

State Infrastructure Plan

Part B: Program – 2018 update





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Foreword

Earlier this year, Queensland's population surpassed five million people and it remains one of the fastest growing populations in the nation. For our five millionth Queenslanders, baby Elizabeth, and for all of us that population milestone represents a time of fantastic opportunity. It also presents government with the challenge of finding ways to move people around our great state, to educate our children, provide health care and economic opportunities.

The State Infrastructure Plan is one of the ways the Palaszczuk Government is addressing that challenge. Through it we aim to coordinate the delivery of the right infrastructure, at the right time and in the right place, to the benefit of all Queenslanders.

The Queensland Government will deliver economic opportunities to Queenslanders across the state over the next four years with Queensland's biggest infrastructure budget since the 2011 flood recovery effort, with a total of \$45.8 billion to be spent on infrastructure, an increase of \$3 billion from last year.

In this annual update of the State Infrastructure Plan Part B: Program, we outline the \$11.6 billion infrastructure investment in 2018–19, which will support up to 38,000 jobs. This is the big picture for our state's infrastructure investment and gives industry the certainty and confidence to invest and grow.

Powered by innovation, Queensland's economy continues to diversify as we encourage and support both traditional and emerging sectors of our state economy like advanced manufacturing, defence and aerospace industries, our bioeconomy including biofuels, innovation in health care, agriculture, tourism, transport and education services. Making Queensland an attractive place to invest in these high-growth industries has flow on benefits for our entire economy.

It is vital we improve how Queensland's regions and cities are connected. The Queensland Government is ensuring people and freight can quickly get to where they are going, we are creating a turn-up-and-go transport system in the south east corner via Cross River Rail, and we are optimising port activity and integration with other freight transport modes in Queensland's regions.

We are building strong regions throughout Queensland by funding and facilitating both small and large scale regional infrastructure through programs such as Building our Regions, which has already allocated \$225 million across 174 projects in 62 local government areas, supporting the creation of 1762 jobs.

Building our Regions is also funding the Transport Infrastructure Development Scheme worth \$150 million and this program is having a significant impact in Aboriginal and Torres Strait Islander Communities where primary access infrastructure is being upgraded.

We are invested in improving liveability for communities regardless of location, ensuring access to high-quality health, education and social services. Our government is delivering the Building Better Hospitals Program that will inject \$679 million into hospitals and includes upgrades at Logan, Caboolture and Ipswich hospitals, along with regional Hospitals in Atherton, Blackall and Cairns. To deliver the best start for Queensland students four new schools were opened this year and an extensive program to upgrade and improve schools is also being rolled out.

Our government also encourages and facilitates private sector development throughout Queensland. We help industry invest in Queensland through the work of the Coordinator-General and Market-Led Proposals, and we support local government infrastructure projects through programs such as the Maturing the Infrastructure Pipeline Program and Building our Regions.

Our goal to achieve fifty percent of Queensland's energy needs from renewable sources is also driving significant private investment.

The State Infrastructure Plan Part B: Program is updated every year and will continue to reflect Queensland's infrastructure investment priorities across regions, industry and community—creating the right conditions for growth, resilience, prosperity and a lifestyle which is the envy of the rest of Australia.



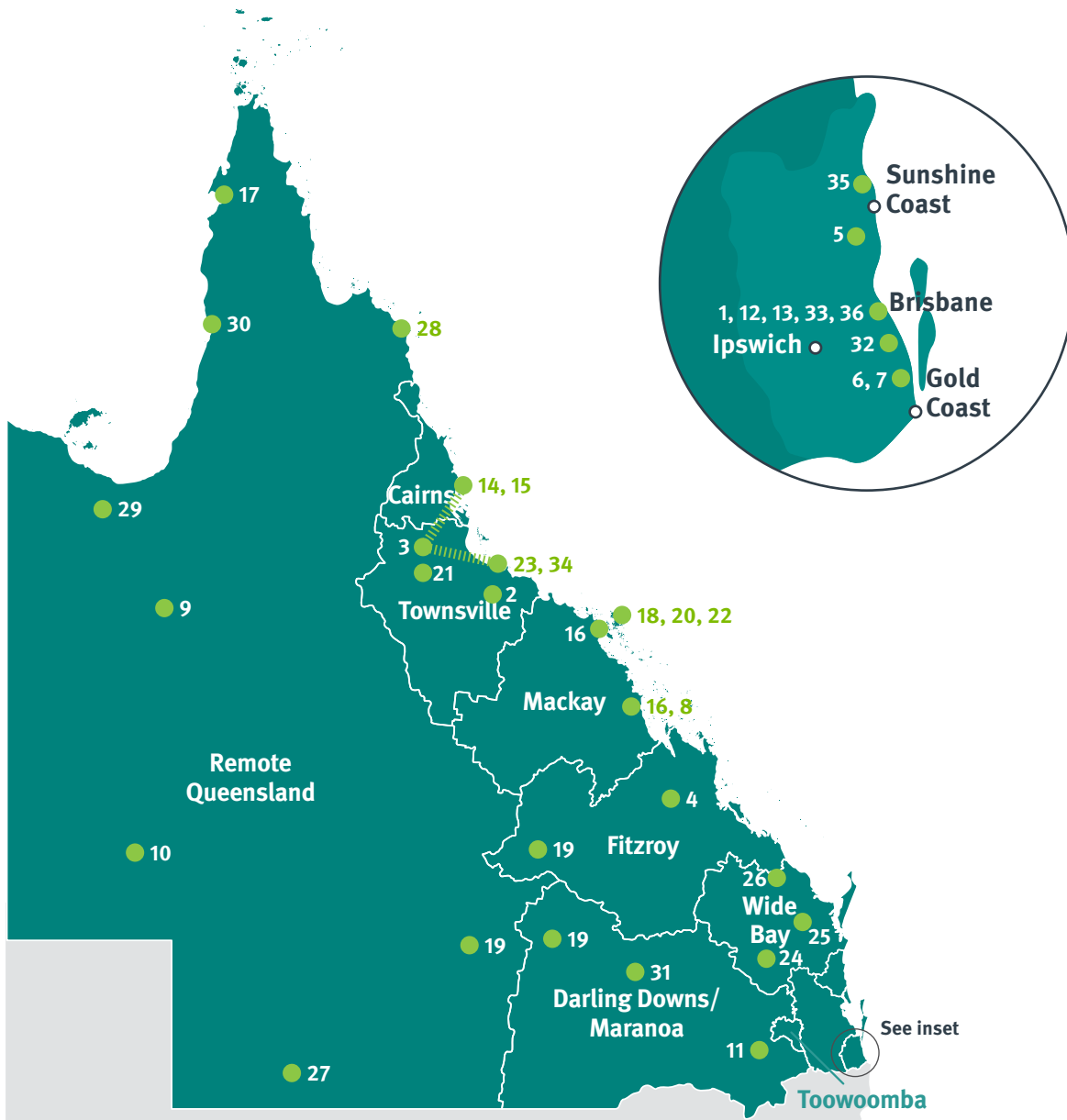
The Honourable Cameron Dick MP

Minister for State Development,
Manufacturing, Infrastructure and Planning

Cover: Logan Hospital

Inside cover: Queensland's defence industry supporting the Australian Army through long-term sustainment on the Bushmaster Multi-Role Protected Vehicles at the Thales Australia facility in Brisbane.

Queensland infrastructure project highlights



Selected public and private projects

Queensland Government

1. Cross River Rail
2. Burdekin Falls Dam improvements (SunWater)
3. Powering North Queensland: Transmission Line (Powerlink)
4. Rookwood Weir
5. Beerburrum to Nambour rail upgrade
6. State high schools – Coomera and Pimpama
7. Picnic Creek State School
8. Vines Creek Bridge replacement

9. McKinlay Shire Multi Purpose Health Service refurbishment and expansion
10. Boulia Community Clinic refurbishment

Australian Government

11. Inland Rail (Australian Rail Track Corporation)

Local government

12. Brisbane Metro
13. Kingsford Smith Drive upgrade
14. Cairns Performing Arts Centre

15. Cairns Northern Cycleway
16. Mackay Regional Sport Precinct project

Coordinator-General facilitated projects

17. Amrun project
18. Hayman Island repair and refurbishment project
19. Santos Gas Field Development project
20. Daydream Island repair and refurbishment project
21. Kidston renewable energy hub (Genex Power)
22. Lindeman Great Barrier Reef Resort

23. Townsville State Development Area
24. Coopers Gap Wind Farm

Building our Regions

25. Bundaberg Regional Aviation and Aerospace Precinct – stage 3
26. Agnes Water waste transfer station
27. Yowah water security project
28. Hope Vale fibre optic project
29. Gregory water treatment plant solar power project
30. Pormpuraaw land and sea management base

31. Roma Airport runway upgrade

Private sector

32. Logan Motorway Enhancement Project
33. Brisbane Airport – second runway
34. Townsville Airport upgrade and expansion
35. Sunshine Coast Airport – new east-west runway
36. Brisbane International Cruise Terminal

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		Social housing	153

2017–18 achievements



405

construction projects completed or underway



\$2.2 B

State Infrastructure Fund



\$5.4 B

commitment to fully fund Cross River Rail



1350

local government projects in regional areas through Works for Queensland



4

new schools



2520 Mw

renewable energy projects confirmed



576

new social housing dwellings



189 M

total number of passenger transport trips across QLD



48.7 km

of dedicated (off-road) cycle paths in QLD



802,100

Queenslanders cycle in a typical week



18

new, upgraded and existing venues ready on time for 2018 Commonwealth Games



1.1 M

G:link trips during the 2018 Commonwealth Games



over 40

hospital and health infrastructure projects delivered

\$239 M
for Indigenous Housing 

 **\$48.6 M**
Attracting
Tourism Fund

\$15 M
for the Sunshine Coast
internet submarine cable

 **35**
new and upgraded fire
stations in 2018–19

\$21.7 B
for Queensland Transport
and Roads Investment
Program over next four years 

\$50 M
for Indigenous Councils
Critical Infrastructure
Program in 2018–19

\$281 M
for the Logan Hospital
redevelopment 

>44,000 KM²
of land earmarked for
resource exploration

\$352 M
for Rookwood Weir 

 **\$250 M**
to make schools
'2020 Ready'

2018 SIP at a glance

\$11.6 B
infrastructure
investment in
2018–19*

35%
in Greater
Brisbane**

65%
outside
Greater
Brisbane

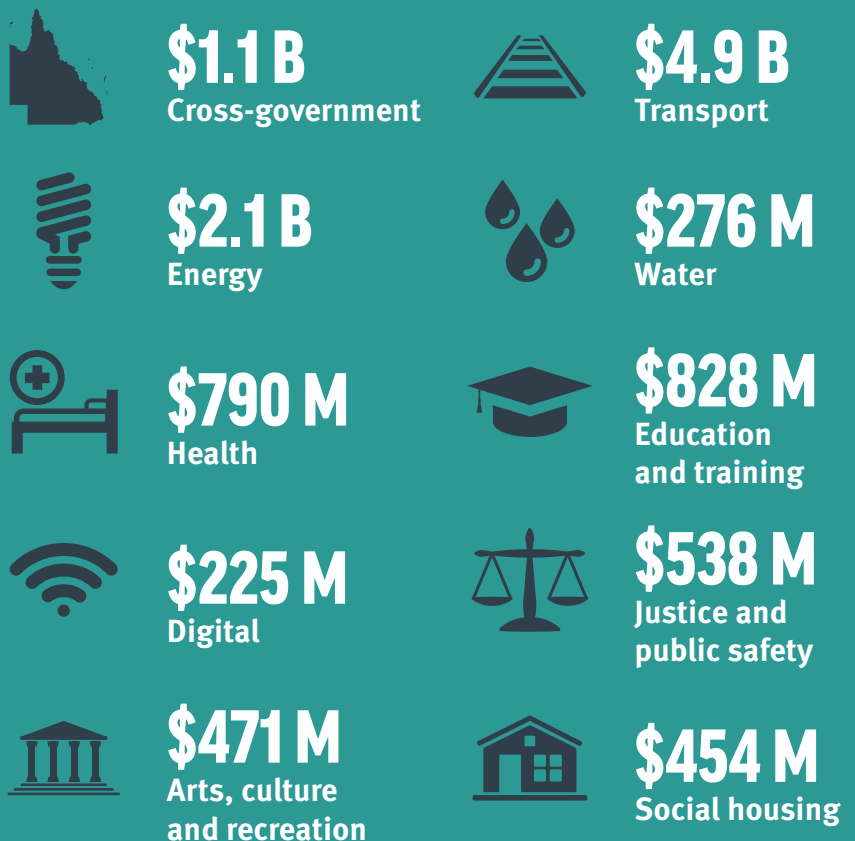
 **38,000**
jobs supported

635
1–4 year
program items

\$45.8 B
over the next
four years

↑ \$3 B

FUNDING BY INFRASTRUCTURE CLASS



Note: Figures may not add up due to rounding.
* This figure is from the 2018–19 Budget Paper 3.
** Includes Brisbane, Logan and Ipswich SA4s.

State Infrastructure Plan

The State Infrastructure Plan provides a framework for planning and prioritising infrastructure investment and delivery in a manner that supports growth, employment and economic development.

The *SIP Part A: Strategy 2016* (SIP) promotes a coordinated and integrated approach to planning, prioritising, funding and delivering infrastructure in Queensland.

The *SIP Part B: Program 2018* update details the infrastructure investment strategy and delivery program for the next four years. The update is a critical tool to align and integrate national, state, regional and local infrastructure planning, and provides the private sector and all levels of government the confidence to invest in Queensland.

Planning, prioritising and providing infrastructure supports economic development, increased productivity and the creation of communities in which people want to live.

As Queensland transitions to a more innovative, diverse and productive economy, it is vital that our infrastructure maximises the opportunities of the future and provides long-term sustainable benefits. At the same time, infrastructure investment needs to be balanced and provide immediate support for jobs and services throughout Queensland.

The government has a clear plan to advance Queensland – both now and into the future. The Government’s priorities for the community are to:

- ▶ create jobs in a strong economy
- ▶ give all our children a great start in life
- ▶ keep Queenslanders healthy
- ▶ keep communities safe
- ▶ protect the Great Barrier Reef
- ▶ be a responsive government.

These priorities underpin the Queensland Government’s four-year \$45.8 billion infrastructure plan, ensuring we deliver the right infrastructure in the right place at the right time to meet the demands of our fast-growing state.



Boys by the Burdekin River (image courtesy of Tourism and Events Queensland)

Our diverse communities and needs

Infrastructure underpins every aspect of modern life, supporting jobs and economic growth, boosting productivity and delivering positive social and environmental outcomes. It creates a lasting legacy for Queenslanders – connecting our businesses, services and people.

Queensland has experienced strong population growth, with our population surpassing five million people in May 2018. This growth is forecast to continue with more than seven million people calling Queensland home by 2040, driving demand across infrastructure classes.

Queensland needs infrastructure that supports our growing population, creates prosperous communities and local jobs.

With an area of 1,727,000 square kilometres, Queensland is a large and diverse state. Delivering infrastructure is complex due to the state's geographic size, population distribution and wide array of sectors making significant contributions to our economy. The right infrastructure is needed to unlock opportunities for new industries and support economic development, jobs sustainability and to create strong, vibrant and connected communities.

As the second largest state in Australia, the strengths of our vast regions also present challenges and constraints for infrastructure.

The **south east corner** needs future-proofing infrastructure, such as Cross River Rail and Gateway Motorway upgrades, that moves people and freight quickly, supports growth and delivers for a large population.

Initiatives such as the second runway at the Brisbane Airport and the new international cruise ship terminal at the Port of Brisbane will strengthen our tourism industry, elevating Brisbane as an attractive tourist destination and gateway into Queensland.

The state's **coastal areas** need transport networks that keep communities connected and are resilient to flooding and other natural disasters. In these coastal areas, the right infrastructure is needed to support access to markets, promote regional connectivity and encourage economic growth and prosperity.

The significant economic, social and environmental benefits provided by the state's coastal areas need to be maintained by enabling responsible development and protecting our waterways and ecological systems.

The prosperity of the state's **western and remote communities** is heavily influenced by the vast distances between regions and cities.

Our rural, remote and Indigenous communities need infrastructure that maintains liveability and community spirit, while ensuring connectivity so agricultural and resource sectors can quickly and safely reach their markets.

While each region of the state has distinct needs, all communities require access to high-quality universal education, health and social services and key amenities such as transport and water supply.

Significant investment is occurring to build new schools and redevelop hospitals and health facilities to address growing healthcare demands. One such project is the redevelopment of Nambour Hospital, funded through the Advancing Queensland Health Infrastructure Program.

Government is also investing in key initiatives such as Community Hubs and Partnerships and the Local Government Grants and Subsidies Program to build and empower our thriving communities.

The Queensland Government is making deliberate choices to invest in the right infrastructure that meets the diverse needs of Queensland. This is highlighted through projects, such as the Flinders Highway and Capricornia Highway upgrades to improve transport networks. The government is enhancing regional connectivity through investments in the Whitsunday, Townsville and Sunshine Coast airports and working with local governments to build resilience through initiatives such as the Rockhampton Flood Levy. In the south east, the Queensland Government remains committed to delivering Cross River Rail as its number one congestion busting priority.

Opportunities and challenges

The Queensland Government is committed to providing an environment that supports jobs growth, encourages business and industry to enter new markets and invest in Queensland and leverages technology and innovation to drive productivity.

Across the state, infrastructure is a driver for transformative change and can lead to a better quality-of-life. Meeting the infrastructure challenge now will ensure our economy is sustainable. The government is working closely with national and local governments to identify priorities, secure critical funding and improve the planning and delivery of projects.

Making the most of our existing infrastructure

Infrastructure is expensive and not all infrastructure can be delivered. The best solutions often do not involve building new infrastructure. The government is entrusted with making the best choices about the use of the state's resources and tough choices must be made. Investing in smarter infrastructure will help derive greater value from existing infrastructure.

Innovative use and re-use of existing infrastructure means it is not always necessary to build new – an upgrade, extension, refurbishment and even maintenance can be effective in delivering productivity, liveability and connectivity benefits for all Queenslanders.

Queensland is the most disaster-impacted state in Australia, with \$14 billion in damage of public infrastructure caused by more than 60 natural disasters over the past nine years. The Queensland Government's \$38 million Disaster Resilience Fund invests in resilience and mitigation projects, ensuring our infrastructure and communities are protected against future disasters.

Big benefits from going small

While large-scale projects like Toowoomba Second Range Crossing and the North Queensland Stadium are critical to the state's long-term prosperity, smaller projects are also important, especially in regional areas. Small-scale projects, such as those delivered by local governments using Works for Queensland funding, need comparatively less time to plan and deliver.

These projects, together with ongoing maintenance programs, help maintain a steady flow of work to support small and medium size businesses and local employment, contributing to the economic resilience and liveability of communities.

Building prosperity

The economic gains from Queensland's annual capital program extend beyond the building and construction trades and flow throughout local communities and regions. The infrastructure we build supports and creates future jobs, attracts and encourages private sector investment and increases the competitiveness of business and industry.

The Buy Queensland and Queensland Indigenous (Aboriginal and Torres Strait Islander) procurement policies apply to all government departments, statutory bodies and government-owned corporations. These policies ensure government purchasing drives local employment while building capacity and prosperity in the regions, by supporting the 426,000 small businesses which employ 44 per cent of the state's private workforce.

