of the Greenbank reservoir Complex at Hillcrest. Underpinned by Logan Water's new asset optimisation approach, three reservoirs including Logan's iconic 'Wineglass', a major pump station and a water treatment facility were 'future proofed'. The project also realised \$50,000 in annual operational cost savings and provided safer access for operators.



## MACKAY REGIONAL COUNCIL

### Mackay Regional Council - Civil Operations Unsealed Road Maintenance

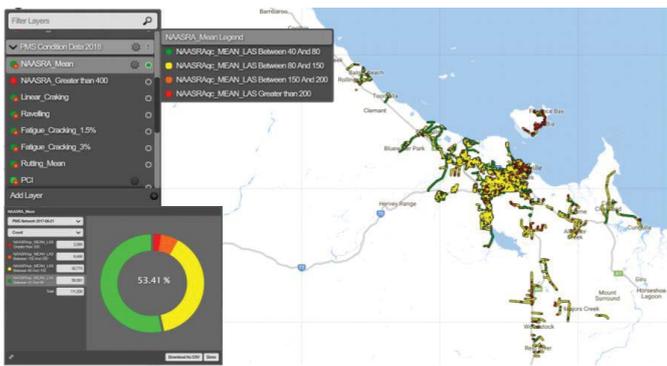
The Mackay region has 915kms of unsealed roads that provide for the safe and efficient transport of people, goods and services for both residents and a diverse range of industries including, agriculture, mining and tourism.

Council has managed its unsealed road network using a best practice asset management approach since 2008. The approach provides a consistent method to managing the maintenance requests and expectations of the rural road users while at the same time optimising annual maintenance budgets.

Based on strategic asset management principles, Council's approach involves the monitoring of defined service levels of surface and pavement conditions. This is achieved through regular inspections of the unsealed road assets and the scheduling of maintenance to be undertaken when the surface and pavement conditions meets or exceeds the assigned condition service level interventions.

Over the last eleven years Council has continued to refine its Service Delivery Model by investing significant effort to review, analyse and improve its approach to the delivery of unsealed road surface condition and gravel pavement services.

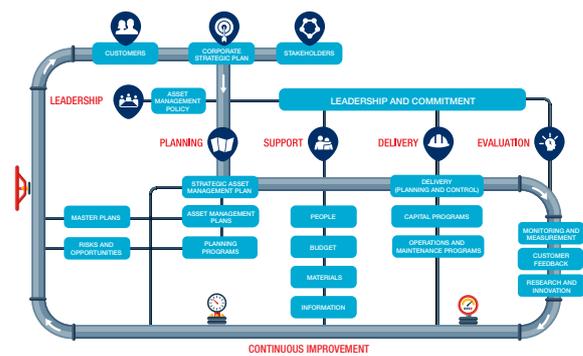
Improvements achieved include reducing annual road deterioration by 55%, maintaining an average gravel coverage by length of 91%, better performing roads in wet weather and securing a 50% increase to the annual unsealed roads maintenance budget over the last three years.



## TOWNSVILLE CITY COUNCIL, PAVEMENT MANAGEMENT SERVICES, YOTTA

### Pavement Advancement Program

Townsville City Council has been under growing pressure to deliver greater levels of service to the community while at the same time having to combat growing financial challenges. The team set out to find an approach that incorporated a scientific pavement management methodology and the use of multiple data sets, already available to the council. As data collected included video data, TCC look to gain some operations efficiency by utilising video data collected to perform desktop validation. The consensus view was that this approach needed to be available across councils in a format that was easy to consume across stakeholders.



## UNITYWATER

### Asset Management Improvement Project

Unitywater's Asset Management Improvement Project is a five-year program of work across two horizons. Horizon 1, a discrete project of work that was delivered in its entirety between 2017 and 2019, focuses on maturing core business activities in line with the International Standard for Asset Management ISO55000. It will be followed by Horizon 2 which will embed the asset management culture and practices under the framework and optimise practices based on performance and risk. Horizon 1 was delivered on time and on budget while producing a quality of outcome above expectations. It is the foundation for Unitywater to achieve international best practice..

**2018** *Winner*

**ASSET  
MANAGEMENT  
MACKAY REGIONAL  
COUNCIL**

**Mount Pleasant No.1  
Reservoir Refurbishment**





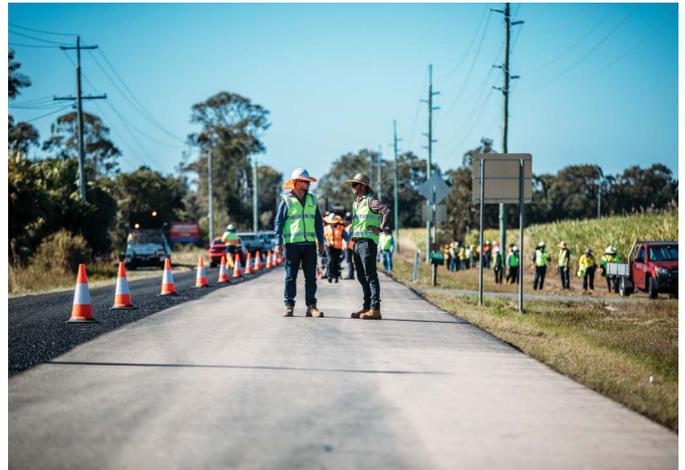
#### **CITY OF GOLD COAST**

##### **Arundel Wetlands Collaboration**

Recently completed works within the Arundel Section of the Coombabah Lakelands Conservation Area, represents an atypical collaboration between the development industry and the City of Gold Coast. The collaboration was a result of a developer needing to manage their stormwater discharge and Council owning the adjacent property (Arundel Section) that required significant remediation.

The collaboration between Council officers and the developer's representatives, based on the outcomes of community consultation, sought to achieve an integrated and best practice solution. As a result the City and developer entered into an infrastructure agreement, permitting the use of the Arundel Section to deliver their stormwater and recreation infrastructure obligations required as part of their development application. The infrastructure agreement provided a high level of transparency as approved civil and landscape drawings, cost estimates and reporting requirements were included within the infrastructure agreement. As a result engaged parties were on the same page and moving in the same direction.

This was an opportunistic and cost effective decision by the City and there were multiple Environmental, Social and Economic benefits.



#### **CITY OF GOLD COAST AND FULTON HOGAN**

##### **Gap Graded Crumb Rubber Asphalt Demonstration Project**

GGA14(CR) is a wet-blended Gap Graded Crumb Rubber Asphalt Mix developed by Fulton Hogan Infrastructure Services, Northern Region. The crumb rubber binder was developed by SAMI Bitumen Technologies. In an Australian first, Fulton Hogan - partnering with the City of Gold Coast - has effectively trialed, tested and successfully applied 500 tonnes of the new asphalt technology, Gap Graded Crumb Rubber Asphalt GGA14(CR), on two of their projects in Queensland.