Our building and construction workforce

Queensland needs a highly-skilled workforce to attract new, and expand existing industries, creating jobs into the future. The infrastructure that is built, maintained, renewed and refurbished supports these industries, drives genuine employment opportunities and builds capacity and prosperity across Queensland.

As the demand for infrastructure continues to grow and construction activity increases, the challenge now and into the future will be to sustain and develop a skilled workforce, especially in engineering and construction.

The Queensland Government's Building and Construction Training Policy is a key element in the partnership between the government and the building and construction industry to develop the industry's skills base and future workforce capability. The policy requires contractors to employ apprentices and trainees and undertake workforce training as a condition of being awarded work on eligible Queensland Government projects.

As a result, public infrastructure investment will create new apprenticeships and traineeship places and enable the existing workforce to upskill and gain new knowledge to support their career progression.

Building strong Queensland regions

Infrastructure investment in Queensland's regions improves liveability, amenity and contributes to the economic development and resilience of communities. Three Queensland Government programs that provide funding for infrastructure in regional areas to support jobs and foster economic development are the Works for Queensland program, Building our Regions program and Transport Infrastructure Development Scheme.

Works for Queensland

The \$600 million Works for Queensland funding program supports regional councils to undertake job-creating maintenance and minor infrastructure projects.

Works for Queensland funds a wide variety of projects such as improving local roads and upgrading important community infrastructure like airports, sports facilities and swimming pools. So far, more than 1350 projects have been approved under the program. Councils estimate more than 6300 jobs for the 2016–17 program and more than 5770 jobs for the 2017–19 program will be supported, sustained or created in regional towns and cities with high unemployment.

Building our Regions

Building our Regions is a \$445 million targeted regional infrastructure program for local government projects. The program provides funding for critical infrastructure in regional Queensland that meets the specific needs of communities and supports economic development and jobs.

To date, Building our Regions has allocated \$225 million across 174 projects in 62 local government areas. More than \$353 million has been leveraged from other sources and in total the program has supported 1762 jobs.

Funding for round four opened in April 2018, with \$70 million available to local governments. This latest round of funding focuses on funding regionally-significant economic infrastructure projects that will deliver sustainable outcomes for regional communities.

Transport Infrastructure Development Scheme

The Department of Transport and Main Roads is managing \$150 million of Building our Regions funding through the Transport Infrastructure Development Scheme (TIDS). TIDS provides funding for local government road and transport related initiatives across Queensland. In the *2018–19 Queensland State Budget*, a further \$30 million available from 2021–2022 has been committed to support TIDS.

The Aboriginal and Torres Strait Islander TIDS annual funding allocation of \$8.2 million is a component of the statewide TIDS funding program and is aimed at upgrading transport infrastructure that improves primary access (road, air and sea) to Aboriginal and Torres Strait Islander communities throughout Queensland.

Thursday Island Cycleway

The Skilling Queenslanders for Work program is creating jobs, delivering vital community infrastructure and improving liveability across the state.

On Thursday Island, training and employment opportunities were provided to job seekers during the delivery of the Thursday Island Cycleway project. Job seekers were provided the opportunity to become qualified concreters and 10 of them have now transitioned into full-time employment in the local community.

A further six job seekers have recently joined the project to replace those now in paid employment and are gaining valuable work-ready skills and seeing the project through to its completion.

In addition to providing locals with jobs, the cycleway will improve community health and fitness.

Boosting growth industries

Tourism

Queensland's tourism industry is worth \$25 billion and growing rapidly. It is an important driver of Queensland's economy, creating jobs, attracting investment and sustaining communities.

Advancing Tourism 2016–20 aims to capitalise on tourism growth by developing innovative tourism products and experiences, as well as building the tourism workforce and skills needed to meet demand.

Modern, high-quality infrastructure is crucial to providing seamless travel into and around Queensland. Investing in airports, infrastructure and improving access to tourism hot spots drives tourism growth.

The Queensland Government will invest \$182.2 million in new and improved tourism infrastructure for Queensland, to provide new tourism experiences across the state. This commitment includes:

- ▶ \$48.6 million for the Attracting Tourism Fund to provide incentives to attract new international airline routes to Queensland and incentivise the development of major tourism infrastructure
- ▶ \$36 million for the Growing Tourism Infrastructure Fund which will deliver new tourism infrastructure across Queensland
- ▶ \$10 million for the Outback Tourism Infrastructure Fund to specifically fund opportunities in Outback Queensland
- ▶ \$50 million has also been provided to rejuvenate the Great Barrier Reef Islands.

Renewable energy

The *Powering Queensland Plan* sets out the Queensland Government's commitment to transition to a low-carbon energy future through the following actions:

- ▶ 50 per cent renewable energy target by 2030
- ▶ maintain affordability and security during the transition to renewable energy generation
- ▶ facilitate the next wave of up to 400 megawatts of diversified renewable energy, including 100 megawatts of energy storage
- ▶ improve large-scale project facilitation, planning and network connections
- ▶ continue to advocate for stable, integrated national climate and energy policies.

Queensland is experiencing unprecedented renewable energy activity with a \$20 billion pipeline of energy projects. The Queensland Government will continue to actively facilitate private sector investment in renewable energy and storage capacity. A snapshot of renewable energy projects is shown on page 13.

There are also a range of proposals in the early stages of planning, for example, the Clarke Creek wind and solar farm located 150 kilometres north-west of Rockhampton. The wind farm may include up to 195 wind turbines and involve 350 construction jobs. Once operational, the project has the capacity to provide three per cent of the generation required to power the entire state.

Brisbane International Cruise Terminal

The Brisbane International Cruise Terminal is a Market-Led Proposal which has reached contractual close and is currently in delivery phase.

Mega-cruise ships, measuring more than 270 metres long, are unable to berth at the existing cruise ship terminal in Hamilton. The cruise ship terminal was proposed by the Port of Brisbane Pty Ltd which saw the opportunity to capitalise on its experience, capabilities and location to develop a new mega-cruise ship terminal.

The new terminal will support the expansion of the cruise-ship market in Queensland, stimulating the economy and bringing more tourists to the state.

This missing link in Queensland's tourism infrastructure will enable additional cruise ships to be based in Brisbane or to stop over on their journey

up the coast to destinations such as Cairns. This will give visitors the opportunity to visit other iconic destinations such as the Great Barrier Reef.

Brisbane is an attractive base for cruise options to destinations such as the South Pacific Islands or the Queensland coast. These journeys are up to two days shorter than similar cruises departing from Sydney.

The \$158 million cruise terminal is being built on government-owned land opposite the port. The Port of Brisbane is building and financing the cruise ship terminal and will operate it once complete.

Over its two-year construction period, the project is expected to support an average of 245 jobs each year and, once operational, it is predicted to safeguard up to 1250 existing cruise industry jobs and add a further 49 jobs a year.

Renewable energy in Queensland

The Queensland Government remains committed to a diverse mix of renewable technologies and creating an attractive environment for private sector developers and financiers to invest and build in Queensland.

Since January 2016, 32 large-scale renewable energy projects spanning solar, wind, storage and biomass technologies have been committed or commenced operation across Queensland (Figure 1).

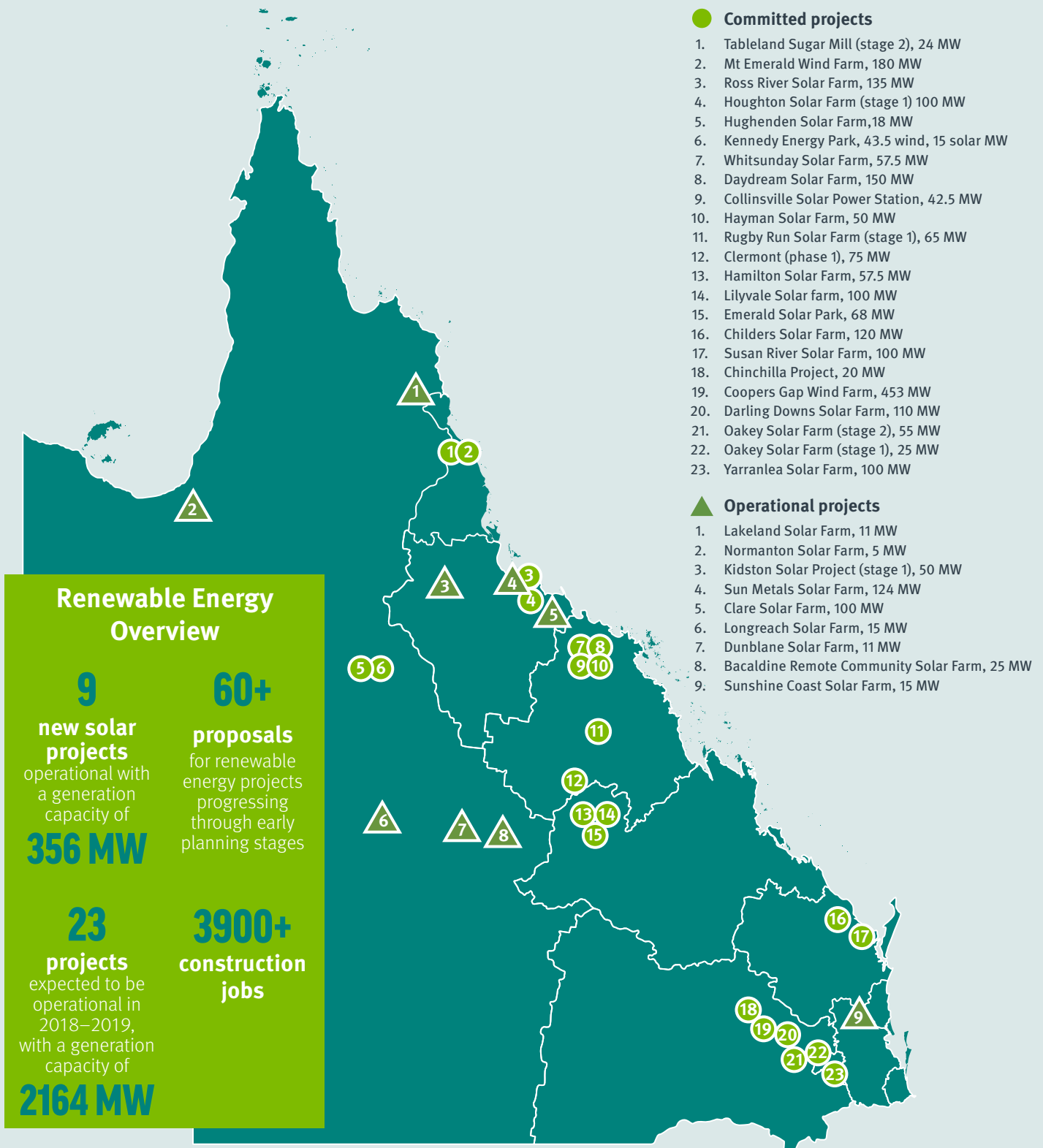


Figure 1: Large-scale operational and committed projects (solar, wind and biomass)

Note: Information correct as at 4 June 2018.

Overview

Cross River Rail

Cross River Rail will improve the quality-of-life for Queenslanders and grow the economy through job creation, activation of urban development and provision of better access to places of work, study and recreation. In combination with Brisbane City Council's Brisbane Metro bus network project, Cross River Rail will unlock capacity constraints in the transport network and provide a turn-up-and-go transport system benefiting all of South East Queensland (SEQ).

The current rail network is already nearing capacity. It is constrained by a single river crossing in the Brisbane central business district causing a bottleneck that limits the ability to run more trains. By 2036, SEQ's population will grow from 3.4 million to 4.9 million people. While more than 80 per cent of that growth is occurring outside Brisbane, in the same period 45 per cent of SEQ's jobs growth will be concentrated in the Brisbane metropolitan area.

Driven by population and employment growth, demand for passenger rail services is forecast to almost triple by 2036. This means getting people to and from Brisbane will be critical. Cross River Rail is more than just a rail project. It will unlock 40 years of economic growth across SEQ supporting employment and economic growth now, during construction and well beyond its completion. Cross River Rail will be operational by 2024.

Delivery

Cross River Rail is being delivered in partnership with the private sector through two major packages of work. Tunnel, stations and development is being procured as a public-private partnership for the underground section of the project including the tunnel from Dutton Park to Normanby, as well as the construction of four underground stations and an upgrade to Dutton Park station. The Tunnel, Stations and Development public-private partnership will also provide a property development opportunity above Albert Street station.

A Rail, Integration and Systems alliance will deliver the design, supply and installation of the supporting rail systems and integration of Cross River Rail into Queensland Rail's train network and an upgrade to Exhibition Station.

Early works are well underway at the Woolloongabba site which will become the staging area for tunnel boring machines. Once the tunnels have been drilled, the site will become the location of the new underground Woolloongabba station.

Borehole drilling is critical to identify soil, rock or other features that may impact tunnelling works or station construction. A program of borehole drilling is being conducted at over 50 locations along the proposed Cross River Rail Corridor.

Benefits for all SEQ



18,000
extra seats during
the AM peak by 2036



40
extra services during
the AM peak by 2036



47,000
road users in SEQ
choosing to use
trains instead

Cross River Rail delivering jobs for young Queenslanders

The Buy Queensland procurement policy and the Cross River Rail project will directly benefit 450 young Queenslanders by securing them an apprenticeship or traineeship through the project's construction.

The project will offer opportunities for aspiring builders, electricians, welders and high-tech trades such as signalling, telecommunications, electrical controls and specialists in mechanical works such as escalators, elevators and air conditioning.

These opportunities will give apprentices and trainees a pathway to safe, secure employment and the chance to work on city-changing infrastructure projects.

Cross River Rail alignment



More trains, more often

For Logan

- ▶ Gold Coast line – a train leaving every five minutes on average and an extra 3150 seats during the AM peak.
- ▶ Beenleigh line – a train leaving every six minutes on average and an extra 2700 seats during the AM peak.

For the Redlands

- ▶ Cleveland line – a train leaving every 5.5 minutes on average and an extra 1800 seats during the AM peak.

For Ipswich

- ▶ Ipswich and Springfield lines – a train leaving every five minutes on average and an extra 1800 seats on each line during the AM peak.

For the Gold Coast

- ▶ Gold Coast line – a train leaving every five minutes on average and an extra 3150 seats during the AM peak.

For Moreton Bay

- ▶ Caboolture and Redcliffe Peninsula lines – a train leaving every five minutes on average and an extra 1800 seats on each line during the AM peak.

For the Sunshine Coast

- ▶ Caboolture and Nambour line – a train leaving every five minutes on average and an extra 1800 seats during the AM peak.



Creating opportunities

Facilitating development

The infrastructure investment decisions made today will have a significant and lasting impact on our economy and society. The Queensland Government works closely with the private sector to shape the state's complex infrastructure environment and to plan, fund and deliver infrastructure.

The SIP sets out a clear framework for both planning and prioritisation of infrastructure projects. Figure 2 outlines this framework and identifies the current influences which now contribute to the delivery of public and private infrastructure projects.

The private sector plays a key role in solving challenges and creating opportunities to drive Queensland's economy, and ensuring there is a highly-skilled and adaptable workforce that is ready for the future.

The Queensland Government facilitates private sector opportunities in a number of ways, with the aim of growing the pipeline of infrastructure projects, these include:

- ▶ The Market-Led Proposals framework provides an innovative pathway for business and government to work together to address community infrastructure needs.
- ▶ Economic Development Queensland engages with state and local government, the development industry and the public to identify, plan, facilitate and deliver infrastructure projects through Priority Development Areas.
- ▶ The Coordinator-General administers the *State Development and Public Works Organisation Act 1971* which has wide-ranging powers to plan and deliver projects to achieve economic outcomes for Queensland.

The Coordinator-General has unique powers to facilitate delivery of strategic projects and industrial developments and works closely with government agencies to fast track and stream line development opportunities. Figure 3 provides an overview of Coordinator-General facilitated projects.

The Coordinator-General also administers the *Strong and Sustainable Resource Communities Act 2017* which ensures that residents of communities near large resource projects benefit from the construction and operation of those projects.

Unlocking investment potential

The SIP identified five sectors that would benefit from the development of new infrastructure strategies.

The Queensland Government is progressively developing these five strategies to guide infrastructure planning and delivery, and encourage investment opportunities in these sectors. The Strategies are:

- ▶ *Queensland Bulk Water Opportunities Statement (QBWOS)* – delivered and being implemented
- ▶ *Powering Queensland Plan* – delivered and being implemented
- ▶ Strategy for Social Infrastructure – being developed
- ▶ Digital Infrastructure Plan – being developed
- ▶ Queensland Transport Strategy – being developed.



\$33 B
in major projects being facilitated by the Coordinator-General

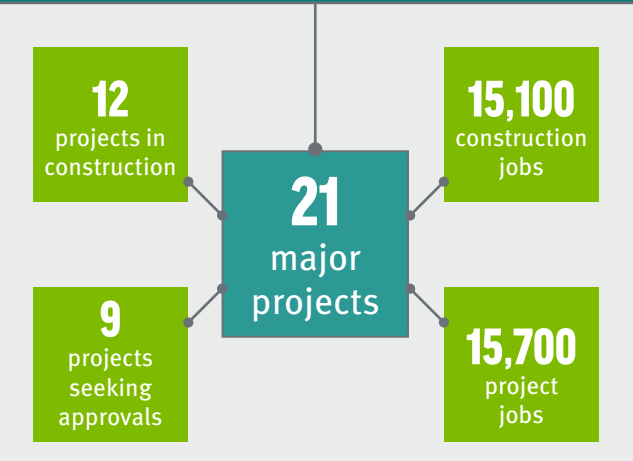


Figure 3: Coordinator-General project overview

Creating opportunities

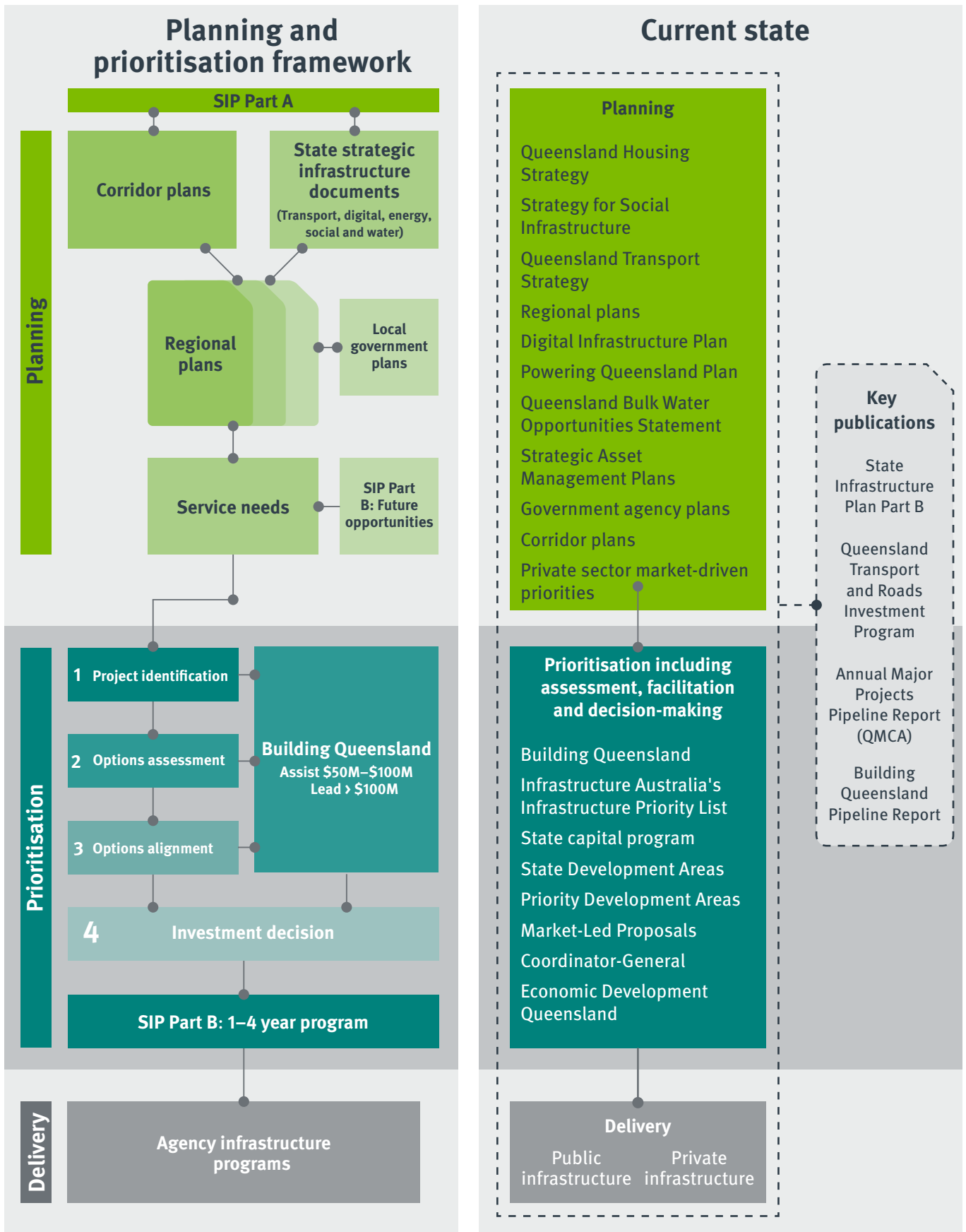


Figure 2: Current state of the planning and prioritisation framework

Creating opportunities

2018 Major Projects Pipeline Report

The Queensland Major Contractors Association (QMCA), Construction Skills Queensland (CSQ) and the Infrastructure Association of Queensland (IAQ) prepares an annual Major Projects Pipeline Report which captures major economic infrastructure projects, valued in excess of \$50 million, from around Queensland. This report provides a catalyst for even closer collaboration between the Queensland Government and the private sector including asset owners, financiers and professional services providers.

The 2018 report identified 190 projects with an engineering value of \$39.9 billion, an increase from the 2017 pipeline. The report indicates that new public and private infrastructure investment is having a broader, stimulatory effect on Queensland's economy, filling the void left by retreating mining-related activity. However, the 2018 report also highlights lower levels of private sector investment than in previous years.

The report's pipeline indicates that non-water utilities and rail offer the strongest prospects and major project work for roads and bridges will also remain on a growth path, expecting to reach a new peak in 2018–19.

This is evident in the *Queensland Transport and Roads Investment Program 2018–19 to 2021–22*, which is set to deliver a \$21.7 billion investment over four years for road, rail and transport infrastructure projects.

By region, the report indicates northern Queensland has the strongest major project growth prospects over the next five years with projects valued at \$8.2 billion in the pipeline.

Building Queensland

The Queensland Government supports the continual improvement of planning practises for major infrastructure projects.

Building Queensland leads the development of business cases for government infrastructure proposals valued at more than \$100 million and assists with the development of proposals between \$50 million and \$100 million.

Building Queensland's June 2018 Infrastructure Pipeline Report (refer figure 4 below) includes both economic and social infrastructure proposals and assists the Queensland Government's investment decisions. Part 1 of the report includes the unfunded infrastructure proposals that Building Queensland considers to be priorities for Queensland. Part 2 outlines proposals funded for delivery where Building Queensland is leading the detailed business case.

Since June 2016, 18 proposals from Building Queensland's Infrastructure Pipeline have received funding commitments from the Queensland Government.

The June 2018 *Building Queensland Infrastructure Pipeline Report* can be found at buildingqueensland.qld.gov.au/pipeline.

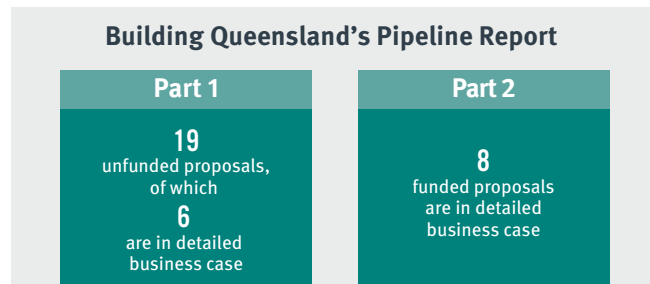


Figure 4: Infrastructure investment in Queensland



Logan Hospital expansion is in the detailed business case phase of the Building Queensland Pipeline

Queensland Government investment

The Queensland Government's \$45.8 billion capital program over the next four years will deliver essential infrastructure to meet the demands of our fast-growing state and the needs of Queenslanders.

Record levels of investment in transport infrastructure through the Queensland Transport and Roads Investment Program highlight the government's commitment to keep Queensland moving and deliver the infrastructure we need now.

The government's infrastructure plan is more than major construction projects. There are many small and medium-sized infrastructure projects that ensure government services are sustainable and community liveability continues to improve.

2018–19 infrastructure budget

In 2018–19, \$11.6 billion has been allocated by the Queensland Government for expenditure on public infrastructure, estimated to directly support more than 38,000 jobs.

Across Queensland, public infrastructure remains a key driver for transformative change, encouraging private investment, making our communities better places to live and expanding the long-term productive capacity of the economy.

The 2018–19 budget includes productivity enhancing economic infrastructure and essential social infrastructure throughout the state. Infrastructure investment highlights from the 2018 Major Projects Pipeline Report and the 2018–19 Queensland State Budget are shown in Figure 5.

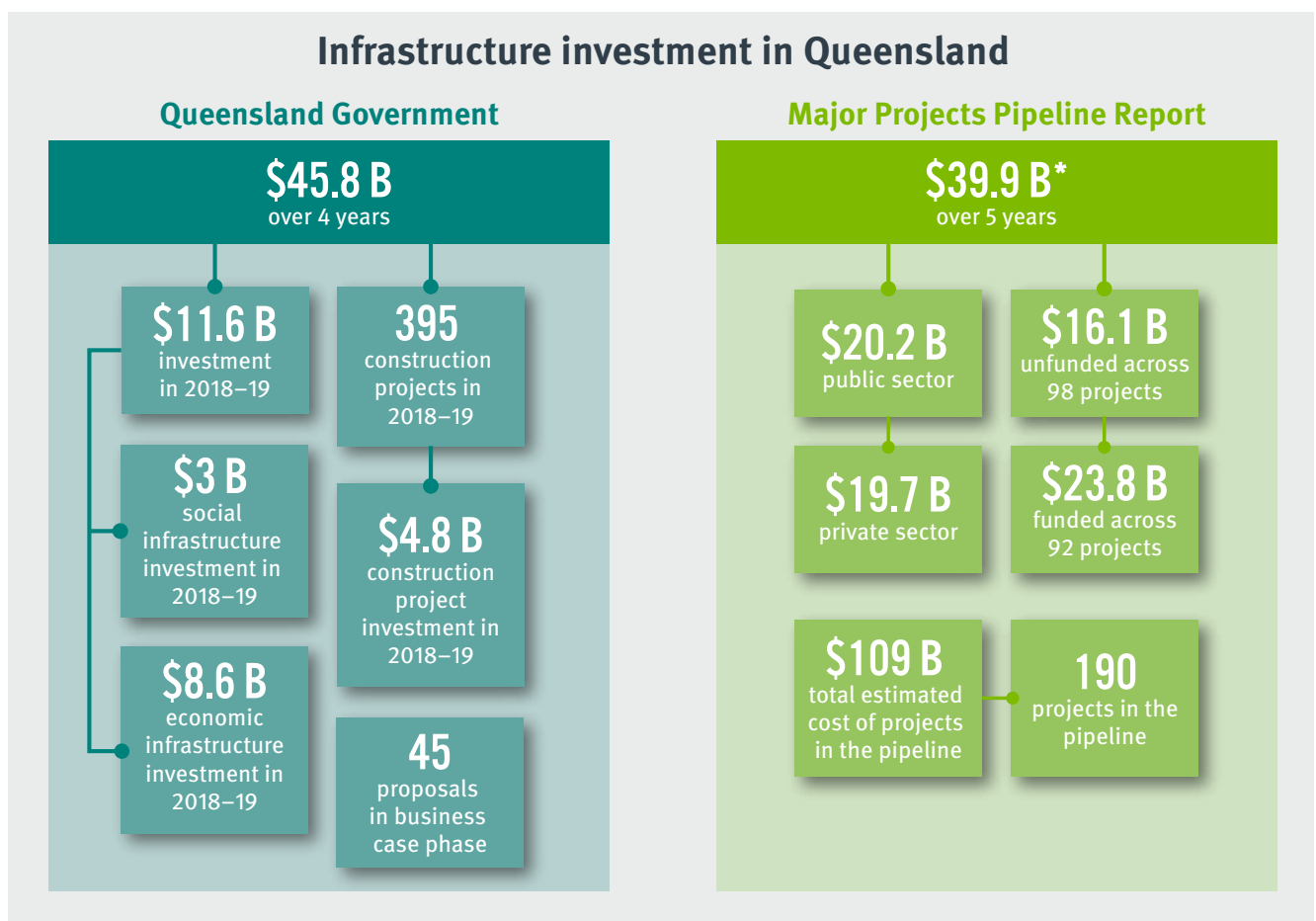


Figure 5: Infrastructure investment in Queensland

Note: Figures may not add up due to rounding.

*The Major Projects Pipeline Report highlights the engineering value of economic infrastructure projects, valued in excess of \$50 million. These projects include public and private infrastructure from around Queensland.

Creating opportunities

State infrastructure pipeline

The state infrastructure pipeline highlights initiatives being planned and delivered by the Queensland Government.

The pipeline is the most comprehensive source of information about potential public infrastructure investment in Queensland. It is a key tool for building confidence in the state's future and provides greater clarity for industry and other levels of government.

The state infrastructure pipeline shown in Figure 6 highlights proposals identified in the infrastructure class pipelines which have progressed since the SIP Part B 2017 update. The planning phase of the state infrastructure pipeline also includes new proposals.

The delivery phase of the state infrastructure pipeline does not include new proposals.

There are currently 125 new and existing proposals in the planning phase of the state infrastructure pipeline. Proposals that have not progressed since the SIP Part B 2017 update are shown in the 2018 infrastructure class pipelines.

State infrastructure pipeline overview

49

new items in the planning phase of the pipeline in 2018

50

items have moved through the pipeline since 2017 (including items in planning and delivery)

27

items have moved from planning phase to delivery since 2017

About the pipeline

The state infrastructure pipeline illustrates how proposals mature from a concept to a funded government project.

The **planning** phase reflects proposals in the Building Queensland pipeline and Infrastructure Australia's Infrastructure Priority List, along with other significant infrastructure proposals being planned by state government agencies.

The state infrastructure pipeline does not capture infrastructure proposals being progressed by other levels of government or the private sector.

Investment decisions are made through existing governance mechanisms. Completed business cases may be referred to Infrastructure Australia for consideration or considered by the Queensland Government for funding. Business cases may also find market demand is not sufficient to warrant immediate investment and are removed from the pipeline.

The **delivery** phase of the state infrastructure pipeline is shown in the 1–4 year program tables in each infrastructure class.

The government continues to prefer non-infrastructure solutions where appropriate. These solutions may involve policy reform or better use of infrastructure and may be identified by re-testing infrastructure proposals. Where non-infrastructure solutions are identified, proposals are removed from the pipeline.

Infrastructure class pipelines

A pipeline has been included in each infrastructure class bringing together the 1–4 year program, agency proposals and future opportunities within the various planning, investment and delivery stages.



Mackay Ring Road Pioneer River bridge (image courtesy of CPB Contractors)

State infrastructure pipeline highlights

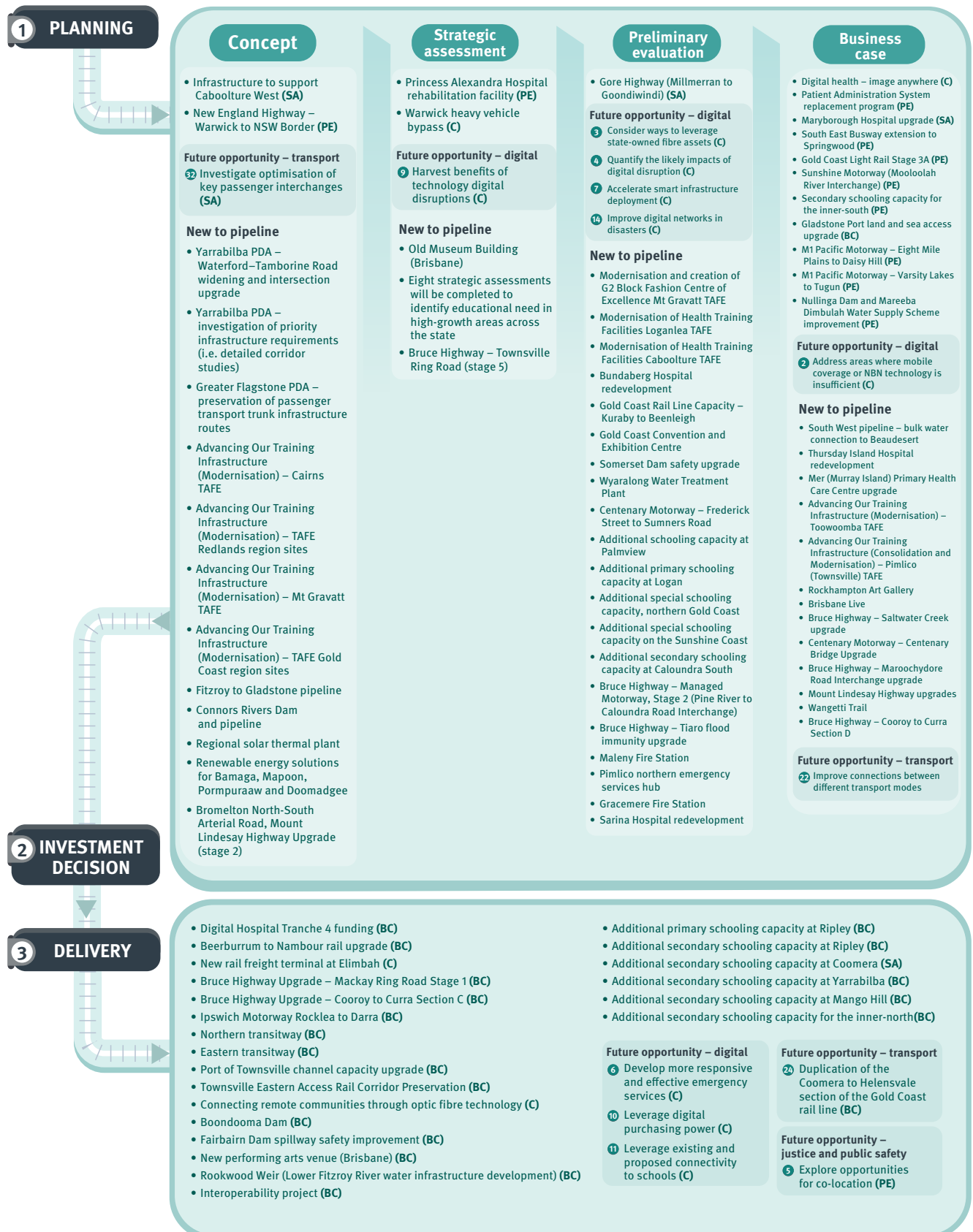


Figure 6: State infrastructure pipeline highlights (planning phase – moved and new proposals; delivery phase – moved proposals only)

Note: Where existing proposals identified in the SIP Part B 2017 update have moved along the pipeline, the symbol after the proposal shows its previous stage. (C) represents the concept stage, (SA) represents the strategic assessment stage, (PE) represents the preliminary evaluation stage and (BC) represents the business case stage.

Infrastructure Priority List update

The Infrastructure Priority List, produced by Infrastructure Australia, identifies nationally-significant initiatives and projects across all states and territories, providing guidance on the infrastructure investment needed to support Australia's continued prosperity. The Infrastructure Priority List is updated regularly, with a static version published each year.

Business cases that meet the required criteria are progressed to Infrastructure Australia for consideration as they are completed. Infrastructure Australia has developed an Assessment Framework to guide its decisions about infrastructure.

Queensland projects which have been funded and no longer feature on the Infrastructure Priority List include:

- ▶ M1 Pacific Motorway – Gateway Motorway merge upgrade
- ▶ M1 Pacific Motorway – Mudgeeraba to Varsity Lakes
- ▶ Bruce Highway – Cooroy to Curra section C
- ▶ Bruce Highway – Mackay Ring Road stage 1
- ▶ Ipswich Motorway Rocklea to Darra stage 1C.



Boundary Road Interchange, Bruce Highway, Narangba

Infrastructure Priority List – Queensland projects¹

Proposed project/initiative ²	Location	Timeframe ³	Pipeline phase ⁴
High priority projects and initiatives			
Cross River Rail	Brisbane	Near-term	Business case
Brisbane Metro (Brisbane City Council)	Brisbane	Near-term	Business case
Ipswich Motorway Upgrade: Rocklea to Darra (remaining sections)	Western Brisbane	Near-term	Business case
Port of Brisbane dedicated freight rail connection	Brisbane	Medium-term	Strategic assessment
National Freight and Supply Chain Strategy	National	Near-term	Strategic assessment
Network Optimisation Program – rail	National	Near-term	Concept
Network Optimisation Program – roads	National	Near-term	Concept
Preserve corridor for East Coast High-Speed Rail	National	Near-term	Strategic assessment
Priority project			
Beerburrum to Nambour Rail Upgrade	Sunshine Coast to Brisbane	Near-term	Business case
Inland Rail (Melbourne to Brisbane via inland NSW) (Australian Government)	National	Longer-term	Business case
Priority initiative			
M1 Pacific Motorway – Eight Mile Plains to Daisy Hill	Eight Mile Plains – Daisy Hill	Near-term	Business case
M1 Pacific Motorway – Varsity Lakes to Tugun	Varsity Lakes – Tugun	Near-term	Business case
Gold Coast Rail Line – Kuraby to Beenleigh rail capacity improvement	Kuraby – Beenleigh	Near-term	Preliminary evaluation
Brisbane to Gold Coast transport corridor upgrades	Brisbane – Gold Coast	Near-term	Various
Cunningham Highway – Yamanto Interchange to Ebenezer Creek	Yamanto to Ebenezer	Near-term	Business case
Bruce Highway Upgrade	Brisbane to Cairns	Near-term	Various
Mount Isa – Townsville rail corridor upgrade	North Queensland	Medium-term	Business case
Gladstone Port land and sea access upgrade (Gladstone Ports Corporation)	Gladstone	Medium-term	Various
Preserve corridor for Salisbury to Beaudesert rail connection	Brisbane – Beaudesert	Near-term	Business case
Lower Fitzroy River water infrastructure development (Rookwood Weir) (Gladstone Area Water Board and SunWater)	Central Queensland	Near-term	Business case
Advanced Train Management System (ATMS) implementation on ARTC network (Australian Rail Track Corporation)	National	Near-term	Preliminary evaluation
Connect gas suppliers to eastern gas markets	National	Near-term	Concept

¹ IPL as at April 2018. Includes some national projects which have application in Queensland.