## **MURWEH SHIRE COUNCIL**

### **Park Upgrade – Graham Andrews Park, Charleville**

The Graham Andrews regeneration project has stimulated much greater usage of the parklands. Recreational walkers and cyclists frequent the park, the Park Fun-Run has recently started and the local triathlon incorporates the parkland into its circuit. The abundance of native bird life is creating interest from bird-watching groups and it is rewarding to see the number of families and groups utilising the park, especially on weekends. It has become the heart of Charleville's recreational programs and brought many people together who would otherwise remain isolated by drought.



## **MORETON BAY REGIONAL COUNCIL**

### **MBRC Standard Drawings Suite - Fauna Movement Infrastructure**

Moreton Bay Regional Council (MBRC) has developed a suite of standard drawings for integrating fauna movement infrastructures into roads and other linear infrastructure projects.

Linear infrastructures cause significant and widely permeating effects on natural systems because they fragment,

degrade and remove wildlife habitat. This suite of standard drawings provides technical specifications for the design and construction of fauna movement infrastructure to help improve road safety for drivers and wildlife. Wildlife -vehicle collisions affect human safety, property and wildlife and the cost to society can be high.

MBRC is the first jurisdiction in Australia to develop a suite of standard drawings which sets out technical specifications for fauna movement infrastructure. These standard drawings will help to build and manage our roads and linear networks in a way that is as good for biodiversity as it is for people.



## **MORETON BAY REGIONAL COUNCIL - ENGINEERING CONSTRUCTION MAINTENANCE**

### **Pine Rivers Park - Riverbank Stabilisation**

Council has embarked on a project to stabilise an eroding section of riverbank at one of Strathpine's most popular public outdoor spaces - Pine Rivers Park. The park is a destination for local events and family fun and plays an important role as a habitat for native animals and in the health of the local ecosystem.

During the major flood event in 2011, the river experienced severe bank erosion where a 340m section of the

embankment washed away. The embankment depth has been disappearing at a rate of 1.1-1.5m/year however over the past few months this rate has had a fivefold increase.

This project will discuss how council is applying a soft engineering approach to reinforce the embankment through reshaping, timber piles and revegetation to preserve the riverbank into the future.

2018 Winner

## ENVIRONMENT & SUSTAINABILITY

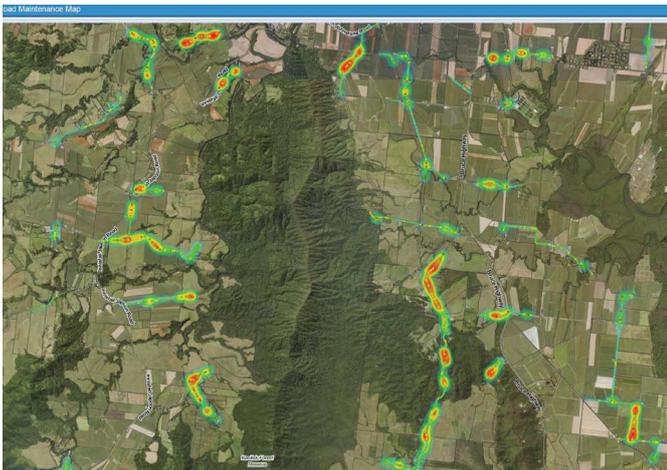
### LOCAL GOVERNMENT ASSOCIATION OF QUEENSLAND

QCoast2100 Program



# INNOVATION

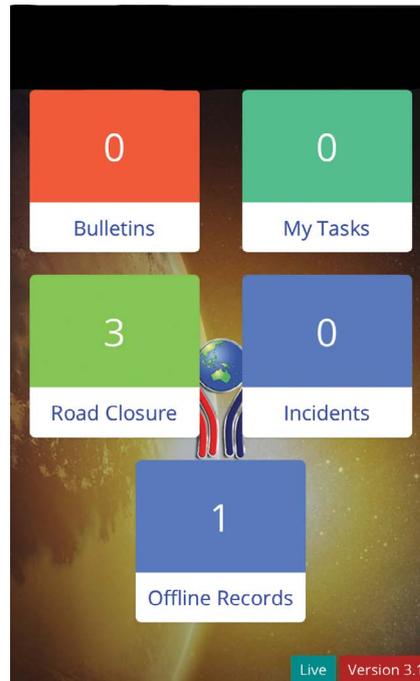
# NOMINEES



## CASSOWARY COAST REGIONAL COUNCIL

### Cassowary Coast Unsealed Road Management System

Cassowary Coast Regional Council has developed a spatial database that manages the inspection and prioritisation of unsealed road grading across its 550km unsealed road network. Unsealed roads are one of the most important issues for ratepayers as they provide access that supports the local agriculture industries of Bananas, Cane and Cattle. The system provides a network management tool and utilises data from ARRB roughometers and collates and processes this data into dashboards, thematic and heat maps, and road specific reports. The system uses automated data processing to enable staff to focus on their key duties and not on data management and removes a large amount of ambiguity that can come from visual inspection and manual prioritisation. The system is delivering optimised services to the community and is providing supporting information to ensure Council's road network remains sustainable.



## CENTRAL HIGHLANDS REGIONAL COUNCIL

### Guardian IMS Emergency Management Software Implementation

Central Highlands Regional Council in partnership with QIT Plus is leading the way as the first Queensland council to go live with emergency management software Guardian IMS. Council announced it was implementing and testing the software in early 2019.

Of significance to Central Highlands Regional Council, other than the entire package of Guardian IMS, is the Road Closure module. This software package Road Closure module in partnership with Central Highlands Regional Council, QIT Plus, Department of Transport and Main Roads and other local council's takes Road Closures to new levels. The ability to publicise and manage any form of road closures, being planned or unplanned, from the field directly to public dashboards and websites in near real time. This functionality hugely increase the up-to-date information available to the community, saves on resources, as well as providing real time decision making intelligence to Emergency Service providers.



## **CITY OF GOLD COAST**

### **Gold Coast City Transport Strategy 2031 Mid-Life Review**

The Gold Coast is unlike other cities. Our growing population, vibrant tourism industry and multiple centres make our transport challenges unique.

The Gold Coast has grown rapidly over the past 50 years to become the sixth largest city in Australia. We also host more than 13 million visitors each year, putting increased pressure on the city's infrastructure.

Why is transport so important to the Gold Coast? Our city is still growing. By 2041, the Queensland Government forecasts the Gold Coast's population is projected to reach 943,700 people, an increase of 64 per cent on the 2016 population of 575,303. More people mean higher demand on the transport system. Getting transport right is essential to protecting our Gold Coast lifestyle.

In 2013, following extensive community consultation, the City released the Gold Coast City Transport Strategy 2031 (Transport Strategy). The Transport Strategy aims to change the way we move around our city. It is our blueprint for the Gold Coast's transport network over the next 20 years, guiding decisions and funding to ensure we deliver maximum benefits for our city, protect our lifestyle and keep our economy strong.

A mid-life review of the Transport Strategy was undertaken after five years of operation, commencing in July 2018 and concluding in April 2019. The review was undertaken to assess the progress, accomplishments and learnings to date in implementing the Transport Strategy.

This submission to the IPWEAQ Excellence Awards was progressed to demonstrate how the review of the Transport Strategy embodied innovation, both in its methodology, and in how its findings respond to current issues and potential major disruption in the transport sector over the next 15 years.



## **CITY OF GOLD COAST COUNCIL**

### **Palm Beach Shoreline Project**

Historically, Palm Beach is one of the Gold Coast's most vulnerable beaches to the threat of coastal erosion. As part of the City of Gold Coast's (City) Ocean Beaches Strategy 2013–2023, the City is delivering the Palm Beach Shoreline Project to enhance coastal protection at Palm Beach. The adopted solution is a two-phase project incorporating sand nourishment (Phase 1) and construction of an artificial reef (Phase 2). Phase 1 was completed in September 2017 and saw the successful nourishment of Palm Beach with more than 470,000 m<sup>3</sup> of clean sand. Construction of the Phase 2 artificial reef is scheduled for completion in 2019.



## CITY OF GOLD COAST

### Successful development of high-performance asphalt mix design, specifications and field trials for Gold Coast 600 Race Track Street Circuit

Following the first V8 Supercars race in 2009, the City of Gold Coast (City) became aware of the need to create high performance asphalt surfacing to withstand the V8 Supercars extreme shear forces.

Between 1991 and 2008, the City hosted annual Indy 300 race events on its Surfers Paradise street circuit. From 2009, the City began hosting the annual Gold Coast 600 (GC600) events which have since played a pivotal part of Australia's V8 Supercars Championship series.

The transition from the Gold Coast Indy 300 to V8 Supercars required the City to work with the asphalt industry to develop high performance asphalt mixes which could withstand the unprecedented shear forces of the V8 Supercar with tire temperatures exceeding 100°C.

The Surfers Paradise GC600 street circuit is approximately 2.9km in length with 15 bends, 102 lap and total length of 300 Km. The GC600 event has various races staged over a three-day weekend with the final endurance race held on Sunday.



## MORETON BAY REGIONAL COUNCIL

### Artificial Intelligence – Road Defects Challenge

Roads represent Council's largest asset with a total value of over two billion dollars with the ongoing management and maintenance of roads having a material impact on Council's financial health.

The challenge was "how could we use vehicles that touch our roads every week to do the scanning for us and deliver timely and accurate road condition data"?

A pilot project began in January 2019 to mount a consumer grade dashcam, small computing device, GPS and 4G modem to the dashboard of a Council garbage truck. Video footage is transmitted to the cloud where Machine Learning algorithms are applied to identify various elements such as potholes, cracking, line markings, signs etc. This data is made available via an API and fed into Council's Asset Management system.

Road defect records are created in near real time within our asset management system. Data for potholes includes location, severity, and whether it is new, existing or repaired. This then creates, updates or closes road defect records.

Benefits include

- Accurate and up to date pothole data driving existing Council repair processes
- High severity potholes will trigger a priority work order automatically to ensure these are dealt with urgently.
- This data is also aggregated to provide accurate and timely road asset condition information allowing Council to intervene where a road is wearing too quickly thus avoiding or delaying expensive road replacement projects.
- Providing the community with up to date pothole mapping saves them the time to report potholes.



## **QUEENSLAND URBAN UTILITIES**

### **Portfolio & Program Management Transformation Project**

Queensland Urban Utilities is implementing a new Program Management Approach (PMA) Operating Model to transition from the current asset centric to a customer centric organisation. The Portfolio and Program Management Transformation project is the cornerstone in the new operating model where it planned and enabled efficient capital delivery and enhanced procurement strategies to deliver QUU's future five-year capital investment of \$1.5billion. The new operating model spans across Stages one to five of QUU's capital delivery lifecycle which includes planning, procurement operations and delivery functions. This Operating model aims to provide a new generation of industry leading capital delivery performance in the water industry.

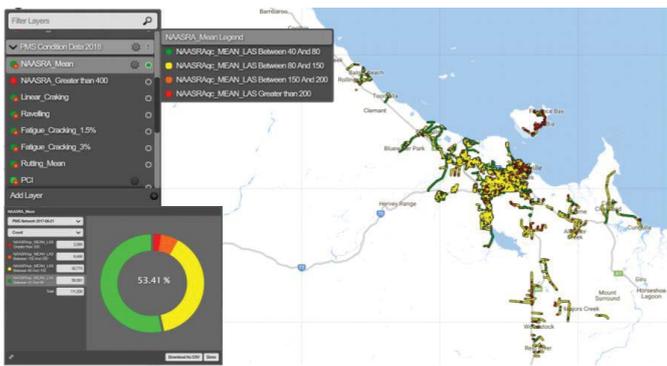


## **SUNSHINE COAST REGIONAL COUNCIL**

### **Sunshine Coast Council Integrated Transport Strategy**

Following amalgamation of Sunshine Coast Councils in 2008 with the deamalgamation of Noosa Shire Council in 2014, it was necessary to re-write the initial Sustainable Transport Plan developed in the early days of Sunshine Coast Council.

With the learnings gathered from around ten years of amalgamation into a much larger entity and faced with an ongoing high level of growth, it was important that the new Integrated Transport Strategy should meet that challenge and be innovative in doing so.



## TOWNSVILLE CITY COUNCIL, PAVEMENT MANAGEMENT SERVICES, YOTTA

### Pavement Advancement Program

Townsville City Council has been under growing pressure to deliver greater levels of service to the community while at the same time having to combat growing financial challenges. The team set out to find an approach that incorporated a scientific pavement management methodology and the use of multiple data sets, already available to the council. As data collected included video data, TCC look to gain some operations efficiency by utilising video data collected to perform desktop validation. The consensus view was that this approach needed to be available across councils in a format that was easy to consume across stakeholders.

**2018** *Winner*

**INNOVATION**

**CITY OF GOLD COAST**

**GC2018 Travel Demand Management Program**





**CITY OF GOLD COAST COUNCIL**

**Palm Beach Shoreline Project**

Historically, Palm Beach is one of the Gold Coast’s most vulnerable beaches to the threat of coastal erosion. As part of the City of Gold Coast’s (City) Ocean Beaches Strategy 2013–2023, the City is delivering the Palm Beach Shoreline Project to enhance coastal protection at Palm Beach. The adopted solution is a two-phase project incorporating sand nourishment (Phase 1) and construction of an artificial reef (Phase 2). Phase 1 was completed in September 2017 and saw the successful nourishment of Palm Beach with more than 470,000 m<sup>3</sup> of clean sand. Construction of the Phase 2 artificial reef is scheduled for completion in 2019.



**QUEENSLAND URBAN UTILITIES & ABERGELDIE COMPLEX INFRASTRUCTURE / ODAYASHI CORPORATION (AOJV)**

**Kenmore Jindalee Cross-River Water and Sewer Pipeline**

Queensland Urban Utilities (QUU) engaged the services of Abergeldie Constructions in a joint venture with Obayashi Corporation Australia (AOJV) for the construction of a service tunnel and pipe installation works beneath the Brisbane River in the western suburbs.

The Kenmore Jindalee Cross-River Pipeline project was initiated following damage to the Jindalee trunk water main and Fortrose sewer rising main. The Jindalee trunk water main river crossing was damaged in the Brisbane River flood in January 2011. This caused a major supply outage to approximately 950 customers in Jindalee. Fortrose sewer main was exposed and left unsupported on the northern bank of the Brisbane River following a land slip in May 2009. The land slip affected an area just upstream of the Centenary Highway Bridge.