² For project/initiative summaries visit: infrastructureaustralia.gov.au/projects/infrastructure-priority-list.aspx.

³ Near-term: within five years; medium term: within 10 years; longer term: within 15 years.

⁴ The pipeline phase is aligned to the State infrastructure pipeline.

State Infrastructure Fund

The \$2.2 billion State Infrastructure Fund was established to boost infrastructure investment and increase business confidence. The fund aims to ensure investment delivers significant economic benefits for Queensland, improves supply chain connectivity and maintains liveability.

Investments are targeted towards:

- ▶ delivering key social and economic infrastructure projects in regions through the Significant Regional Infrastructure Projects Program
- ▶ improving productivity of key transport routes and connecting communities and markets through the Priority Economic Works and Productivity Program
- ▶ developing a robust pipeline of projects that support priorities of local communities and local governments around the state through the Maturing the Infrastructure Pipeline Program
- ▶ maintaining and upgrading essential local government infrastructure through Works for Queensland.

Investments such as upgrades to the Ipswich Motorway and the replacement of the Bill Fulton Bridge in Cairns benefits commuters and improves the productivity for the freight and logistics industries.

The State Infrastructure Fund has also been successful in supporting regional councils and local jobs with the Works for Queensland program injecting much-needed funding into 65 regional local governments. The program was initially a one-year, \$200 million program. Due to its success, the Queensland Government has committed, through Works for Queensland, \$400 million to extend the program through to 2020–21.

Through the State Infrastructure Fund, the Queensland Government continues to invest in new infrastructure projects which will strengthen the Queensland economy and support local jobs. The State Infrastructure Fund is part of the government's capital program and the 1–4 year program tables capture projects funded through the State Infrastructure Fund. An overview is provided on page 25.



Dawson Highway (Gladstone – Biloela) timber bridge replacement package

Overview of State Infrastructure Fund

Project/program	Total SIF budget (\$M)	Status
Significant Regional Infrastructure Projects Program	180	25 significant social and economic infrastructure projects/programs completed or underway, with \$131 million expended. Program will be completed mid-2019
Priority Economic Works and Productivity Program ⁵	200	All six projects completed or underway, with \$178 million expended. Program will be completed in late 2020.
Maturing the Infrastructure Pipeline Program ⁶	20	Program will be completed during 2018–19.
Cross River Rail ⁷	850	Project delivery underway and operational in 2024.
Works for Queensland Round 1 ⁸	200	Round 1 successfully delivered.
Pacific Motorway (Mudgeeraba – Varsity Lakes)	44	Construction has commenced and is expected to be completed in 2020.
Smithfield Bypass	69	Construction will commence in 2018–19.
Centenary Motorway Upgrade package	48	Completion of the upgrades to Sumners Road Interchange will take approximately three years to complete.
Tourism infrastructure	50	Committed in the <i>2018–19 State Budget</i> .
Woodfordia infrastructure upgrade	1	Funding committed in 2017–18.
Bruce Highway	128.5	Funding committed in 2017–18.
M1 Action Plan	55	Funding committed in 2017–18.
Building Better Hospitals ⁹	352.6	Funding committed in 2017–18.
Unallocated	1.9	
TOTAL	2200	

⁵ \$100 million reallocated towards the Bruce Highway and M1 Action Plan projects.

⁶ A further \$10 million was added to the Maturing the Infrastructure Pipeline Program as part of the 2017–18 State Budget, but this is not being funded through the State Infrastructure Fund.

⁷ State Infrastructure Fund contribution to the \$5.409 billion Cross River Rail project.

⁸ A further \$400 million was added to the Works for Queensland program as part of the 2017–18 and 2018–19 State Budgets, but this is not being funded through the State Infrastructure Fund.

⁹ State Infrastructure Fund contribution to the \$679 million Building Better Hospitals commitment.

Maturing the Infrastructure Pipeline Program

The Maturing the Infrastructure Pipeline Program (MIPP) supports the development of a robust infrastructure planning pipeline. This provides both the Queensland Government and local governments with the necessary information to support infrastructure planning and budgeting practices, future grant applications and attract private investment.

Consultation undertaken during the development of the SIP identified that the early stages of infrastructure planning can be overlooked or truncated. As infrastructure is expensive, robust planning practices are crucial to providing the right infrastructure in the right place.

Through the State Infrastructure Fund, the Queensland Government created the \$20 million MIPP to undertake infrastructure planning.

MIPP1

The government announced a \$10 million boost to the program in the *2017–18 State Budget* to support the infrastructure planning efforts of local governments.

MIPP has evaluated the maturity of all proposals and opportunities raised during consultation on the SIP, producing 243 reports. These assessments have assisted the state and local governments to move proposals along the pipeline, from concepts to viable proposals. This has helped to focus state and local governments on areas of opportunity and community need, resulting in more informed decision-making about where and when to invest and providing better outcomes for Queensland communities.

Queensland Government proposals have now been integrated into the relevant infrastructure class pipeline in this SIP Part B 2018 update. The government will continue to investigate and progress these proposals.

During 2017, engagement with local governments identified further infrastructure proposals important to local communities. Needs analysis and options assessments for 40 infrastructure proposals submitted by 22 local governments are now being delivered.

Local government proposals are being progressed by the relevant local government. Updates on a selection of these proposals (proposals raised through consultation and early stage assessment proposals) can be found on pages 28 to 30.

MIPP2

On 12 March 2018, all local governments were invited to participate in a second phase of MIPP, known as MIPP2. This new phase was open to all local governments, with funding available through a competitive grant process for strategic planning or development of business cases and/or detailed designs for local government infrastructure projects.

Submissions to the program closed in April 2018 with more than 170 submissions received from 67 local governments. These submissions are being assessed.

Figure 7 provides an overview of the MIPP1 and MIPP2, including an explanation of where the infrastructure proposals sit in the planning pipeline.



Paradise Dam, Wide Bay–Burnett region

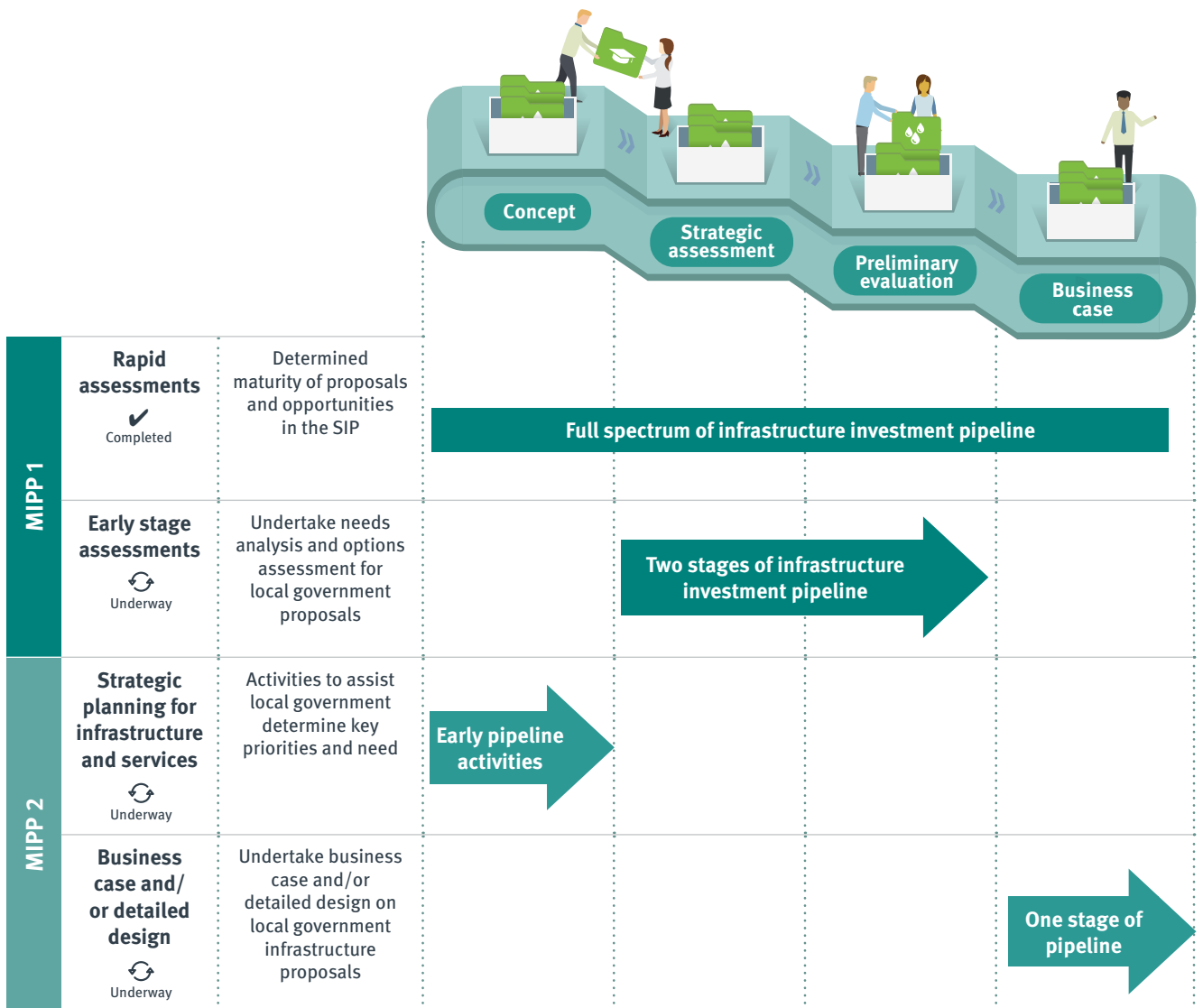


Figure 7: Maturing the Infrastructure Pipeline Program overview



Torres water project

2017–18 year in review

Maturing the Infrastructure Pipeline – proposals raised through consultation

Project	Status	Region
Cairns active transport network extension	Cairns Regional Council has continued to plan and implement cycleways to improve connectivity and encourage the community's use of active transport options.	Cairns
Rockhampton Convention Centre	The equivalent of strategic assessment of service requirement has been completed. Rockhampton Regional Council is continuing to explore options to support the development of conference and convention facilities.	Fitzroy
Rainbow Beach helipad	This proposal is being progressed by Gympie Regional Council.	Wide Bay
Hervey Bay and Maryborough water networks interconnection	A strategic assessment of service requirement is underway.	Wide Bay
Howard and Torbanlea sewerage	The project is progressing. There have been delays in securing land tenure for the sewerage treatment plant and effluent re-use area.	Wide Bay
Sunshine Coast Airport Expansion Projects	Project construction is underway with financing from the Australian Government, Queensland Treasury Corporation and the private sector.	Sunshine Coast
Convention, exhibition and performing arts centre	Functional specifications and initial planning has been completed. The next step is a business case, which may be supported by market interest.	Sunshine Coast
Sunshine Coast internet submarine cable	Discussions are underway with private sector entities in relation to the landing of a submarine cable on the Sunshine Coast, including both marine and associated landside infrastructure. The Queensland Government has committed \$15 million to support the project.	Sunshine Coast
Sunshine Coast Light Rail Project	Sunshine Coast Council is leading the proposal. The equivalent of preliminary evaluation has been completed. The next step is a business case, which may be supported by market interest.	Sunshine Coast
Ipswich Performing Arts Centre	The draft business case is currently under review, with discussions underway regarding funding strategies.	Greater Brisbane
Warrego Highway/Brisbane Valley Highway (Bayley Road extension)	This proposal is progressing through concept phase subject to Ipswich City Council priorities and available funding.	Greater Brisbane
Moreton Bay Region University Precinct (Petrie)	Creation of the allotments supporting the University Foundation Building is complete. Site development bulk earthworks and early works (utility service relocations) are in progress. Tenders have been invited for the Foundation Building.	Greater Brisbane
Bus and passenger rail connection to Brisbane	A \$15 million business case for the Toowoomba to Brisbane Passenger Rail was included in the Federal Government 2018–19 Budget Measures from the Infrastructure Investment Programme – Major Project Business Case Fund. Toowoomba Regional Council and Lockyer Valley Regional Council, in partnership with the private sector, will continue to advance the proposal for short, medium and long-term public passenger service solutions.	Multi-region

Maturing the Infrastructure Pipeline – early stage assessment proposals

Project	Status	Region
Mount Peter water infrastructure	This proposal is progressing through a preliminary evaluation phase in collaboration with Cairns Regional Council. Due for completion in late-2018.	Cairns
Douglas Shire water resilience	This proposal is progressing through a preliminary evaluation to identify options to meet the water security needs of the Douglas Shire. The initial work has identified four options for further investigation. Final recommendations are due in late-2018.	Cairns
Ravenshoe water supply scheme	An investigation to provide sustainable, safe and reliable water supplies to the Ravenshoe township and surrounding communities is progressing through a preliminary evaluation with Tablelands Regional Council. Due for completion in late-2018.	Cairns
Mareeba water pressure improvement	This proposal is being progressed through a preliminary evaluation with Mareeba Shire Council and is due for completion in late-2018.	Cairns
Lucinda long-term marina access project	Completed. The study confirmed the need for all-tide access at Lucinda, although further coastal process assessments are required to help inform Hinchinbrook Shire Council decisions on progressing to a preliminary evaluation.	Townsville
Herbert River intake weir and treatment system	This proposal is being progressed through a preliminary evaluation with Hinchinbrook Shire Council. Initial investigations have reviewed the impact of this project on the current water resource plan. Further investigations are ongoing, with final recommendations to be provided in late-2018.	Townsville
Forrest Beach sewerage scheme – staged approach	An investigation of sustainable options to sewer the beachside communities of the region is progressing through a preliminary evaluation with Hinchinbrook Shire Council. Due for completion in late-2018.	Townsville
Townsville Entertainment and Convention Centre	This proposal is progressing through a preliminary evaluation with Townsville City Council. Initial work is focused on undertaking stakeholder consultation, data analysis and research to identify and assess viable options. Due for completion in mid to late-2018.	Townsville
Emerald Entertainment, Events and Evacuation Centre	Completed. The need was confirmed and a recommendation was provided that the project progresses to a preliminary evaluation to confirm the size and site of such a facility.	Fitzroy
Emerald Saleyards upgrade	The development of an upgrade strategy for the Emerald Saleyards is being progressed in collaboration with Central Highlands Regional Council through a preliminary evaluation. Due for completion in late-2018.	Fitzroy
Bedford Weir Crossing	Completed. The study identified the construction of a new causeway as the preferred option and recommends the project progresses to business case.	Fitzroy
Causeway Lake revitalisation and development project	Completed. The study investigated options to restore and enhance environmental and recreational functionality of Causeway Lake. Whilst the need has been confirmed, other immediate actions were identified (regulatory and environmental) that need to be investigated prior to undertaking further planning.	Fitzroy
Parkhurst strategic road network	Completed. Findings indicated that there is a need for a more cohesive transport network for the Rockhampton Parkhurst area, with options identified for further evaluation at the preliminary evaluation stage.	Fitzroy

2017–18 year in review

Maturing the Infrastructure Pipeline – early stage assessment proposals – cont.

Project	Status	Region
Mount Morgan water supply security	The proposal is progressing through a preliminary evaluation in collaboration with Rockhampton Regional Council, and is due for completion in late-2018.	Fitzroy
Rockhampton regional industrial estate and intermodal logistics hub	The Gracemere Industrial Area has been confirmed through the study as a key development area supporting Rockhampton's need for economic growth and diversification. The report identified physical and infrastructure barriers which will form part of Council's master planning of the area.	Fitzroy
Bundaberg Regional Art Gallery	This proposal is progressing through a strategic assessment. Due for completion in late-2018.	Wide Bay
Bundaberg ANZAC Park precinct redevelopment	The redevelopment of the Bundaberg ANZAC Park has been confirmed as a clear opportunity for Council to deliver an exceptional community space. The report recommends three options for further investigation.	Wide Bay
LiveFire – Bundaberg Arts and Innovation hub	The concept of the LiveFire project has been partially met by a private venture. The project to investigate a new Regional Art Gallery will seek to incorporate the remaining functionality originally proposed within LiveFire.	Wide Bay
Burnett River (Paradise Dam) to Howard water supply pipeline – staged approach	Early stage planning to address long-term water security for the Fraser Coast region is progressing through a preliminary evaluation with Fraser Coast Council and is due for completion in late-2018.	Wide Bay
Monto Biohub project	Completed. The study investigated the need for a biowaste to energy generation project. The findings have identified a range of options that could be developed as either a council led or private project. North Burnett Regional Council will now consider further feasibility assessments of the options identified through the study.	Wide Bay
Brisbane inner-city broadband fast track	The assessment identified challenges with implementing fibre to the premise and providing cost effective high-speed internet access within Brisbane. Options and opportunities were identified and further work is being considered to progress them.	Greater Brisbane
Cleveland Innovation Precinct	The study has identified an innovation precinct as a potential enabler to attracting more businesses and industry to the area. The next steps include further analysis of the options as part of the preliminary evaluation stage.	Greater Brisbane
Coulson crossing upgrade	The proposal is progressing through a strategic assessment led by the Department of Transport and Main Roads, supported by Scenic Rim Regional Council. Due for completion in early 2019.	Greater Brisbane
Toowoomba Enterprise Hub central precinct connection project	The proposal is progressing through a preliminary evaluation with Toowoomba Regional Council. Initial workshops with key stakeholders including Department of Transport and Main Roads have been held to identify opportunities, benefits and solutions. Due for completion in late-2018.	Toowoomba
Highfields/Gowrie growth areas (northern communities) connection project	An investigation of the options to provide a better connection to the Toowoomba CBD from the northern communities is progressing through a preliminary evaluation in collaboration with Toowoomba Regional Council. Due for completion in late-2018.	Toowoomba

2017–18 year in review

Project	Status	Region
Boundary Street (north) Toowoomba Second Range Crossing arterial link project	An investigation of the need to upgrade local roads to provide the best possible connection between the northern residential areas of Toowoomba, the Toowoomba CBD and the Toowoomba Enterprise Hub. Due for completion in late-2018.	Toowoomba
Condamine River Road – upgrade of 14 river crossings	Completed. The study confirmed the need for Council to progress improvements to the Condamine River Road. The study recommended a preliminary evaluation to evaluate the options presented in the report to enhance road safety, maintain tourism interest, and preserve/improve the ecology of the river system. Also, Council could continue to include implementing more road signage to warn inform and guide motorists on ecological values, driving to conditions, and respect for adjacent road corridor.	Darling Downs



Toowoomba Enterprise Hub, funded through Building our Regions

Regional plans

Regional plans set the long-term strategic direction for the growth of Queensland's regions, setting out state and regional planning interests critical to responsible land-use planning and development across Queensland.

The Queensland Government uses regional plans to deliver a more integrated approach to planning for the future. They are prepared in collaboration with local governments, key industry groups and the wider community, ensuring the aspirations of regional stakeholders are considered.

Regional plans address existing and emerging regional issues and identify infrastructure priorities that service existing development and support future growth.