The main objective for this project was to ensure continuity and security of supply by constructing water and sewer diversion pipelines to replace the damaged sections of the network. The pipelines are 560 metres long and was constructed through a utility tunnel ten (10) metres below the river bedrock and fifty (50) metres at the deepest point.

This new facility, constructed within the one corridor, provides a more flood resilient solution than the existing infrastructure.



**TOWNSVILLE CITY COUNCIL**  
**Townsville CBD Utilities Upgrade**

BMD Constructions was engaged as managing contractor to upgrade the water and wastewater infrastructure in the Townsville CBD. As one of the biggest utility upgrades in Townsville, BMD successfully installed approximately 20 kilometres of water and sewerage pipework, replacing mains up to 60 years old.

The rolling program had a strong focus on maximising opportunities for local businesses, achieving 92% of the total hours of work delivered locally, and 96.2% of the project's \$55 million budget spent locally and more than 300 jobs created.

BMD's extensive experience in engineering and services infrastructure construction led to significant cost savings through the redesign of a number of installations, with the project ultimately delivered one year ahead of schedule.

**2018** *Winners*

**INNOVATION & SUSTAINABILITY IN WATER – PROJECTS OVER \$5 MILLION**

**DEPARTMENT OF NATURAL RESOURCES, MINES & ENERGY (DNRME) AND LOCAL GOVERNMENT ASSOCIATION OF QUEENSLAND (LGAQ)**

**Queensland Water Regional Alliance Program (QWRAP)**



**INNOVATION & SUSTAINABILITY IN WATER – PROJECTS UNDER \$5 MILLION**

**LOGAN CITY COUNCIL**

**Sun and Salt:  
 Logan's water quality solution**





## ROAD SAFETY

# NOMINEES



### BRISBANE CITY COUNCIL

#### Move Safe Brisbane Pedestrian Safety Review

The Move Safe Brisbane Pedestrian Safety Review was done to identify opportunities to improve pedestrian safety. The review used a web-based approach to invite Brisbane community feedback regarding locations where they believed road safety could be improved. In a 1,343 square kilometre city with more than 5,700km of local government roads, this was a significant consultation exercise. The feedback was utilised alongside Queensland Police Service crash data, Council pedestrian and traffic counts and traffic speed data to identify and prioritise pedestrian safety projects. Pedestrian safety improvement projects implemented following the review include speed reductions, scramble crossings and a new signalised pedestrian crossing.



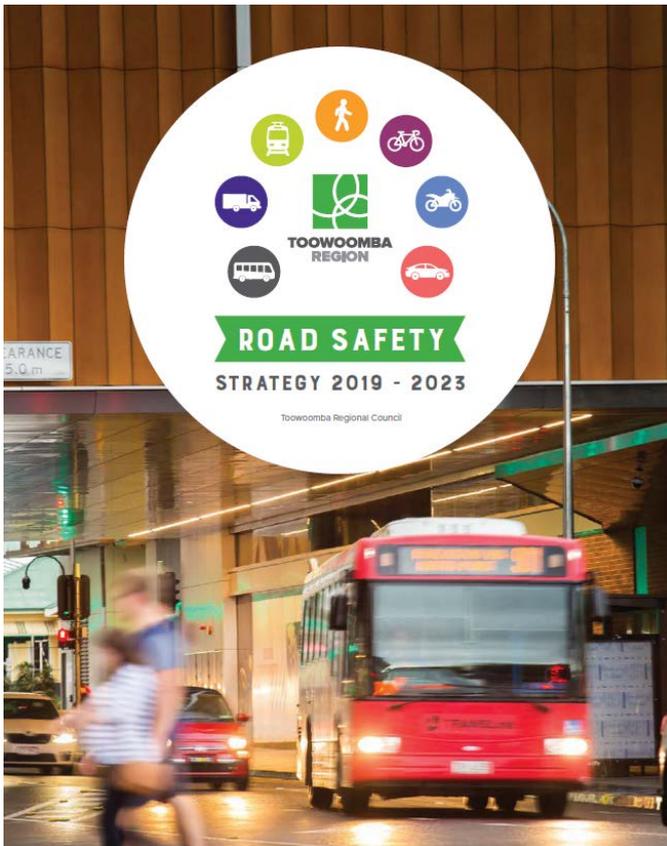
### CITY OF GOLD COAST

#### The Crash Investigation Alliance

The vision of the Gold Coast Road Safety Plan 2015 (GCRSP) is to reduce crashes, save lives and prevent serious trauma on the Gold Coast transport network. This five year plan outlines actions to reduce the number of fatal and serious injury (FSI) crashes on our roads by at least 30 per cent by 2020.

Current performance indicates that the 30 per cent reduction is unlikely to be achieved and the incidence of fatalities and serious injuries on Gold Coast roads is rising. This is consistent with national trends.

The Crash Investigation Alliance (CIA) is a road safety initiative established by the City of Gold Coast (the City) and Queensland Police Service (QPS) to investigate FSI crashes and monitor road trauma on the City's local road network. The CIA is an example of a road safety initiative that is integrated into 'business as usual' activities between local and state government. The CIA jointly provides knowledge, skills and services in road safety, traffic engineering, police intelligence and enforcement to improve road safety on the local Gold Coast road network.



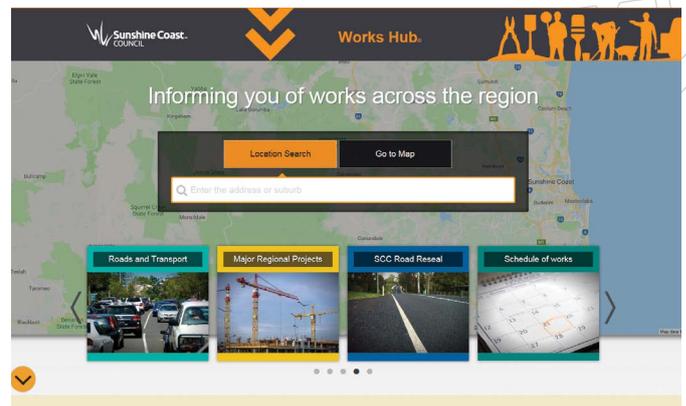
## TOOWOOMBA REGIONAL COUNCIL

### Toowoomba Region Road Safety Strategy 2019-2023

Toowoomba Regional Council's Road Safety Strategy provides a local framework to enable Council, key road safety stakeholders and the community to actively participate in improving road safety within the region.

The Strategy is underpinned by the 'Safe System' approach to road safety, whereby all elements of a transport system (user, mode and infrastructure) interact appropriately to create a safe and forgiving environment.

The Strategy addresses our key challenges and outlines a range of actions with proven crash-reduction benefits, developed consultatively with key regional road safety stakeholders, to realise our vision of reducing deaths and serious injuries on our roads.



## SUNSHINE COAST COUNCIL

### Works Hub

Works Hub is council's new free, accessible online visual mapping tool that provides real-time information about current and scheduled works and closures across the Sunshine Coast road network.

The Works Hub portal is updated every two minutes, providing road users with reliable and continual information about road works and closures. Users can enter their address or suburb into the search function or they can search on an aerial map and zoom to the relevant section (map view or satellite view).

It is accessible 24 hours a day 365 days a year with up to date and accurate information regarding any works such as Road works, road closures, road detours and local events that may impact the road network.

**2018** *Winner*

**ROAD SAFETY**

**BRISBANE CITY COUNCIL**

**Speed Awareness Monitors**



## PROJECTS UNDER \$1MIL

## NOMINEES



### CASSOWARY COAST REGIONAL COUNCIL

#### Cardwell Water Quality Improvement Project

The Kennedy Bore Project was established to reduce water quality issues experienced during heavy rainfall events in the Meunga Creek catchment in the Cardwell Water Supply Scheme. The project consisted of the installation of real time turbidity monitoring equipment that analyses turbidity within the Meunga Creek intake pipeline, automated valves that allow for flow control, a new bore and pumping equipment at Kennedy and the construction of a small building and installation of water chlorination equipment.

Overall the project has significantly improved the drinking water quality for customers and reduced the risk of high turbidity from the Meunga Creek catchment.



### MORETON BAY REGIONAL COUNCIL - ENGINEERING CONSTRUCTION MAINTENANCE

#### Pine Rivers Park - Riverbank Stabilisation

Council has embarked on a project to stabilise an eroding section of riverbank at one of Strathpine's most popular public outdoor spaces - Pine Rivers Park. The park is a destination for local events and family fun and plays an important role as a habitat for native animals and in the health of the local ecosystem.

During the major flood event in 2011, the river experienced severe bank erosion where a 340m section of the embankment washed away. The embankment depth has been disappearing at a rate of 1.1-1.5m/year however over the past few months this rate has had a fivefold increase.

This project will discuss how council is applying a soft engineering approach to reinforce the embankment through reshaping, timber piles and revegetation to preserve the riverbank into the future.



## **NOOSA COUNCIL**

### **Noosa Main Beach Boardwalk**

The “Look & Feel” of the Noosa Main Beach has a significant impact on the reputation of the Noosa region, as it is one of the top five beaches in Australia.

The Noosa Main Beach Boardwalk renewal project was developed by Council in response to the community, business, social and environmental needs of the site. This space is a hub of activity, where the community, local business and the natural environment come together to enhance the high-profile tourism drawcard of Noosa Main Beach, which in turn supports a regional tourism focus and wider local economy.



## **SOUTHERN DOWNS REGIONAL COUNCIL / JOHN SIMPSON & HENRY OSIECKI**

### **HorsePower Sculpture**

To construct a monument to celebrate Warwick as the “horsepower” capital of Australia, which will showcase the importance of equestrian-related activities throughout the generations, as well as linking with the motorised horsepower activities at Warwick’s renowned Morgan Park Raceway, the historic Leyburn Sprints and Southern Downs Steam Rail-The Iron Horse.



## **SOUTHERN DOWNS REGIONAL COUNCIL / STANTHORPE CHAMBER OF COMMERCE**

### **Stanthorpe Big Thermometer**

Southern Downs Regional Council partnered with the Stanthorpe Chamber of Commerce in a joint venture to build a monument to celebrate Stanthorpe being Queensland's coldest town. The Chamber of Commerce engaged a builder to construct the Big Thermometer, while Southern Downs Regional Council undertook the associated site works including footpaths and additional parking area, particularly designed for long-vehicles.



## **SUNSHINE COAST COUNCIL**

### **The Esplanade Pavement Rehabilitation Project, Bulcock Beach**

The Esplanade, Bulcock beach is a high profile busy tourist road on the Sunshine Coast that required rehabilitation of failed pavement. Due to site conditions and constraints the poor pavement was removed with the subbase replaced with fibre reinforced concrete topped with two layers of asphalt which included a geogrid interlayer.

## PROJECTS \$1MIL - \$2 MIL

## NOMINEES



### GLADSTONE REGIONAL COUNCIL

#### Kirkwood Road and Lavender Boulevard Intersection Upgrade

The intersection of Kirkwood Road and Lavender Boulevard was identified as a Black Spot location due to a history of crashes, resulting in medical treatment or hospitalisation. The project involved signalling the intersection to separate the through and right movements, which were causing the crashes. Through the project, cost savings were identified by combining an adjacent project, which involved rectifying pavement and guardrail undulation near a Bebo Arch on Kirkwood Road. This also provided the least impact on the community. The project was completed on time despite have a delayed start and has provided the community with a significantly safer intersection.



### GOONDIWINDI REGIONAL COUNCIL AND PROTERRA GROUP

#### Goondiwindi Levee Bank Restoration Project

In 2017 Tropical Cyclone Debbie devastated QLD and lead to major flooding in many regional areas. During this event the McIntyre River through Goondiwindi rose and fell quite rapidly leaving substantial damage to our river banks and levee structures protecting the town.

Goondiwindi Regional Council received REPA and Betterment funding from the QLD Reconstruction Authority to the value of \$1.1M to provide long term repairs to the damaged areas of this critical infrastructure. This nomination details the process towards full restoration which was completed on 30th June 2019.



## **IPSWICH CITY COUNCIL**

### **Ipswich Street, Grandchester - gravel road sealing**

Ipswich City Council conducted a gravel road sealing project on Ipswich Road, between Rosewood-Laidley Road and George Street, Grandchester. The 900m length of road was upgraded from a 5m wide gravel road to a 9m wide sealed road (including shoulders) with a change to available traffic movements to increase road user safety.

**2018** *Winner*

**PROJECTS UNDER  
\$2 MILLION**

**KOWANYAMA  
ABORIGINAL SHIRE  
COUNCIL**

**Kowanyama Social  
Precincts**



**2018**

*Project of the year*

**LOGAN CITY COUNCIL**

**Sun and Salt:  
Logan's water quality  
solution**



## PROJECTS \$2MIL - \$5 MIL

## NOMINEES



### BRISBANE CITY COUNCIL

#### Bracken Ridge BMX facility

As part of Brisbane City Council's commitment to creating new lifestyle and leisure opportunities, the Bracken Ridge BMX facility was opened in September 2018. A collaborative approach was taken to deliver the largest track of its kind in Australia. The facility is located adjacent to Council's Bracken Ridge Skate Plaza and Emily Seebohm Aquatic Centre, providing an extensive destination recreational precinct on Brisbane's northside.



### CITY OF GOLD COAST

#### Tugun to Bilinga Oceanway

The Gold Coast Oceanway vision aims to achieve a 36 kilometre shared cycle and pedestrian pathway along the coastline from the New South Wales border to the Gold Coast Seaway.

The majority of Oceanway will be situated along the iconic Gold Coast beachfront and will provide a facility for pedestrians, recreational cyclists, and other users of personal mobility devices. It will be fully separated from general motor traffic.

The Tugun to Bilinga Oceanway project was previously approved by the City in 2012, however significant opposition and public protests from stakeholders associated with adjacent land holdings resulted in the cancellation of the project.