Relationship with the SIP

The SIP Part B 2018 update has been informed by the *South East Queensland Regional Plan 2017 (ShapingSEQ)*. The relationship between the SIP and *ShapingSEQ* helps to improve coordination and integration of land-use and infrastructure planning and delivery.

Infrastructure priorities within regional plans move into the SIP 1–4 year program after consideration by relevant agencies and when triggered by population growth and economic development.

Growth Areas and Regional Infrastructure Investment Fund

The Queensland Government has allocated \$40 million in the *2018–19 State Budget* to invest in infrastructure projects that support or facilitate growth. The Growth Areas and Regional Infrastructure Fund is targeted towards areas of high growth, with a focus on regional centres and planned urban expansion areas in South East Queensland.

Queensland Government projects involving construction of new infrastructure or the upgrade/extension of existing infrastructure or networks for energy, water, wastewater, active transport and health infrastructure will be pursued.

ShapingSEQ

ShapingSEQ, which came into effect in August 2017, informs planning across the region's 12 local government areas and aims to respond to the region's projected growth.

The South East Queensland Growth Monitoring Program has been established to report annually on the land supply and development activity to ensure there is adequate land for dwellings and employment.

Consolidating growth to enable more efficient use of infrastructure, enhance public transport accessibility and stimulate economic growth are key outcomes within *ShapingSEQ*. The monitoring program will assess progress towards these outcomes.

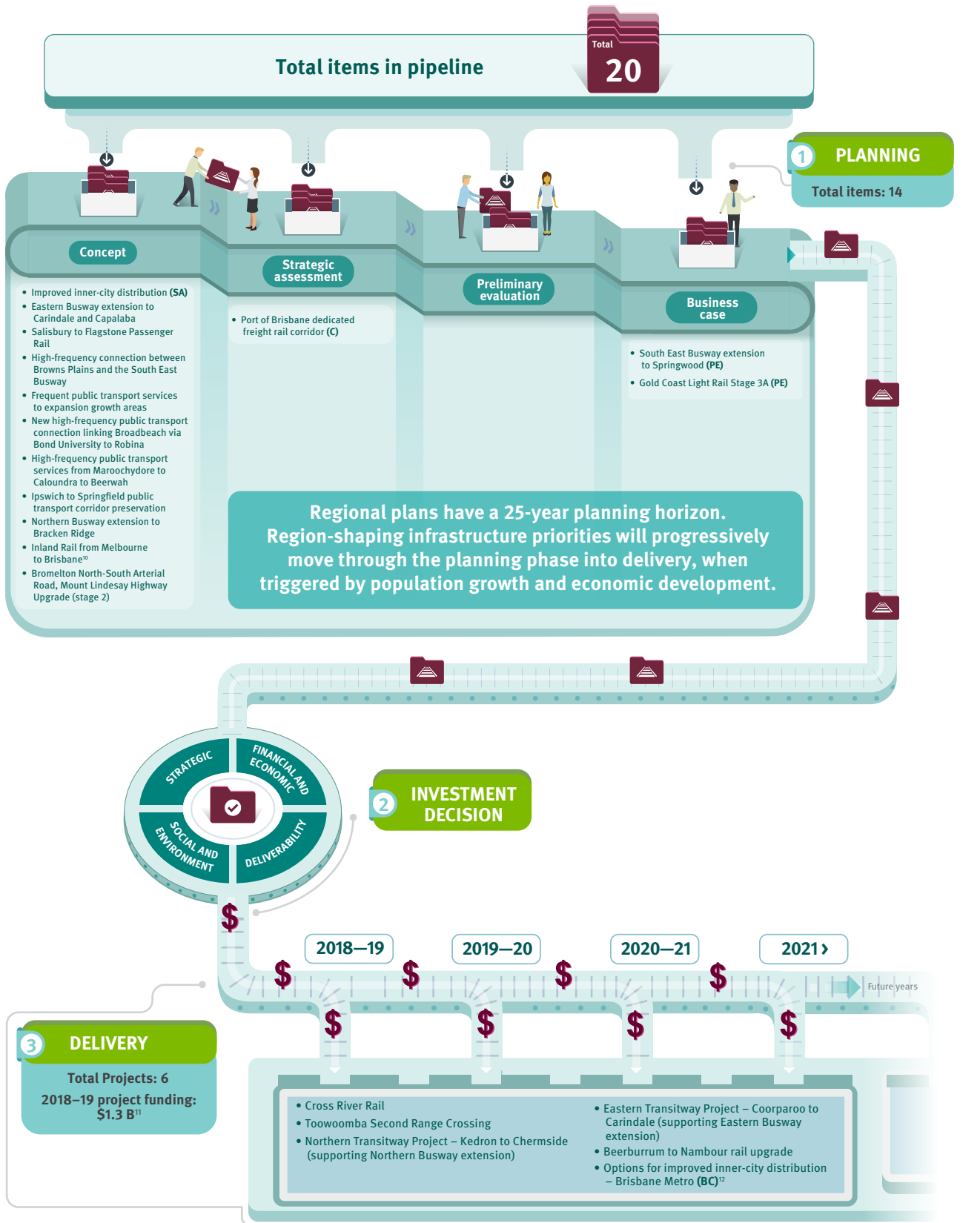
ShapingSEQ identifies 17 region-shaping infrastructure priorities. Infrastructure planning is already leading to multiple projects arising for some priorities, such as with the Eastern and Northern busway extensions. The Region-shaping priorities pipeline provides an update on these priorities as well as the following highlights from the last 12 months:

- ▶ three proposals have moved along the planning stage of the pipeline
- ▶ a further four proposals have moved from planning to delivery.



Gold Coast Light Rail

Region-shaping priorities pipeline – 25-year horizon



¹⁰ The Inland Rail from Melbourne to Brisbane proposal is shown in this pipeline as it is identified as an infrastructure priority in ShapingSEQ. As this priority is an Australian Government commitment, it will not be shown in the transport infrastructure class pipeline.

¹¹ The 2018–19 project funding includes funds committed by the Brisbane City Council and the Australian Government towards the Brisbane Metro.

¹² Brisbane Metro is an infrastructure project to be delivered by the Brisbane City Council.

Note: The symbol after the proposal shows where it was located in the pipeline in the SIP Part B 2017 update. (C) represents the concept stage, (SA) represents the strategic assessment stage, (PE) represents the preliminary evaluation stage and (BC) represents the business case stage.

2017–18 year in review

Measuring performance

Government infrastructure is often considered to be an enabler of service delivery and economic growth. It provides benefits to the community during construction and throughout its life.

The SIP has helped to improve industry and community confidence by highlighting how the government invests to deliver the right infrastructure in the right place at the right time.

The performance of the SIP is measured in a number of ways, and the results are shown throughout the SIP Part B update.

- ▶ The State Infrastructure Fund overview identifies the progress made in delivering key programs and projects.
- ▶ The 2017–18 highlights section demonstrates what has been delivered.
- ▶ Infrastructure class infographics highlight outputs and outcomes from the government’s investment.
- ▶ Movement in the infrastructure pipeline and SIP Part B 2018 at a glance section highlights the benefits of applying consistent planning methods.

The ongoing assessment of these components is essential to ensure infrastructure planning is improving and delivering critical infrastructure for growth.



Bridge piling works underway, Ipswich Motorway Upgrade – Rocklea to Darra stage 1

Implementation actions



9

completed



7

ongoing



2

underway

1–4 year program delivery highlights for 2017–18



490

1–4 year program items



\$27.1 B

estimated cost of construction projects



160

construction projects completed

1–4 year program highlights for the SIP Part B 2018 update



635

1–4 year program items



127

‘ongoing’ programs in 2018–19



\$3.7 B

investment in ‘ongoing’ programs in 2018–19

Implementation actions

A series of actions were identified to guide the implementation of the SIP Part B 2016. These actions are at various stages, with some completed and underway and others ongoing.

Completed

- ▶ Better understanding of project benefits.
- ▶ Project sequencing and prioritisation framework.
- ▶ Value capture and alternative funding and financing.
- ▶ Review grant programs to local governments.
- ▶ Establish a joint industry–government Infrastructure Innovation Taskforce.
- ▶ Sustainability assessments in projects greater than \$100 million in value.
- ▶ Pursue better community engagement and outcomes in our infrastructure activities.
- ▶ Regional planning committees role enhanced through regional planning process.
- ▶ Infrastructure Designation reviews following *Planning Act 2016* amendments.

Underway

- ▶ Ex-post evaluations framework has been developed with a pilot to be conducted.
- ▶ Infrastructure Innovation Challenge is being developed.

Ongoing

- ▶ Improved infrastructure and land-use planning, coordination and integration. The Department of State Development, Manufacturing, Infrastructure and Planning monitors the whole-of-government infrastructure program. It uses the SIP to improve integration between land-use plans and infrastructure delivery and supports state agencies in the development of key infrastructure strategies.
- ▶ Integration through the budget process. Government agency proposals submitted through the annual budgeting process should demonstrate alignment with the opportunities in the SIP.
- ▶ Market-led proposals will continue to be used to engage with industry in relation to innovative solutions to the state's infrastructure challenges.
- ▶ Leveraging funding for infrastructure projects from sources such as the Northern Australian Infrastructure Facility, the Clean Energy Finance Corporation and the Infrastructure Priority List.
- ▶ Implement Building Information Modelling into all major state infrastructure projects by 2023.
- ▶ Better asset use through strategic asset management plans and an education program aimed at building asset management.
- ▶ Develop a community needs focus on infrastructure use through the Social Infrastructure Strategy and the Community Hubs and Partnerships program.

Smarter infrastructure

Infrastructure underpins every aspect of modern life, supporting growth, increasing productivity and building resilience. However, traditional infrastructure solutions alone are no longer sustainable.

With more than \$300 billion of infrastructure around the state, the Queensland Government recognises smarter infrastructure presents an immediate and significant opportunity to leverage innovation and technology to improve the use and effectiveness of assets.

The Queensland Government has released a *Smarter Infrastructure for Queensland Directions Paper* which outlines seven key themes of smarter infrastructure and what the next steps are for government.

The seven key themes are:

1. being customer-centric
2. reimagining the role of government
3. innovation from less prescription
4. more from existing assets
5. adopting agile thinking
6. data focus
7. collaboration across sectors

More information about Queensland's smarter infrastructure agenda and the link to the directions paper can be found at www.qld.gov.au/smarterinfrastructure

2017–18 year in review



Townsville Port

Cross-government



Construction of Palm Island health facility

A collaborative approach and whole-of-state perspective are critical foundations for the delivery of infrastructure that supports sustainable economic growth in cities and regions around Queensland.

Innovation, collaboration and smart solutions are needed to address the state's infrastructure challenges. These challenges often span multiple infrastructure classes and require a coordinated response from across state government, other levels of government and the private sector.

Coordination of infrastructure and land-use planning across state agencies and all levels of government is vital to effectively prioritise infrastructure investment, ensure funding is secured and infrastructure is delivered at the right time. This is particularly essential for seaports, airports and cross-border transport networks to support effective agricultural supply chains and the efficient movement of people, goods and services.

Priority Development Areas are a key tool for planning and sequencing infrastructure in high growth areas. Economic Development Queensland works with local government and developers to streamline planning, approval and development to facilitate and deliver property development and infrastructure projects across Queensland.

State Development Areas are used to drive economic development. They are established and managed by the Coordinator-General as industrial hubs for large-scale, heavy industry, multi-user infrastructure corridors and major public infrastructure sites.

The Queensland Government also supports local government to meet the infrastructure needs of communities. For example, the Natural Disaster Relief and Recovery Arrangements provide disaster relief, recovery payments and infrastructure restoration to help communities recover from the effects of natural disasters.

Key initiatives

Community Hubs and Partnerships

- ▶ Broker partnerships with all levels of government, non-government organisations and industry to unlock social infrastructure potential and deliver integrated solutions, such as the \$3.6 million Yarrabilba Family, Children and Community Hub.

Natural Disaster Relief and Recovery Arrangements

- ▶ Jointly funded by the Commonwealth and Queensland governments to provide disaster relief and recovery payments and restore infrastructure.
- ▶ In 2018–19, \$339 million is being provided in relief measure funding to local governments.

Local Government Grants and Subsidies

- ▶ In 2018–19, \$41.7 million is being provided to help local governments fund key infrastructure projects which support economic growth and stimulate local job creation.

Neighbourhood, youth and community centres

- ▶ This program funds more than 100 centres throughout Queensland.
- ▶ In 2018–19, \$12.7 million is being invested to continue the upgrade and construction program for multi-purpose community and neighbourhood centres.

Urban renewal development at Northshore Hamilton

- ▶ The Northshore Hamilton Priority Development Area is Queensland's largest urban waterfront renewal project.
- ▶ In 2018–19, \$16 million has been invested for the continued delivery of the urban renewal development.



Northshore Hamilton

Priority Development Areas (PDAs)

Parcels of land identified for specific accelerated development, with a focus on community development and economic growth. As at December 2017, the PDAs had:

- ▶ a combined area of approximately 20,340 hectares
- ▶ a minimum of 177,000 dwellings
- ▶ a minimum of 442,900 residents
- ▶ a minimum of 232,000 local jobs.

PDAs and significant growth areas:

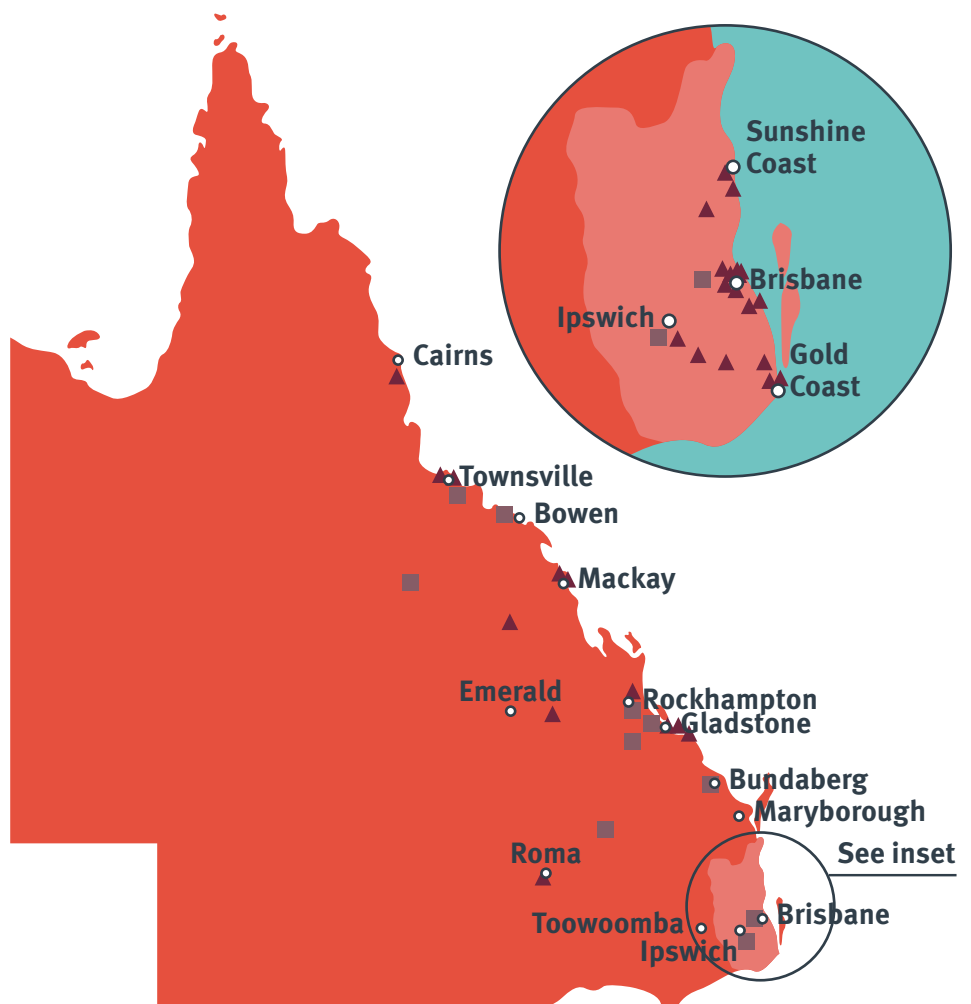
- ▲ Andergrove PDA, Mackay
- ▲ Blackwater PDA
- ▲ Blackwater East PDA
- ▲ Bowen Hills PDA, Brisbane
- ▲ Caboolture West
- ▲ Caloundra South PDA
- ▲ Central Queensland University (CQU) Rockhampton PDA
- ▲ Clinton PDA, Gladstone
- ▲ Coomera Town Centre
- ▲ Fitzgibbon PDA, Brisbane
- ▲ Herston Quarter PDA, Brisbane
- ▲ Greater Flagstone PDA, Logan
- ▲ Mackay Waterfront PDA New
- ▲ Maroochydore City Centre PDA
- ▲ Moranbah PDA
- ▲ Mount Peter, Cairns
- ▲ Northshore Hamilton PDA, Brisbane
- ▲ Oonoonba PDA, Townsville
- ▲ Parklands PDA, Gold Coast
- ▲ Queen's Wharf Brisbane PDA
- ▲ Ripley Valley PDA, Ipswich
- ▲ Roma PDA
- ▲ Southport PDA
- ▲ Tannum Sands PDA
- ▲ The Mill at Moreton Bay PDA
- ▲ Toolooa PDA, Gladstone
- ▲ Toondah Harbour PDA, Redland
- ▲ Toowoomba Railway Parklands PDA
- ▲ Townsville City Waterfront PDA
- ▲ Weinam Creek PDA, Redland
- ▲ Woolloongabba PDA, Brisbane
- ▲ Yarrabilba PDA, Logan

State Development Areas (SDAs)

Defined areas of land established by the Coordinator-General to promote economic development, including industrial hubs for large-scale, heavy industry, multi-user infrastructure corridors and major public infrastructure sites.

There are currently 10 SDAs covering an area of approximately 187,986 hectares:

- | | |
|-----------------------------------|---|
| ■ Abbot Point | ■ Queensland Children's Hospital |
| ■ Bromelton | ■ Stanwell to Gladstone Infrastructure Corridor |
| ■ Bundaberg | ■ Surat Basin Infrastructure Corridor |
| ■ Callide Infrastructure Corridor | ■ Gladstone |
| ■ Galilee Basin | ■ Townsville |





Caloundra South Priority Development Area

The 2310-hectare Caloundra South Priority Development Area is located south of the Caloundra Aerodrome and the Sunshine Coast Regional Business and Industry Park.

Caloundra South is set to become a large residential community providing approximately 20,000 dwellings for an expected 50,000 people. It will provide vibrant, mixed-use activity centres offering retail services, well-designed civic spaces, community and cultural facilities and local employment opportunities.

The \$34 million Baringa Community Hub in Aura, is one innovative feature. The 9.2-hectare community hub is expected to be completed in early-2019.

Elements include Baringa State School, shared community and school-use sports fields, a community centre, a multi-purpose hall, parking and a central booking process for co-located facilities.

The Community Hubs and Partnerships program played a critical role in the hub's conception by brokering partnerships with stakeholders including Stockland, Sunshine Coast Regional Council, the Department of Education and Economic Development Queensland.



Community facilities, Caloundra South Priority Development Area

South East Queensland City Deal

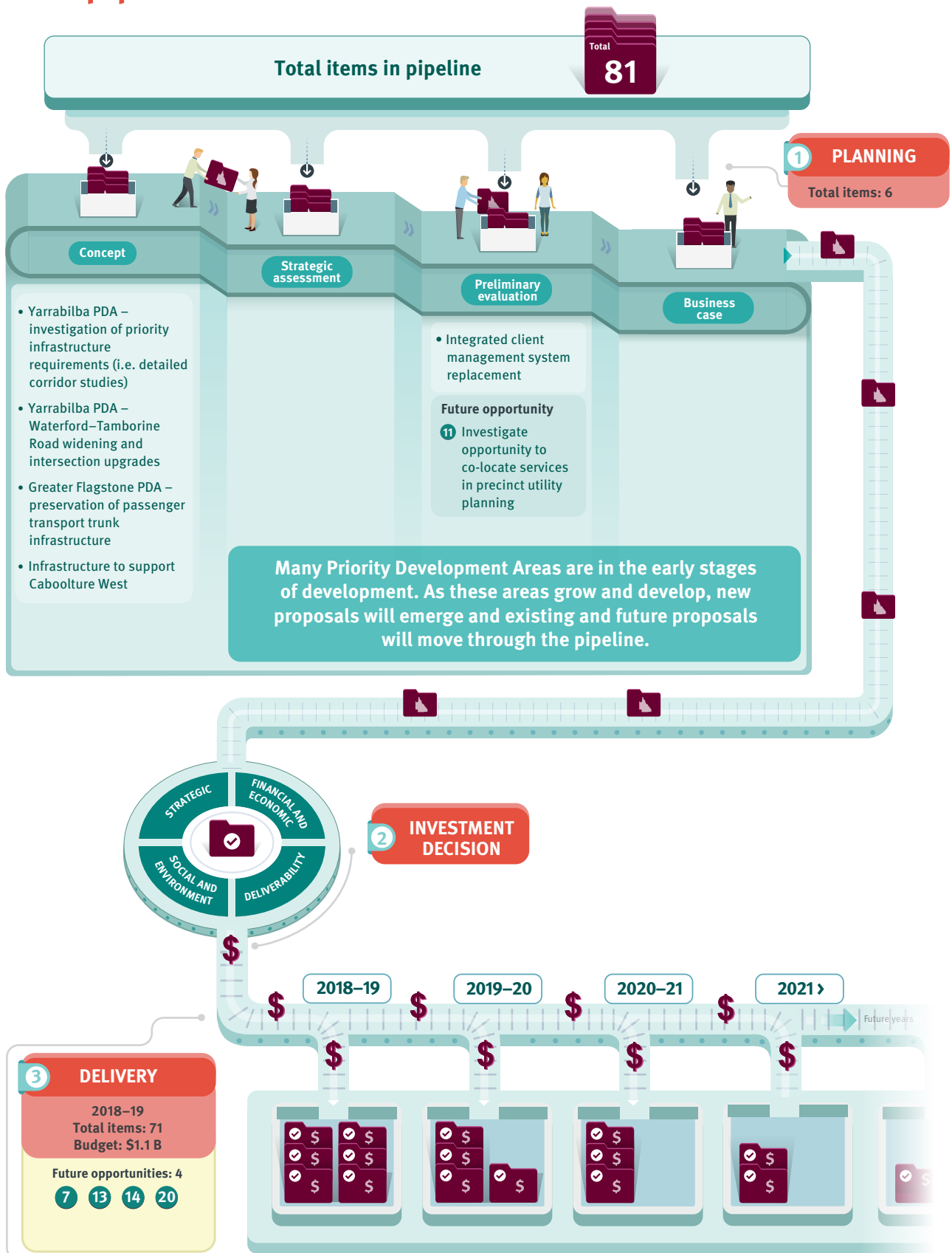
South East Queensland (SEQ) is experiencing significant growth, and this is expected to increase to 5.3 million people over the next 25 years. The Queensland Government is preparing for this growth by working with local governments and making significant investments into infrastructure and regional planning to make sure that SEQ remains an attractive place to live.

Significant infrastructure investments provide a range of opportunities for economic growth, new jobs and redevelopment.

To ensure that the full potential of these investments is captured and to support delivery of *ShapingSEQ*, the Queensland Government is working in partnership with the Council of Mayors SEQ to develop and scope a SEQ City Deal.

A SEQ City Deal will align priorities and investments across the region and across all levels of government for the next 20 to 30 years. This city deal will ensure that the growth of the SEQ region continues, creating greater certainty for businesses and ensuring that the community benefits from greater access to jobs, education, housing and a more liveable and sustainable urban environment.

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Carseldine Urban Village	32.477		●			7.203	13.387	1.319	10.568	
Coal Mine Workers' Health Scheme	4.018		●			0.916	2.630	0.472		
Daniel Morcombe Foundation Headquarters	0.900		●			0.400	0.500			
Financial Assurance Framework Reform Program	3.976		●			1.385	2.591			
Gold Coast Health and Knowledge Precinct	29.413		●			17.973	3.032	2.169	2.243	3.996
Inala Community Centre replacement	3.500		●			0.375	3.125			
Jimna Fire Tower restoration project	1.500		●				1.000	0.500		
Kallangur Area Neighbourhood Centre	4.100		●			0.600	0.130	1.270	2.100	
Northshore Hamilton	327.169		●			47.846	15.992	0.218	14.189	248.924
Racing Science Centre laboratory technology upgrades	8.717		●			2.711	2.814	1.360	1.832	
Strategic Resources Exploration Program	7.125		●			1.995	2.422	2.158	0.550	
Sunshine Coast Industrial Precinct (stage 2)	15.750		●				0.250	0.500	15.000	
Willowbank Industrial Development	73.719		●			16.729	4.590	10.000	42.400	
Yarrabilba/Jimboomba Neighbourhood Centre	3.600		●				0.100	0.130	3.370	
Yeerongpilly Green Transit Oriented Development	71.426		●			32.220	15.984	0.277	3.075	19.870
Regional Queensland										
Airlie Beach Foreshore Revitalisation Project	2.657		●				2.657			
Atherton Community Centre	0.250		●			0.137	0.113			
Bowen Neighbourhood Centre	2.600		●				0.640	0.660	1.300	
Cairns Regional Industrial Estate	10.000		●				5.000	5.000		
Cape York Peninsula Tenure Resolution Program land acquisitions	6.000		●				6.000			
Clinton Industrial Estate	11.262		●			0.512	0.500	0.500	7.250	2.500
East Murgon Neighbourhood Centre replacement	3.100		●			0.220	2.880			
Environmental Health Infrastructure Program	15.000		●			7.500	3.750	3.750		
Gladstone State Development Area	14.658		●			6.458	1.150	5.300	1.250	0.500
Gladstone State Development Area land acquisitions	65.653		●			63.073	2.580			

Cross-government

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018-19	Indicative		
								2019-20	2020-21 to 2021-22	Beyond
Regional Queensland										
Government employee housing construction – Aurukun	22.600		●			7.355	15.245			
Indigenous land and infrastructure programs	117.261	●	●			103.654	13.607			
Kowanyama Aboriginal Shire Council Economic Growth and Jobs Initiative	1.100		●				1.100			
Mackay Beach restoration and mitigation	4.562		●				3.562	1.000		
Mackay Bluewater Trail and Queens Park revitalisation	8.864		●				8.864			
Mackay Regional Industrial Estate	6.300		●				3.000	3.300		
Mica Creek services	0.600		●			0.400	0.200			
National Insurance Affordability Initiative – Australian Government	17.000	●				12.020	4.980			
Mackay Neighbourhood Centre upgrade	1.200		●			1.180	0.020			
Moranbah Youth and Community Centre	3.200				●	0.180	3.020			
Northern Peninsula Area Water Supply System – replacement of asbestos cement pipelines	5.000		●				1.000	1.000	2.000	1.000
Paws and Claws capital grant	0.300		●				0.300			
Queensland Country Women's Association restoration of heritage halls	1.000		●			0.500	0.500			
Refurbishment of Toowoomba agriculture facilities	7.350		●			3.202	2.950	1.198		
Salisbury Plains Industrial Precinct	6.567		●			1.817	3.500	0.500	0.500	0.250
State Development Area acquisitions	12.329		●				12.329			
The Village Residential Estate, Oonoonba, Townsville	135.219		●			87.387	6.296	8.058	19.893	13.585
Thursday Island Community Hub	4.600		●			0.535	0.265	2.500	1.300	
Torres Shire Council water treatment infrastructure upgrade	12.000		●				4.500	7.500		
Townsville Regional Industrial Estate	7.075		●			4.175	0.300	0.200	0.400	2.000
Whitsunday Coast Airport terminal expansion project	15.000		●			4.500	10.500			
Whitsunday Regional Council administration building	5.000		●				4.500	0.500		
Wilsonton Neighbourhood Centre	0.600		●				0.600			

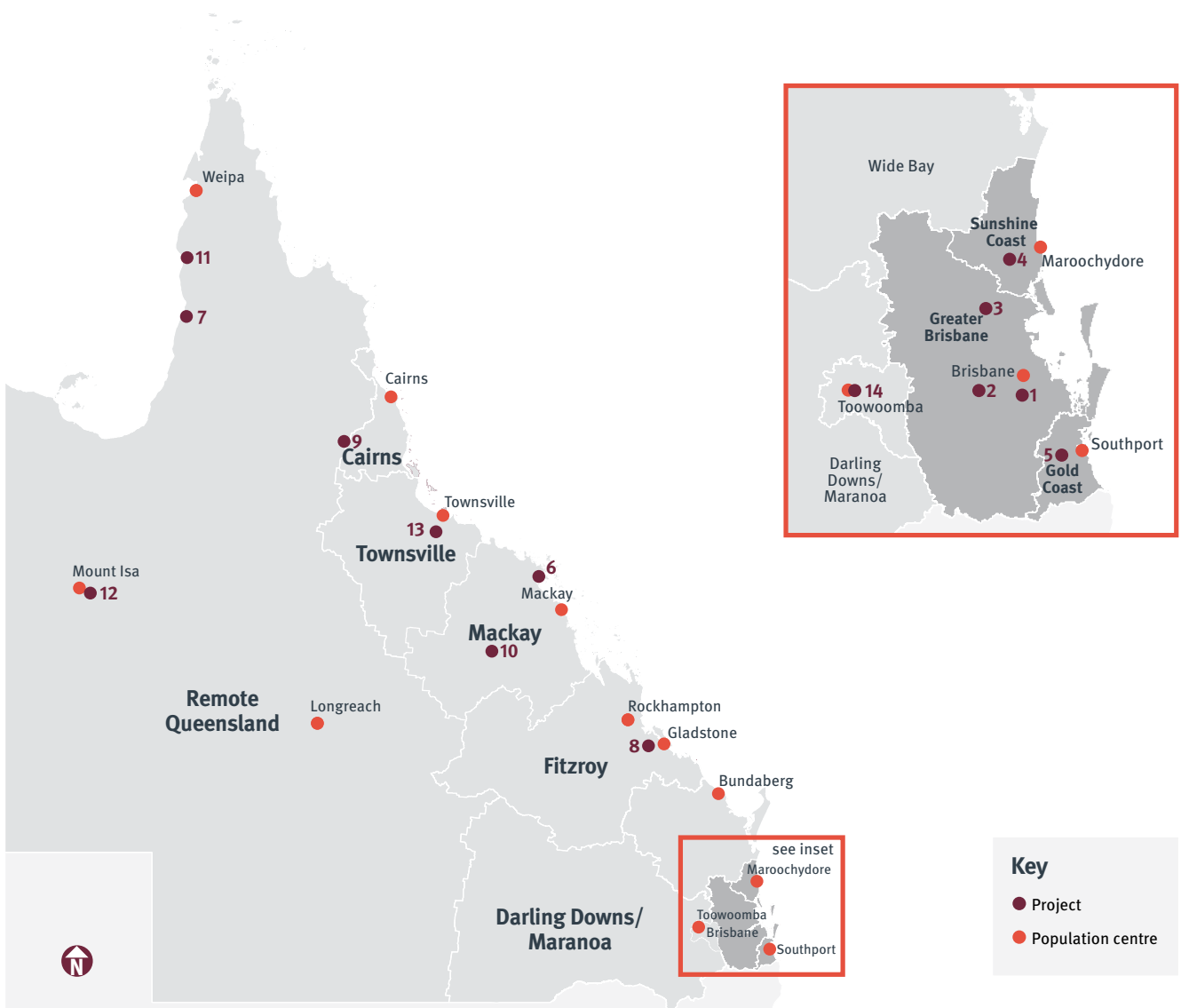
1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Statewide										
Building our Regions	284.906		●			115.591	78.959	62.356	28.000	
Disaster Resilience Fund	38.000		●				9.500	9.500	19.000	
Ecosciences and Health and Food Sciences Precincts fitout replacement program	Ongoing		●				0.406			
Government employee housing	Ongoing		●		●		32.271			
Implementing more effective funding grants to local government	1.300		●				1.300			
Indigenous councils critical infrastructure program	120.000		●			40.000	50.000	30.000		
Natural Disaster Relief and Recovery Arrangements – local government authorities (joint funded with the Australian Government)	1,013.177		●			395.903	338.955	221.119	57.200	
Natural Disaster Resilience Program (joint funded with the Australian Government)	13.214	●	●				13.214			
Neighbourhood centre upgrades – various projects	1.850		●				1.380	0.470		
Queensland First Home Owners' Grant	Ongoing		●				139.725			
Residential care upgrades	Ongoing		●				1.990			
Restoring Child Protection – child safety service centres	8.248		●			1.275	4.124	2.849		
Royalties for the Regions	89.144		●			61.735	25.409	2.000		
RSPCA capital grant	3.000		●			2.121	0.879			
Works for Queensland 2016–17	200.000		●			199.536	0.464			
Works for Queensland 2017–19	200.000		●			102.653	97.347			
Works for Queensland 2019–21	200.000		●				50.000	75.000	75.000	
Library Board of Queensland ongoing programs	Ongoing		●		●		2.069			
Local Government Grants and Subsidies Program	Ongoing		●				41.676			
Ongoing programs	Ongoing		●		●		53.947			
Other property, plant and equipment	10.084		●		●	1.478	8.606			
Parliament House – ongoing programs	Ongoing		●				3.300			
Parliament House – property, plant and equipment	11.380		●			6.821	4.559			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Yarrabilba PDA – investigation of priority infrastructure requirements	4	Sunshine Coast Industrial Precinct (stage 2)
2	Greater Flagstone PDA – preservation of passenger transport trunk infrastructure	5	Gold Coast Health and Knowledge Precinct
3	Infrastructure to support Caboolture West	6	Airlie Breach Foreshore Revitalisation Project
		7	Kowanyama Aboriginal Shire Council Economic Growth and Jobs initiative
		8	Gladstone State Development Area
		9	Atherton Community Centre
		10	Moranbah Youth and Community Centre
		11	Government Employee Housing Construction – Aurukun
		12	Mica Creek Services
		13	The Village Residential Estate, Oonoonba, Townsville
		14	Wilsonton Neighbourhood Centre



Strengthening Aboriginal and Torres Strait Islander communities

The Queensland Government is committed to strengthening the liveability and sustainability of Aboriginal and Torres Strait Islander communities through infrastructure investment and land-use planning.

Master plans providing foundations for the future

The government is working collaboratively with Indigenous councils and Native Title bodies to prepare future residential, industrial and community facility land-use master plans in line with each community's town planning scheme. Nineteen master plans are currently under development, each providing a strategy to ensure a vibrant economy and healthy community for future generations. The plans describe the social, economic and infrastructure needs of each community and will be updated regularly. The master plans will form the basis of future Commonwealth and state government funding submissions and include costings and staging for each project identified in the master plan.

Ensuring communities have critical infrastructure

The government has committed \$120 million over the next four years to the Indigenous Councils Critical Infrastructure Program. This program will provide fit-for-purpose infrastructure with the aim of ensuring Aboriginal peoples and Torres Strait Islander peoples living in remote and discrete communities have access to good quality water, long-term water security and the ability to manage wastewater and solid waste.

Coordinated capital works creating employment opportunities

Coordinating government capital works is boosting economic development opportunities for Aboriginal peoples and Torres Strait Islander peoples. A coordinated and staged capital investment program in the 34 discrete communities in Queensland provides the lead time needed to facilitate local employment and business opportunities and link aspirants to relevant support agencies. Coordinating projects in Aboriginal and Torres Strait Islander communities, provides work continuity and improves employment and training opportunities for local people through ongoing project activities.

Securing jobs for Aboriginal peoples and Torres Strait Islander peoples

The government is working with remote communities to develop community capacity statements and skill profiles that inform the procurement phase of government capital works and maintenance projects. With this knowledge of the community and upcoming projects, appropriate candidates secure a project contract through an Indigenous Economic Opportunity Plan. This approach secured more than 400 job placements in 2017–18, with 63 of these being trainees or apprentices.



New water treatment plant, Palm Island

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Sequence the delivery of new growth areas to maximise the use of existing infrastructure and manage capital expenditure on new infrastructure.

Status update: The sequencing of infrastructure for new growth areas is guided by the regional planning program and delivered through local government planning schemes, development approvals, Queensland Government infrastructure programs and other mechanisms.

Opportunity 2

Secure transport, port facilities, water infrastructure and community amenities to unlock thermal coal in the Galilee and Surat basins, bauxite deposits near Aurukun and under explored gas reserves in the Cooper Basin.

Status update: The Department of Natural Resources, Mines and Energy and the Department of Transport and Main Roads are continuing to progress opportunities to secure infrastructure (specifically transport infrastructure) which will support the expansion of the state's natural resource industries.

Opportunity 3

Investigate the impacts of climate change on existing and proposed state infrastructure and implement appropriate mitigation measures.

Status update: This opportunity is being jointly progressed by the Department of Environment and Science and the Department of State Development, Manufacturing, Infrastructure and Planning. Terms of reference to consider the impact of climate change on state infrastructure have recently been released. Work will be undertaken during 2018–19 to consider the climate change resilience of critical public infrastructure.

Opportunity 4

Investigate impacts on the Great Barrier Reef and prioritise infrastructure to support water quality improvements.

Status update: The Department of Innovation and Tourism Industry Development is progressing this opportunity through the Great Barrier Reef Island Rejuvenation Package.

Opportunity 5

Implement strategies to protect the heritage values of the state's heritage-listed courthouses and health and education facilities.

Status update: The Department of Environment and Science continues to advance this opportunity, including working closely with the Department of Education on the implementation of the Heritage Schools Strategy.

Opportunity 6

Maximise advances in technology to enhance asset preservation.

Status update: The Building Information Modelling policy project is considering opportunities to drive efficiencies in the design, construction and operation of infrastructure assets.



Future opportunities – cont.

Opportunity 7

Implement a coordinated cross-agency approach to social infrastructure planning, sequencing and delivery.

Status update: An initiative of the SIP, the draft Strategy for Social Infrastructure will progress the Queensland Government's cross-agency approach to the planning and delivery of social infrastructure, design and use of social infrastructure through key implementation actions. This includes strengthening the role of the Community Hubs and Partnerships program.

The Community Hubs and Partnerships program continues to drive a coordinated, cross-agency approach to the planning, sequencing and delivery of social infrastructure. The effectiveness of this approach is demonstrated by the Baringa Community Hub being developed in the Caloundra South Priority Development Area.

Opportunity 8

Explore opportunities to better use assets through co-location, better coordination and connected service delivery.