With the support of the local Councillor, City officers conducted a major program of face to face consultations with directly affected stakeholders during the design phase concluding in June 2018. Funding of \$2 million to construct the Tugun to Bilinga Oceanway was approved in the 2018-19 City Budget and matched by \$2 million in the 2018-19 State Government budget.

Construction was completed in December 2018, and the pathway was officially opened by the Acting Mayor, Cr Donna Gates, and the Minister for Transport and Main Roads, the Hon Mark Bailey, on 18 January 2019.

This 1.7 kilometre long section of Oceanway along a wide section of the Gold Coast beachfront has proven an outstanding success with visitors and locals alike, allowing them to access key destinations and improve their fitness, all while taking in the City's iconic coastline and ocean views.



## **IPSWICH CITY COUNCIL**

### **Springfield Central Library**

The Springfield Central Library was the first new library to be opened in Ipswich in over 20 years. It is a library for the digital age, with new hands-on experiences designed to delight and inform its membership base. It promotes digital literacy and is in line with the Smart City initiatives of Ipswich City Council.

The library is redefining what library offerings are. In addition to loaning books, it hosts space for virtual reality experiences, 3D printing, HP sprouts (interactive colouring and drawing), interactive projection and an augmented reality sandbox for young and old.

Ipswich City Council is proud of this project, and community interest and the growing membership of the Library demonstrates community excitement and support for the initiative.



## **IPSWICH CITY COUNCIL**

### **Western Ipswich Bikeway**

iGO is Ipswich City Council's master plan for Ipswich's sustainable transport future, which gives emphasis and focus on the provision of infrastructure to support the use of public and active transport options for the community.

The Western Ipswich Bikeway Link (WIBL) forms part of the broader Council Ipswich Bikeway Network Plan which looks to increase safety and connectivity for pedestrians and cyclists across the city. WIBL specifically provides a key link for cyclists and motorists travelling between Western Ipswich and the Ipswich CBD.

Works included the installation of raised priority road crossing points, associated retaining walls, road and kerb and channel works. It received funding through the State Government's Cycle Network Local Government Grants Program.



## NOOSA COUNCIL

### Noosaville Library Refurbishment

The Noosaville Library has the highest level of visitation in comparison to all of Councils other facilities, including the art Gallery, Aquatic Centre and Theater & Conference venue.

Considerable pre-project investigations were undertaken to provide for the key Council Objectives of the Noosaville Library Refurbishment. These were to:

- Significantly extend the life of the asset and minimise the future financial burden of maintenance costs;
- Improve the functionality of the library by adjusting the current inefficient internal layout, and therefore reducing user conflict;
- Ensuring the design and project outcomes are responsive to the needs of the community and library standards; and
- Support an infrastructure project that will directly generate employment and economic activity for the local community throughout the construction phase and beyond.

Clear benefits to the community were achieved through an improved layout, greater access to technology, free access to meeting and training rooms and the addition of a Maker Space. Economic benefits will also be activated by the library's ongoing support of career development, contribution to language and computer literacy and induced economic activity.



## NOOSA COUNCIL

### Peregrine Beach Digital Hub

The \$4million Peregrine Beach Digital Hub is a purpose-built facility designed to house multiple digital companies and individual workers in an open, modern environment suited to collaboration and co-working. The Hub's cutting-edge architecture accommodates a mix of established technology enterprises in private office spaces as well as individual entrepreneurs, digital specialists and technologists operating in a co-working environment.



## QUEENSLAND URBAN UTILITIES

### Upgrade of Thermal Hydrolysis System – CAMBI MK II Upgrade Project

This project provided Queensland Urban Utilities (QUU) with increased ability produce a high quality biosolids product from sewage waste. By increasing the capacity, reliability and maintainability of the system, this upgrade provides enhanced environmental and public health benefits meeting demand now and into the future. The new system exceeds new regulatory requirements and produces attractive by-products that can be on sold.

The project was delivered in conjunction with two other interdependent projects within a limited shutdown time and across a very restricted site. Several obstacles were overcome to ensure that QUU continued providing its essential services during the project progressed.



## TOD CONSULTING; SUNSHINE COAST COUNCIL; ALDER CONSTRUCTIONS; PLACE DESIGN GROUP

### Mooloolaba Walk & Ride Bridge

Mooloolaba Walk & Ride Bridge, a 66-metre-long artistic bridge, incorporating coloured, textured and curved concrete surfaces; joint-free deck for reduced noise and maintenance; and themed night-time lighting.

The bikeway, linking Mooloolaba to Minyama, improves access and safety, reduces traffic congestion and improves the streetscape including landscaping, car parking, lighting and drainage. The overall project outcome provides a significant contribution towards creating a more active, inclusive and sustainable environment for the Mooloolaba community and greater Sunshine Coast region.

TOD Consulting are proud to have worked with Sunshine Coast Council, Alder and Place Design, in collaboration, to achieve this remarkable project.



## **TOOWOOMBA REGIONAL COUNCIL**

### **Pierces Creek Road Upgrade Stage 2**

Stage 2 of the Pierces Creek Road Upgrade Project was jointly funded by the State Government (Transport and Infrastructure Development Scheme, TIDS) and Toowoomba Regional Council (TRC), with a budget of \$3.1 million. The project involved a significant realignment of the road with 40,000m<sup>3</sup> of earthworks required through undulating terrain.

The project was delivered in-house using one of TRC's Construction teams. A challenging project with granite outcrops throughout the road alignment, a shortage of water and a need to maintain traffic access through the site at all times.

The project was delivered on budget over a 11 month period.

**2018** *Winner*

**PROJECTS**  
**\$2 MILLION -**  
**\$5 MILLION**

**SOMERSET REGIONAL COUNCIL**

**Brisbane Valley Rail Trail**  
**(Toogoolawah to Moore)**





## **CASSOWARY COAST REGIONAL COUNCIL**

### **Upgrade of Nyleta Creek Water Supply Scheme**

Nyleta Water Supply Scheme extracts water from Nyleta Creek at an elevation of 110m AHD and distributes it to approximately 1800 connections in the areas of Silkwood, Kurrimine, El Arish, Bingil Bay and Mission Beach. Aside from chlorination and coarse filtration, this supply system has no treatment process.

During heavy rainfall events, turbidity levels within the creek spike causing problems with disinfection of the water. Nyleta Creek is also at the risk of reduced flows late in the dry season. This has meant that the Nyleta Scheme was at a high risk of having to initiate boil water alerts during the wet season and water restrictions during the dry.

Previously, the Nyleta scheme had limited in scheme storage (less than 3.5 ML) which was not enough to ride out these events. Also extraction from Nyleta Creek during the dry season was at risk of breaching its water licence conditions.

In 2008, planning for a second water source began. South Liverpool Creek was identified as being an alternative and Cassowary Coast Regional Council began the process of securing a water allocation to extract water from this water course. In 2013, Council were successfully granted a water allocation for the South Liverpool Creek site. Following a process of planning of site options, in 2013 negotiations commenced to acquire the necessary land for an intake

reservoir on an adjoining hill. Purchase of the reservoir site was completed in 2014, and detailed planning and design then commenced for the new intake facility, intake reservoir and associated chlorination, prefiltration and SCADA control systems.