Status update: In partnership with relevant state agencies, including Economic Development Queensland, Community Hubs and Partnerships is reviewing the planning and delivery of community facilities in the four major SEQ Priority Development Areas – Caloundra South, Ripley Valley, Yarrabilba and Greater Flagstone.

These reviews assess the extent to which the planned delivery timeframes for community facilities meet needs, as each community grows and changes. The reviews also provided a snapshot of opportunities for collaboration in social infrastructure.

Opportunity 9

This opportunity is being addressed through the Building Information Modelling policy.

Status update: The Building Information Modelling policy project is considering opportunities to drive efficiencies in the design, construction and operation of infrastructure assets.

Opportunity 10

Develop port master plans which integrate with adjoining infrastructure and land-use planning documents.

Status update: Master planning processes are underway for the four priority ports in accordance with the *Sustainable Ports Development Act 2015*. The priority ports include Gladstone, Abbot Point, Townsville and Hay Point/Mackay.

Opportunity 11

In partnership with utility suppliers, investigate opportunities through precinct utility planning to co-locate services (for example, water, energy, telecommunication infrastructure).

Status update: This opportunity is being progressed through the Digital Infrastructure Plan which will seek to encourage and support the co-location of digital infrastructure with other forms of infrastructure. For example, incorporating optical fibre cable and/or conduits as part of civil work projects significantly reduces the marginal cost of deploying new digital infrastructure and enhances network coverage.

Queensland Electric Super Highway – innovative infrastructure on a small budget

The Queensland Electric Super Highway, which extends between Gold Coast and Cairns and from Brisbane to Toowoomba, is the world's longest electric super charger highway in a single state.

The Queensland Government has recognised the importance of this project, which was announced in July 2017, by committing an additional \$2.5 million in 2018–19 to install more charging stations along the super highway. This will increase the existing 18 stations, giving drivers more options and reducing 'range anxiety'.

In May 2018, the Queensland Electric Super Highway received national recognition as a finalist in the Infrastructure Partnerships Australia Infrastructure Awards.

Critical to the success of the project is the collaboration between the Department of Transport and Main Roads, Economic Development Queensland, local councils, Yurika and Energy Queensland which encourages, supports and accelerates the uptake of electronic vehicles along the super highway.

Opportunity 12

Engage with asset owners early in the planning process to identify opportunities for innovation (for example, opportunities for precinct-wide approaches to water recycling or access to transport corridors).

Status update: Building Queensland considers opportunities for innovation during the development of business cases for infrastructure projects.

The Department of Housing and Public Works also facilitates cross-agency discussions on future digital policy and investment directions, including accelerating investment in next stage digital infrastructure, such as 5G.

Opportunity 13

Increase engagement with local service providers for the construction and maintenance of state government infrastructure, such as housing and other government facilities.

Status update: The Department of Housing and Public Works is facilitating a coordinated government approach to procurement with local service providers for infrastructure projects in regional communities.

Opportunity 14

Engage with Aboriginal and Torres Strait Islander local governments to develop strategies to eliminate the duplication of services and administration provided by Queensland and Australian government agencies and non-government organisations.

Status update: The Department of Aboriginal and Torres Strait Islander Partnerships is actively looking at ways to eliminate the duplication of services and administration. The services hub or 'One-Stop Shop' in Cairns continues to facilitate standardised service delivery and a shared services hub stakeholder reference group has been established to identify other service efficiencies.

Opportunity 15

Secure transport, port facilities, water infrastructure and other relevant infrastructure to support agricultural growth in northern Queensland.

Status update: Infrastructure investment is currently being directed towards channel widening at the Port of Townsville and road freight route upgrades.

Agricultural growth will also be supported through the Townsville City Deal. A key infrastructure priority includes improving the efficiency of transport infrastructure to maximise opportunities and support agricultural supply chains.

Opportunity 16

Invest in infrastructure that will improve the efficiency, reliability and flexibility of agricultural supply chains in order to better serve existing and new export markets.

Status update: Work has commenced on a \$48 million project to increase the height of eleven rail tunnels on the Toowoomba and Little Liverpool ranges, enabling more efficient transport of agricultural freight in high-cube freight shipping containers from the Darling Downs and South West Queensland to the Port of Brisbane.

Work is also underway to identify and prioritise future opportunities to capitalise on the proposed Inland Rail project for agriculture and other exports.

Opportunity 17

Secure appropriate infrastructure and develop regional connections to enable Queensland to capitalise on growth in drive, rail, cruise and aviation tourism sectors.

Status update: The opportunity is being progressed through the Queensland Electric Super Highway project, which aims to accelerate the uptake of electric vehicles. This project is being delivered by the Department of Transport and Main Roads in collaboration with Economic Development Queensland, Energy Queensland, Yurika and local councils.

Economic Development Queensland's Catalyst Infrastructure Program is also contributing to the long-term tourism growth for North Queensland by facilitating the expansion of the Townsville Airport through an interest-free loan.



Future opportunities – cont.

PLANNING

Opportunity 18

Identify catalytic infrastructure to support new agricultural, biowaste and biorefinery hubs across regional Queensland.

Status update: The Department of State Development, Manufacturing, Infrastructure and Planning is undertaking an industrial land availability study and has commissioned a regional strategy and action plan for biofutures investment in the Mackay, Isaac Whitsunday region.

Opportunity 19

Investigate opportunities to improve material, manufacturing and construction practices that reduce energy consumption and greenhouse gas emissions and improve sustainable construction (for example, the Cement Sustainability Initiative).

Status update: The Department of Transport and Main Roads continues Cement Sustainability Initiative research with laboratory stress tests, technology pilots and releasing specifications based on their research. In addition, it is researching other sustainability initiatives including changing to high modulus asphalt (EME2) pavements, crumbed rubber modification and using recycled glass.

Opportunity 20

Embrace technological advances for improved delivery/use of public services particularly those that decrease demand for investment in hard infrastructure.

Status update: The Queensland Government's approach to infrastructure planning, outlined in the SIP, encourages creative thinking on solutions that reform and re-use infrastructure rather than building new.

The Energy Savers Plus Program and the Energy Savvy Families Program take advantage of technological advances by encouraging eligible low-income families and farmers in regional Queensland to reduce electricity use, thereby decreasing future demand on electricity sub-stations.

Townsville City Deal delivers on key milestones

The Queensland Government, Australian Government and Townsville City Council signed Australia's first City Deal for Townsville on 9 December 2016. Under the 15-year deal, all levels of government are working together to deliver transformative outcomes for Townsville. The deal was developed in collaboration with the Townsville community and private sector.

The Townsville City Deal contains 16 commitments and nine future opportunities to drive projects and new investments to improve lives through jobs, economic growth, local infrastructure, a revitalised urban centre and a more vibrant and liveable city. The City Deal is creating jobs and attracting additional investment to Townsville, according to the first annual progress report released on 3 April 2018.

It has already delivered several key milestones including:

- ▶ delivery of an interim report on securing Townsville's water supply providing recommendations and options, some of which are being implemented by Townsville City Council following a \$225 million commitment by the Queensland Government
- ▶ commencement of construction of the \$250 million North Queensland Stadium
- ▶ finalisation of the Port Channel Capacity Upgrade project business case and environment approvals and commitment of \$75 million from the Queensland Government
- ▶ completion of the Townsville Eastern Access Rail Corridor business case.

Transport



Construction of the Veloway 1 bikeway

Queensland's transport system underpins the state's economy by connecting communities, cities and industries to each other, the rest of Australia and the world.

Roads, railways, airports and ports are critical to moving people and freight throughout Queensland and increasing the productivity of business and industry. Optimising port activity and enhancing the integration between road, rail, air and port systems is essential to improving the state's national and global competitiveness.

Freight access across Queensland's supply chains will continue to be a priority with a focus on improved safety, increased capacity, transport efficiency and route reliability. Increased movement of freight by sea requires the sustainable development and maintenance of shipping channels and berths, to ensure the safe and efficient operation of ports.

All future transport infrastructure investment will require smart, value-for-money solutions and innovative approaches to planning, funding, operating, maintaining and building infrastructure.

New technologies and emerging business models are already beginning to transform the way people and goods move. Many more changes are on the horizon, offering the potential to provide a safer, more affordable and sustainable transport system.

The planning and development of land uses strongly influences travel demand and the efficiency of public transport services. At the same time, the location and availability of transport infrastructure often determines the location and distribution of land uses. Improved coordination between land-use and transport planning will continue to improve liveability, support employment, economic and population growth and reduce congestion and travel times. The Queensland Government will also continue to invest in safe and efficient active transport infrastructure to help manage congestion and provide community health benefits.

Identifying, planning and preserving future transport corridors for roads, rail, bus, cycling and pedestrians is essential to ensuring Queensland's connectivity and allowing for future development and expansion of infrastructure. The Queensland Government is proactively preserving, or seeking to preserve, a number of future transport corridors to bring Queensland closer together.

Key initiatives

Queensland Transport and Roads Investment Program (QTRIP)

- ▶ *QTRIP 2018–19 to 2021–22* outlines approximately \$21.7 billion in investment in transport and road infrastructure over the next four years, with an average of approximately 19,200 direct jobs supported over the life of the program.
- ▶ QTRIP:
 - integrates transport and land-use planning to support sustainable transport solutions
 - supports the multi-modal needs of Queenslanders
 - sustains the movement of goods and services around the state
 - connects communities, enhances road safety and reduces congestion
 - supports safe and efficient cycling infrastructure that provide health benefits
 - supports the increased capacity needs on Queensland's freight network.

Regional Transport Plans

Developed in collaboration with local governments, Regional Transport Plans identify transport system priorities at a regional level by considering demographics, industry changes and local government land-use and transport planning.

Queensland Tourism and Transport Strategy

A joint initiative with the Department of Innovation, Tourism Industry Development and the Commonwealth Games to develop a strategy that will consider visitor's needs across all modes of transport – with a focus on key tourism destinations and major population centres.

Queensland Walking Strategy

Development of a whole-of-government strategy to support the critical role that walking plays as part of the transport system and as part of a healthy and active lifestyle for Queenslanders. The strategy will provide the vision, themes, principles, action areas and investment framework to support walking and walkability across Queensland over the next ten years.

Plans and strategies that inform transport infrastructure investment in Queensland:

- ▶ *The Department of Transport and Main Roads Strategic Plan 2016–2020 (revised for 2018–2019)*
- ▶ *Transport Coordination Plan 2017–2027*
- ▶ *Moving Freight*
- ▶ *National Ports Strategy*
- ▶ *Queensland Road System Performance Plan*
- ▶ *Safer Roads, Safer Queensland: Queensland's Road Safety Strategy 2015–2021*
- ▶ *Safer Roads, Safer Queensland: Queensland's Road Safety Action Plan 2017–2019*
- ▶ *Queensland Cycling Strategy 2017–2027*
- ▶ *Cycling Infrastructure Policy*
- ▶ *Bruce Highway Action Plan*
- ▶ *Warrego Highway Upgrade Strategy*
- ▶ *Connecting Brisbane*
- ▶ *Mackay Isaac Whitsunday Regional Transport Plan*



Peak Downs Highway structure replacement

Queensland state-controlled road network:

spans
33,353 km
 (as at 30 June 2017)

carries
80%
 of all road traffic

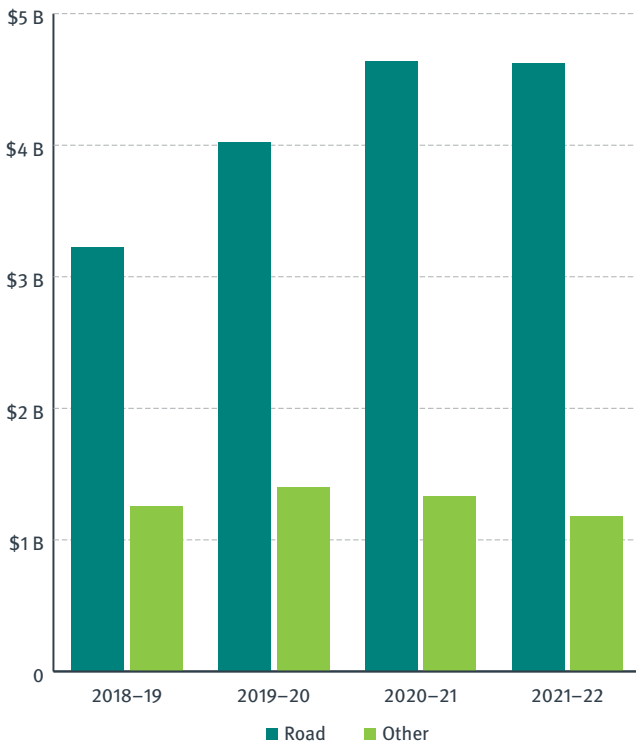
has a gross replacement
 value of
\$75.69 B
 (as at 30 June 2017)



Queensland Transport and Roads
 Investment Program (QTRIP)
 2018–19 to 2021–22

\$21.7 B
 investment in transport and
 road infrastructure

QTRIP investment
 (2018–19 to 2021–22)



Note: This is indicative analysis that includes state and federal funds. Based on published QTRIP.



Queensland Rail operates and manages
7220 km
 of rail network across the state



Privately-owned Aurizon operates
 and manages access to the
2670 km
 central Queensland coal rail network

PORTS

Queensland has
15
 trading ports
 and
4
 priority ports

-  Townsville
-  Abbot Point
-  Hay Point
and Mackay
-  Gladstone

Total cargo tonnage through
 Queensland ports in 2016–17

336.54 M

Public transport



11.85 M

passenger transport trips
outside SEQ in 2016–17



177.42 M

trips on bus, rail and ferry
services within SEQ in 2016–17

Note: Estimated Actual from the 2017–18 Queensland State Budget – Service Delivery Statements – The Department of Transport and Main Roads.

Passenger transport services in Queensland operate across:



6058 km
of rail track



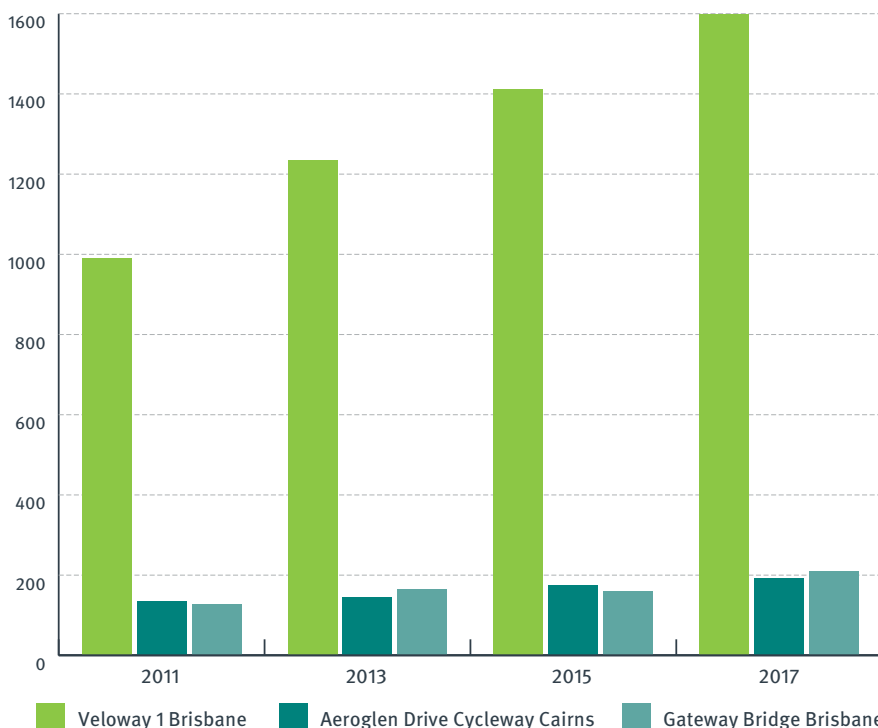
20.3 km
of light rail track



29 km
of busway

Active transport

Average number of cyclists per day at selected locations on the principal cycle network:



802,100

Queenslanders
cycle in a typical
week



\$241 M

Cycling
Infrastructure
Program in QTRIP

48.7 km

of dedicated
(off-road)
cycle paths in
Queensland



Critical infrastructure for Cape York

The \$260.5 million Cape York Region Package is a program of works jointly funded by the Australian and Queensland governments to upgrade critical infrastructure on the Cape York Peninsula. The works:

- ▶ improve access to Cape York for freight, tourists and other road users
- ▶ improve safety
- ▶ reduce ongoing road maintenance costs
- ▶ improve community infrastructure
- ▶ provide employment, training and business development opportunities.

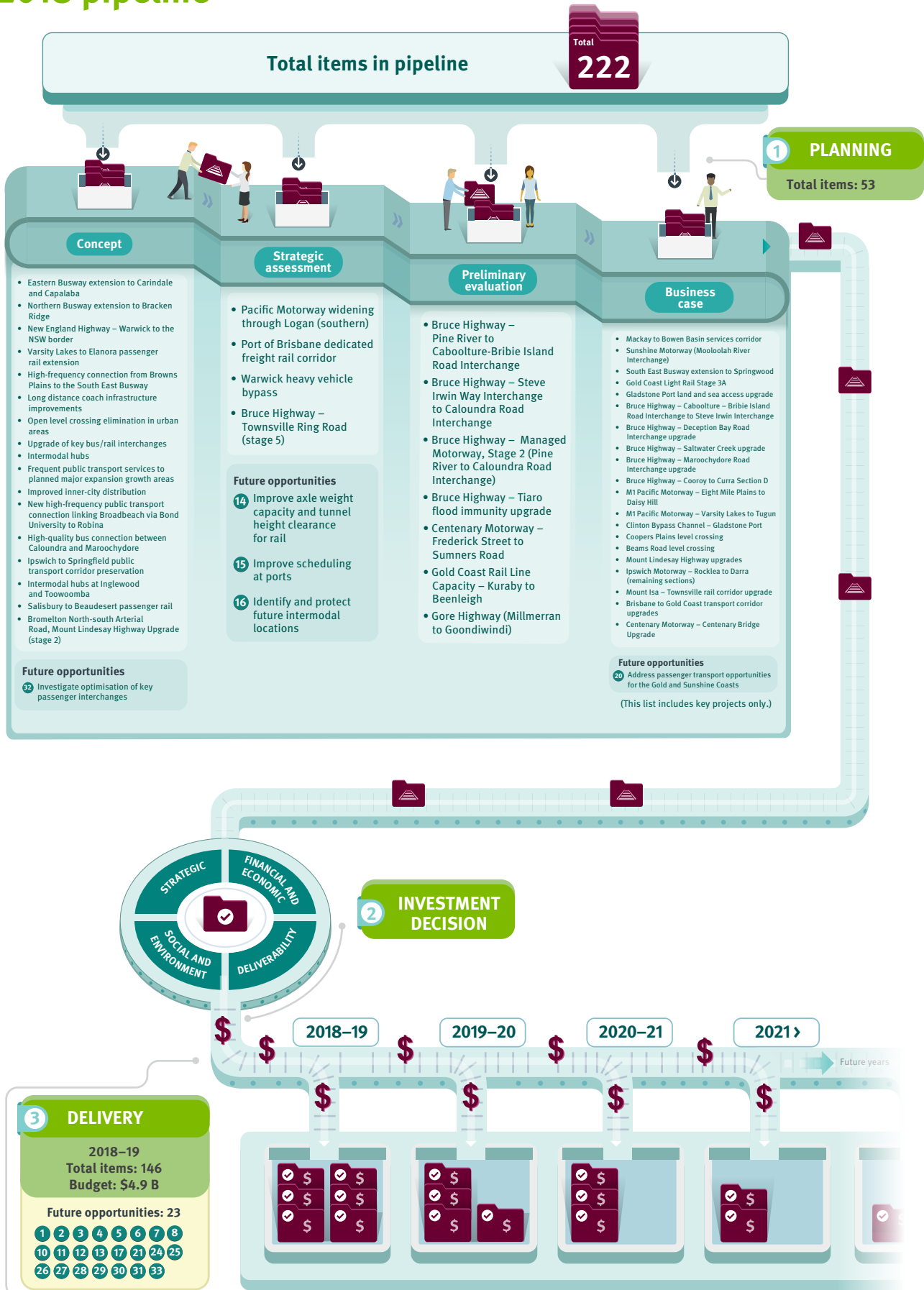
The package consists of three sub-programs:

- ▶ \$200 million over five years to progressively extend the seal on the Peninsula Developmental Road between Laura and the Rio Tinto boundary
- ▶ \$10 million allocated over four years for sealing works on the Endeavour Valley Road through to Hope Vale
- ▶ \$50.5 million program for priority community infrastructure works identified by the Torres and Cape Indigenous Council Alliance to improve community infrastructure (projects that upgrade and improve infrastructure such as roads, barge and boat ramps, water and sewerage) in the remote Aboriginal local government authorities of Aurukun, Kowanyama, Lockhart River, Mapoon, Napranum, Northern Peninsula Area, Pormpuraaw and Wujal Wujal.