The construction of the Nyleta reservoir, South Liverpool Creek Intake, the Nyleta filtration system and the Nyleta Chlorinator has been constructed in stages as funding permitted. Council must recognise the support of the state Government who were generous with funding assistance for this project. The first stage of the project involved the construction of the access road to the reservoir site, the bulk earthworks and the construction of the approach water mains. These works were completed in 2015. The second stage works involved the construction of the subbed filtered intake in the South Liverpool Creek and the associated pumping system, the construction of the 3.3ML reservoir and the turbidity analysis equipment and auto-isolation valving. These works were completed by December 2017 before the wet season. In 2018 and early 2019, Council completed the installation of filtration units upstream of the reservoir and chlorine dosing facilities for dosing the reservoir.

Since the completion of these works, the concept of operation has proven successful on all aspects. During periods of high turbidity in the Nyleta Ck source water, the inlet mains are being auto-isolated and supply is provided by the clear water storage in the reservoir. During periods of prolonged turbidity, the South Liverpool Creek sub-bed intake provides an alternative source of supply. The filter beds proving capable of filtering 40NTU creek water to be below 5NTU for supply. SCADA control allows full automation of these systems. For two wet seasons, this system has proven its success and allowed Council to avoid any boil water alerts for the Nyleta Water Supply Scheme Area. Moreover during a period of very low flows in late 2018, Council was able to use the new sub-bed intake as a back up supply when the Nyleta Creek flows were very low.

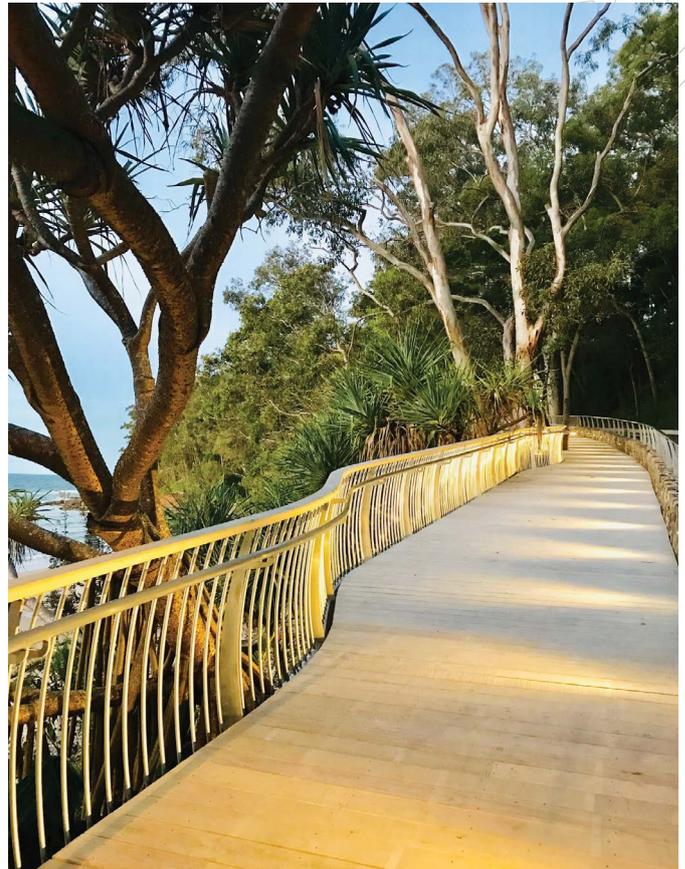


## DEPARTMENT OF TRANSPORT AND MAIN ROADS

### Precast bridge building at Burketown: Beames Brook Bridge Project

A \$8.89 million replacement of Beames Brook Bridge, a critical structure located on the Wills Development Road in the Gulf of Carpentaria, north west Queensland, was successfully delivered in partnership with local councils and the nearby Burketown and Doomadgee Indigenous communities.

The works involved removing the existing temporary steel structure and replacing it with a two-lane permanent concrete bridge to achieve safer, year-round access for communities as well as increased efficiency and safety for freight moving through the area. The project was delivered on budget and ahead of schedule while preserving the Indigenous cultural and environmental significance of the bridge's unique location.



## NOOSA COUNCIL

### Noosa Park Road Boardwalk

Noosa Council has created the iconic \$7.5M Park Road Boardwalk nestled between world famous Noosa National Park and Hastings Street.

The project is a model example of stakeholder engagement, working with environmental and geotechnical challenges, reducing operational costs yet not compromising on creating a world class public asset.

The 400 metre boardwalk is symbolically and positionally a major contributor to Noosa's near Billion dollar tourism industry. The effort in its planning, design and execution has proudly been matched by the public accolades bestowed upon it.



## **TOOWOOMBA REGIONAL COUNCIL**

### **Pittsworth Industrial Precinct Enabling Project (PIPEP) - Gap Road**

The Pittsworth Industrial Precinct Enabling Project (PIPEP) involved the upgrade of Gap Road (the western entry to Pittsworth from the Gore Highway) and its intersection with the Gore Highway to allow for up to PBS3 vehicles, as well as an expansion of the sewerage network to service the Pittsworth Industrial Area.

The upgrade of Gap Road consisted of approximately 2.7km of road widening and overlay from the Gore Highway to Helen Street in Pittsworth. This component was delivered by Council's internal Construction & Maintenance South team.

The upgrade of the intersection of Gap Road, the Gore Highway and Murlaggan Road, consisted of pavement widening to allow for a short auxiliary left turn lane (AUL(s)) and full length Channelised right turn lane (CHR) on the Gore Highway.

This component was also delivered by Council's internal Construction and Maintenance South team. The upgrade to the sewerage network consisted of an expansion to the existing gravity sewer network and construction of the resulting sewerage pumping station and rising main. This involved construction of approximately 1,800 metres of gravity sewer and 2,400 metres of rising main. This component was delivered by Water Project Services under a design and construct contract.

The project was jointly funded by Council and the Queensland Government's Building Our Regions program.

**2018** *Winner*

**PROJECTS  
\$5 MILLION -  
\$10 MILLION**

**TOOWOOMBA  
REGIONAL COUNCIL**

**City Hall Auditorium and  
Annex Refurbishment**





BOARD OF  
**PROFESSIONAL  
ENGINEERS**  
OF QUEENSLAND

## PROJECTS OVER \$10MIL

## NOMINEES



### BRISBANE CITY COUNCIL

#### Telegraph Road Stage 2

The Telegraph Road Stage 2 project was the final stage of works in the Telegraph Road corridor and was officially opened on 7 December 2018. The Stage 2 works included upgrading approximately 2.1 km of two-lane carriageway to four lanes with additional turning lanes at intersections and the removal of 12,000 tonnes of contaminated material to construct a new four-lane, 72-metre bridge over Cabbage Tree Creek, while maintaining a significant local traffic network. The project also had 34 frontline residents, several businesses and two adjacent projects under construction during the works, such as the Gateway Upgrade North (GUN) project.



### CAIRNS REGIONAL COUNCIL

#### Cairns Performing Arts Centre

The Cairns Performing Arts Centre is a state-of-the-art venue that will provide for the cultural and community life of Cairns for the next 50 years. The theatre provides a much enhanced audience experience, accommodates a wider range of local and touring productions, and provides a stage for local talent to hone their skills.

Comprising a 941-seat main auditorium and 400-seat flexible studio theatre, the new facility is complemented by an outdoor stage and amphitheatre at the adjacent Munro Martin Parklands.

These wonderful new facilities are the centrepiece of Council's vision to be the Arts and Culture Capital of the North.



## CITY OF GOLD COAST COUNCIL

### Palm Beach Shoreline Project

Historically, Palm Beach is one of the Gold Coast's most vulnerable beaches to the threat of coastal erosion. As part of the City of Gold Coast's (City) Ocean Beaches Strategy 2013–2023, the City is delivering the Palm Beach Shoreline Project to enhance coastal protection at Palm Beach. The adopted solution is a two-phase project incorporating sand nourishment (Phase 1) and construction of an artificial reef (Phase 2). Phase 1 was completed in September 2017 and saw the successful nourishment of Palm Beach with more than 470,000 m<sup>3</sup> of clean sand. Construction of the Phase 2 artificial reef is scheduled for completion in 2019.



## LIVINGSTONE SHIRE COUNCIL

### Scenic Highway, Statue Bay - Cyclone Marcia Reconstruction Works

In February 2015, Severe Tropical Cyclone Marcia crossed the Queensland coast north of Yeppoon in Central Queensland, causing extensive damage to infrastructure throughout the community. The most severe damage caused to Council's infrastructure was the undermining of the coastal Scenic Highway at Statue Bay and the concurrent failure of the steep escarpment above the road.

The \$25M reconstruction of the road and cliff-face stabilisation has been the most challenging infrastructure project ever undertaken by the Livingstone Shire Council, and has involved:

- construction of a mechanically stabilised embankment with ocean protection wall;
- reconstruction of the road;
- stabilisation of the cliff-face with 15m long soil nails and shotcrete surfacing; and
- the acquisition of volumetric easements within adjacent properties to encompass the ~1,500 soil nails (~19.6 km).

The project, which was significantly funded by Natural Disaster Relief and Recovery Arrangements (NDRRA) funding under the administration of the Queensland Reconstruction Authority (QRA), has transformed a narrow, damage-prone and poorly accessible stretch of coastal road into an expansive and safe multi-user thoroughfare for vehicular and pedestrian traffic alike.



## MAREEBA SHIRE COUNCIL

### Mareeba Airport Upgrade - Stage 1

Mareeba Airport is located approximately 22 nautical miles (10-15 minutes' flying time) west of Cairns International Airport in the Mareeba Shire. Mareeba Airport's origins date back to the Second World War when the entire Mareeba district had strategic military significance and played a major role in the success of the Battle of the Coral Sea campaign.

The airport is now integral to the Queensland economy in terms of aircraft movements, flight training, tourism, industrial precinct facilities, expansion capacity and general aviation in the Far North Queensland Region.

Mareeba Shire Council is undertaking a \$23 million upgrade to the Mareeba Airport through grants of \$10 million from the Australian Government and \$13 million from the Queensland Government. The upgraded Mareeba Airport will provide an alternative to Cairns Airport for activities such as pilot training, aircraft maintenance and general aviation, resulting in catalytic economic benefits for the both the Shire and Far North Queensland.

Stage 1 of the project was completed in early 2019 and includes upgrades to water and transport trunk infrastructure, as well as construction of a new Aviation Industrial Park. The development of the Aviation Industrial Park will see an initial 52 lots available for long-term lease to aviation related businesses and industries. The development provides sealed airside access to all lots, as well as sealed roadways, security fencing and drainage. Sites are serviced by water, sewerage, power and telecommunications.

The second and final stage of the project, which includes upgrade of the runway, taxiways and airfield lighting is presently under construction and is scheduled for completion in October 2019.



## SOMERSET REGIONAL COUNCIL AND GHD PTY LTD

### Somerset Accelerated Bridge Replacement Program

Somerset Regional Council's Accelerated Bridge Replacement Program has been the largest and most complex construction project delivered by Council to date.

The devastating 2011 and 2013 South-East Queensland flood events resulted in over \$150m worth of damage to vital road and bridge infrastructure throughout the Somerset region. Impacts to local communities, businesses and freight transport routes were extensive.

Somerset capitalised on the flood events to accelerate its bridge replacement program, developing and deploying a robust transport infrastructure rebuilding program. Over the last eight years, Council has delivered 60 reconstructed bridges, equating to more than a \$40 million spend on vital transport infrastructure.

Of this spend, Council has been successful in securing more than 50% of this value in funding grants. Post-flood restoration, Council's successful applications to replace 22 bridges under the Australian Government's Bridges Renewal Program make it the most successful local government in Australia in securing funded projects under that Program.

Council has delivered a landmark infrastructure restoration project for Somerset and broader South-East Queensland community. Council has delivered 100% of all bridges damaged by floods and is on track to complete all bridge works by 2020, six years ahead of schedule.



## **TOOWOOMBA REGIONAL COUNCIL**

### **Mort Street and Griffiths Street Upgrade Projects**

The Mort and Griffiths Street Upgrade Projects were constructed by Toowoomba Regional Council (TRC) day labour crews with internal project management resources. The design for Mort Street was undertaken by GHD, while Griffiths Street was designed by the Harrison Infrastructure Group (HIG) in partnership with SMEC. The Mort and Griffiths Street upgrade projects reconstructed and upgraded over 3.5km of critical road network. Construction work commenced on Mort Street June 2017 and both projects were practically complete by late December 2018 and officially opened on 22 March 2019.



## **TOWNSVILLE CITY COUNCIL**

### **Townsville CBD Utilities Upgrade**

BMD Constructions was engaged as managing contractor to upgrade the water and wastewater infrastructure in the Townsville CBD. As one of the biggest utility upgrades in Townsville, BMD successfully installed approximately 20 kilometres of water and sewerage pipework, replacing mains up to 60 years old.

The rolling program had a strong focus on maximising opportunities for local businesses, achieving 92% of the total hours of work delivered locally, and 96.2% of the project's \$55 million budget spent locally and more than 300 jobs created.

BMD's extensive experience in engineering and services infrastructure construction led to significant cost savings through the redesign of a number of installations, with the project ultimately delivered one year ahead of schedule.



## **WINTON SHIRE COUNCIL AND PEAK SERVICES**

### **Resurrection of the Waltzing Matilda Centre, Winton, Queensland**

The rebuilding of the Waltzing Matilda Centre was a project of major national significance, funded collaboratively by Winton Shire Council and Queensland and Australian Governments. Supported by project management principles in the public works arena, delivery of a \$24M highly architectural project with an integrated world class museum experience in an outback Queensland town.

**2018** *Winner*

**PROJECTS OVER  
\$10 MILLION**

**BUNDABERG REGIONAL  
COUNCIL**

**Bundaberg Region Multi-  
use Sports and Community  
Centre (Multiplex)**





Queensland

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