Interchange works on the Bruce Highway at Caloundra Road and Steve Irwin Way

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Bruce Highway										
Bruce Highway safety barrier installation	79.790	●	●			13.450	42.503	23.836		
Caloundra Road to Sunshine Motorway	812.948	●	●			280.652	200.000	150.000	182.296	
Other road network projects										
Caboolture Road and Beerburum Road (Burpengary), improve intersections	28.800		●			0.700	8.000	9.500	10.600	
Centenary Motorway, Sumners Road Interchange upgrade ¹³	65.000		●			2.550	14.934	26.000	21.516	
Gateway Motorway North, upgrade to six lanes	1,142.727	●	●			776.464	45.000	30.000	291.263	
Springbrook Road (Gold Coast), Natural Disaster Relief and Recovery Arrangements remediate batter slopes	21.149	●	●			7.265	13.884			
Ipswich Motorway, Rocklea to Darra upgrade (stage 1) ¹⁴	400.000	●	●			72.071	68.000	55.000	204.929	
Kawana Way (Sunshine Motorway–Nicklin Way), Sunshine Coast University Hospital upgrade roundabouts ¹⁴	22.000		●			15.997	4.803		1.200	
Lamington National Park Road, Natural Disaster Relief and Recovery Arrangements rehabilitate pavements	15.490	●	●			7.136	8.354			
Mount Glorious Road and Samford–Mount Glorious Road improve intersections	11.300		●			0.200	2.500	3.500	5.100	
Mount Lindesay Highway (Brisbane – Beaudesert), Greenbank Road, North Maclean, improve intersection	20.000	●	●			4.000	16.000			
Nerang – Murwillumbah Road, Natural Disaster Relief and Recovery Arrangements, remediate batter slopes	10.267	●	●			2.000	5.898	2.369		
Pacific Motorway (Mudgeeraba–Varsity Lakes) extra lanes ^{14,15}	197.500	●	●			31.456	70.000	85.000	11.044	
Pacific Motorway (Rochedale South), Miles Platting Road to Rochedale Road (Gateway merge) ^{14,16}	190.000	●	●			23.147	50.000	80.000	36.853	
Pacific Motorway, Eight Mile Plains–Daisy Hill ¹⁷	749.000	●	●				17.000	32.500	275.000	424.500
Pacific Motorway, Varsity Lakes to Tugun ^{13,17}	1,030.000	●	●				5.000	15.000	290.000	720.000
Waterford–Tamborine Road (Logan Village) upgrade between Anzac Avenue and Hotz Road ¹⁸	39.500				●	26.165	13.335			

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Public and active transport										
Greenbank bus park 'n' ride upgrade	21.000		●			0.050	4.250	2.505	14.195	
North Brisbane Bikeway, stage 2 and 3, Somerset Street to Rigby Street and Rigby Street to Price Street, design and construct cycle facilities	17.180		●			4.145	5.740	0.800	6.495	
Veloway 1 (stage E) Birdwood Road to Gaza Road construct cycleway	45.000		●			0.604	17.307	12.293	14.795	
Rail										
Albion Station upgrade	16.000		●			0.045	0.395	1.370	14.190	
Buranda Station upgrade	25.000		●			0.070	1.230	7.963	15.737	
Cannon Hill Station upgrade	18.000		●			0.030	1.540	7.780	8.650	
Central Station renewal	51.822		●			4.434	7.491	24.583	15.314	
Cross River Rail ¹⁹	5,409.000		●			132.869	733.000	1,061.000	1,743.000	1,739.131
Dakabin Station upgrade	39.000		●			0.120	2.953	12.480	23.447	
Darra Train Station park 'n' ride	8.770		●			0.050	3.000	5.720		
East Ipswich Train Station upgrade	17.500		●				0.050	17.450		
European Train Control System level 2 – inner city	634.380		●			26.462	35.429	125.146	312.670	134.673
Fairfield Train Station upgrade	16.000		●				0.400	1.690	13.910	
Geebung Train Station park 'n' ride ²⁰	3.100		●			0.100	0.862	2.138		
Lawnton Train Station park 'n' ride ²⁰	10.400		●			3.200	1.912	5.288		
Lindum Train Station park 'n' ride ²⁰	5.000		●			0.100	1.338	3.562		
Loganlea Station upgrade	19.000		●				0.030	1.540	16.630	0.800
Morayfield Train Station upgrade	22.311		●			2.074	8.976	8.451	2.810	
New Generation Rollingstock ²¹	4,155.705		●			667.706	472.323	341.299	90.218	2,584.159
New Generation Rollingstock business systems	41.820		●			39.210	2.610			
North Coast Line – Beerburrum to Nambour rail upgrade ²²	550.791	●	●				14.407	59.470	286.914	190.000
Other Central Station upgrades	14.032		●				7.168	6.494	0.370	
Salisbury Train Station park 'n' ride	14.500		●			0.050	4.050	10.400		
Southbank Train Station upgrade	10.042		●			1.882	8.160			
Springfield Central Train Station park 'n' ride ²⁰	44.500		●				0.550	12.000	31.950	

1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Rail										
Strathpine and Boondall station upgrades	48.065		●			5.170	17.622	21.273	4.000	
Virginia Train Station park 'n' ride ²⁰	2.300		●			0.100	0.663	1.537		
Marine										
Boating Infrastructure Program (Gold Coast Waterways Authority)	2.922		●			0.292	0.380	0.350	1.900	
Navigation access and safety (Gold Coast Waterways Authority)	12.255		●			2.010	4.880	1.765	3.600	
Plant, equipment and minor works	10.180		●			2.615	2.730	3.135	1.700	
Regional Queensland										
Bruce Highway										
Bruce Highway (Townsville – Ingham), Cattle Creek and Frances Creek, upgrade bridges	118.900	●	●			67.207	6.433	0.150	45.110	
Bruce Highway – Mackay Ring Road, construct new two-lane road	497.375	●	●			104.105	115.000	60.000	218.270	
Bruce Highway (Rockhampton – St Lawrence), Rockhampton Northern Access Upgrade (stage 1)	121.000	●	●			17.300	40.000	30.000	33.700	
Houghton River Floodplain (Ayr – Townsville) construct bridges and approaches	514.335	●	●			17.749	37.670	86.000	372.916	
Benaraby to Calliope River (Benaraby – Rockhampton) safety works	36.610	●	●			1.750	9.585	18.935	6.340	
Bruce Highway (Gin Gin – Benaraby), Bororen to Rodds Bay Road safety works	14.290	●	●			1.018	8.529	4.743		
Bruce Highway (Gympie – Maryborough) overtaking lanes	13.320	●				0.615	5.685	5.000	2.020	
Bruce Highway (Innisfail – Cairns), Cairns Southern Access Corridor Stage 3, Edmonton to Gordonvale, duplicate from two to four lanes	481.000	●	●			6.082	15.150	37.857	280.660	141.250
Cairns Southern Access Corridor stage 4, Kate Street to Aumuller Street, widen to six lanes	104.070	●	●			6.378	28.286	24.000	45.406	
Maryborough to Gin Gin, Hebbards Road – North South Road, Apple Tree Creek widening and rehabilitation	15.454	●	●			9.365	3.500	0.155	2.434	
Bruce Highway (St Lawrence – Mackay), Sarina Northern Access construct roundabout	14.363	●	●			1.990	2.000	4.900	5.472	

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Bruce Highway										
Bruce Highway intersection improvements (Fleming Road to Fishermans Pocket Road, Chatsworth)	12.000	●	●			0.750	9.000	1.515	0.735	
Rockhampton Road Train Access (stage 1) ^{14,23}	30.000	●	●			10.000	9.000	11.000		
Warrego Highway										
Dalby to Miles widening and apply wide centre line treatment ²⁴	63.640	●	●			1.053	44.138	14.763	3.688	
Dalby to Miles overtaking lanes ²⁴	35.000	●	●			7.812	20.188	7.000		
Toowoomba Second Range Crossing ²¹	1,606.250	●	●			650.068	534.290	7.383	9.518	404.991
Chinchilla Rail Crossing upgrade ²⁴	16.000	●	●			1.521	14.479			
Dalby eastern access upgrade ²⁴	56.000	●	●			35.227	12.890	7.884		
Dalby western access upgrade (stage 1) ²⁴	59.000	●	●			38.410	8.429	12.161		
Drillham – Jackson widening upgrade ²⁴	11.000	●	●			3.149	7.251	0.600		
Miles western access upgrade ²⁴	10.743	●	●			3.060	5.307	2.376		
Oakey – Miles safety upgrade ²⁴	40.000	●	●			15.514	19.786	4.700		
Other road network projects										
Bajool – Port Alma Road pavement widening and safety upgrades	14.500	●	●			2.000	8.750	3.750		
Bowen Developmental Road (Collinsville – Belyando Crossing), Rockingham Creek to Mount Coolon pave and seal ²⁵	28.750	●	●			0.239	4.000	15.890	8.621	
Burnett Highway (Gayndah – Monto), Eidsvold, Three Moon Creek timber bridge replacement ²⁶	15.575	●	●			0.209	3.125	8.580	3.662	
Cape York Region Package (capital grants) ²⁷	50.344	●	●			31.298	19.046			
Capricorn Highway (Rockhampton – Emerald), Gracemere – Emerald overtaking lanes	19.000	●	●				10.000	9.000		
Capricorn Highway duplication (Rockhampton – Gracemere) ²⁵	74.990	●	●			0.500	10.900	34.000	29.590	
Captain Cook Highway (Cairns – Mossman) widen pavement	22.807		●			0.527	4.008	6.800	11.472	
Carnarvon Highway, St George – Surat Road widen pavement ²⁸	16.500	●	●			7.848	8.652			
Flinders Highway (Charters Towers – Hughenden) culvert upgrades ²⁵	14.408	●	●			6.335	3.252	4.821		
Flinders Highway, Townsville to Charters Towers pavement strengthening and rehabilitation	17.000	●	●			1.839	8.030	2.131	5.000	

1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Regional Queensland										
Other road network projects										
Benaraby Road (Gladstone) various safety treatments	20.400		●			1.500	7.500	9.400	2.000	
Gregory Developmental Road, Charters Towers – The Lynd, widening ²⁵	42.280		●			13.505	14.785	9.190	4.800	
Kennedy Developmental Road (Hann Highway), The Lynd – Hughenden, sealing ²⁵	50.000	●	●			18.000	13.000	14.700	4.300	
Landsborough Highway (Longreach – Winton), Dingo Creek – Darr River, pavement strengthening and widening ²⁵	24.980	●	●			2.100	6.350	13.010	3.520	
Mackay–Slade Point Road, Vines Creek bridges replacement	28.046		●	●		15.851	3.800	3.250	5.145	
Marlborough – Sarina Road, Sarina Range, Natural Disaster Relief and Recovery Arrangements Restoration, remediate batter slopes	49.157	●	●			9.660	24.241	2.560	12.696	
Pasha Road (Moranbah), pave and seal sections	16.000		●				6.000	10.000		
Peak Downs Highway (Clermont – Nebo), Wuthung Road to Caval Ridge, pavement widening and strengthening ²⁵	35.000	●	●			0.258	4.000	20.242	10.500	
Peak Downs Highway – Eton Range realignment	189.264	●	●	●		78.382	27.000	9.500	74.383	
Peninsula Developmental Road (Coen – Weipa) stage 2, Telecom Tower to Archer River, pave and seal ²⁷	11.400	●	●			1.593	9.807			
Peninsula Developmental Road (Laura – Coen) stage 2, south of Duck Holes Creek, pave and seal ²⁷	10.540	●	●			4.219	6.321			
Pialba–Burrum Heads Road, Scrub Hill Road and Wide Bay Drive, intersection signalisation	26.000		●			10.300	8.700		7.000	
Riverway Drive duplication, Garbutt – Upper Ross Road ¹⁴	43.756		●	●		23.184	14.881	1.620	4.071	
Smithfield Bypass, construct bypass to a sealed standard ¹³	152.000		●			5.352	17.500	55.800	73.348	
Transport and tourism connections	10.000		●			5.689	0.200	4.111		
Rail										
Toowoomba Range capacity and clearance upgrades	47.460		●			37.914	9.546			
Townsville – Mount Isa Rail Line	Ongoing		●				19.599			
Yeppoon Rail line upgrade	4.100		●				4.100			

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Ports										
Abbot Point Port development general	8.223				●	0.863	0.080	0.900	4.850	1.530
Auckland Point projects	38.400		●			0.100	2.400	20.900	15.000	
Barney Point projects	12.250		●				2.760	5.490	4.000	
Fisherman's Landing projects	32.035		●				3.485	11.350	17.200	
Gladstone Ports Corporation various projects	72.529		●			2.214	22.269	19.592	20.749	7.705
Hay Point Port development general	4.534				●	0.904	1.890		0.090	1.650
Horn Island Cargo Wharf Access Road	1.700		●				1.700			
Louisa Creek acquisition program	6.020				●	0.760	1.052	1.052	2.104	1.052
Mackay tug berth facilities (stage 1)	6.511				●	0.615	5.896			
North Queensland Bulk Ports Corporation various projects	56.186				●	5.324	6.204	14.120	13.744	16.794
Port of Bundaberg projects	3.180		●				1.900	1.250	0.015	0.015
Port of Cairns – marina reconfiguration and expansion	4.443		●			1.843	1.500		1.100	
Port of Cairns – Tingira Street subdivision development	17.913		●			3.263	2.000	2.000	10.650	
Port of Cairns ongoing programs	Ongoing		●				2.346			
Port of Gladstone capacity maximisation	7.000		●			3.880	2.595	0.525		
Port of Gladstone conveyor life extension	86.945		●			6.666	6.234	17.588	37.057	19.400
Port of Gladstone port services projects	81.928		●			19.400	15.078	29.200	18.250	
Port of Gladstone process control systems, stockpile management and upgrades	126.363		●			11.889	26.764	24.165	47.785	15.760
Port of Townsville Berth 4 cranes and cargo terminal area	27.297				●	0.415	18.565	8.317		
Port of Townsville channel capacity upgrade	193.460		●		●	6.097	44.326	64.547	74.234	4.257
Port of Townsville plant, equipment and minor works	Ongoing				●		7.953			
Port of Townsville various projects	21.587				●	0.286	4.250	1.681	11.695	3.675

1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Statewide										
Other road network projects										
Black Spot Program	Ongoing	●					12.178			
Bridges Renewal Program ²⁶	71.246	●				38.277	22.440	8.656	1.873	
Ongoing programs	Ongoing		●				53.577			
Other capital grants	47.231	●	●				47.231			
Other construction works	Ongoing	●	●	●	●		736.788			
Regional Roads Infrastructure Package	8.302		●			2.148	1.145	5.009		
Strategic off-network road projects	63.201	●	●			34.527	13.020	11.274	4.380	
Transport Corridor Acquisition Fund	Ongoing		●				40.000			
Transport Infrastructure Development Scheme	Ongoing		●				70.000			
Public and active transport										
Cycling Grants Program	Ongoing		●				20.233			
New public transport ticketing system	371.060		●				89.198	104.427	177.435	
Passenger Transport Facilities Program	92.443		●			34.693	7.857	11.876	38.017	
Queensland School Bus Upgrade program	Ongoing		●				17.988			
School Transport Infrastructure Program	20.000		●				2.000	5.000	13.000	
Rail										
Network – below rail cost optimisation ²⁹	Ongoing		●				24.465			
Network – below rail operational performance ²⁹	Ongoing		●				212.913			
New Generation Rollingstock – operational readiness projects	2.674		●				2.674			
New Generation Rollingstock – power distribution	49.076		●			15.548	26.648	6.880		
New Generation Rollingstock – station compatibility	16.427		●			13.047	3.380			
North Coast Line Capacity Improvement Project (passing loops)	82.734		●			5.514	21.886	31.610	23.724	
Other train station upgrades	Ongoing		●				1.919			
Queensland Rail various projects	Ongoing		●				50.883			

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Rail										
Rail operations – above rail cost optimisation ³⁰	Ongoing		●			4.746				
Rail operations – above rail operational performance ³⁰	Ongoing		●			84.094				
Safety program	Ongoing		●			10.270				
Workforce productivity program	Ongoing		●			3.920				
Marine										
Maritime safety minor works	Ongoing		●			6.823				

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding. All projects – total estimated cost is inclusive of both non-capital and capital components of project expenditure.

¹³ Part of the State Infrastructure Fund.

¹⁴ Part of the State Infrastructure Fund – Priority Economic Works and Productivity Program.

¹⁵ Indicative total project cost to be confirmed. Australian Government contribution capped at \$110 million, with the Queensland Government to fund the balance. Queensland Government contribution includes \$44 million from the State Infrastructure Fund.

¹⁶ Indicative total project cost to be confirmed. Australian Government contribution capped at \$115 million, with the Queensland Government to fund the balance. Queensland Government contribution includes \$42 million from the State Infrastructure Fund – Priority Economic Works and Productivity Program.

¹⁷ Indicative total project cost subject to business case development. Project timing and funding arrangements subject to negotiations with the Australian Government.

¹⁸ This is a developer funded project.

¹⁹ Project is being delivered by the Cross River Rail Delivery Authority.

²⁰ The project is jointly delivered by Queensland Rail and the Department of Transport and Main Roads.

²¹ This project is being delivered under a public-private partnership arrangement.

²² Indicative total project cost subject to confirmation. Project timing, potential staging and funding arrangements subject to negotiations with the Australian Government.

²³ Part of the Northern Australia Beef Roads Program.

²⁴ Part of the \$635 million Warrego Highway upgrade package to upgrade the Warrego Highway between Toowoomba and Miles.

²⁵ Part of the Northern Australia Roads Program.

²⁶ Part of the Bridges Renewal Program.

²⁷ Part of the \$260.5 million Cape York Region Package.

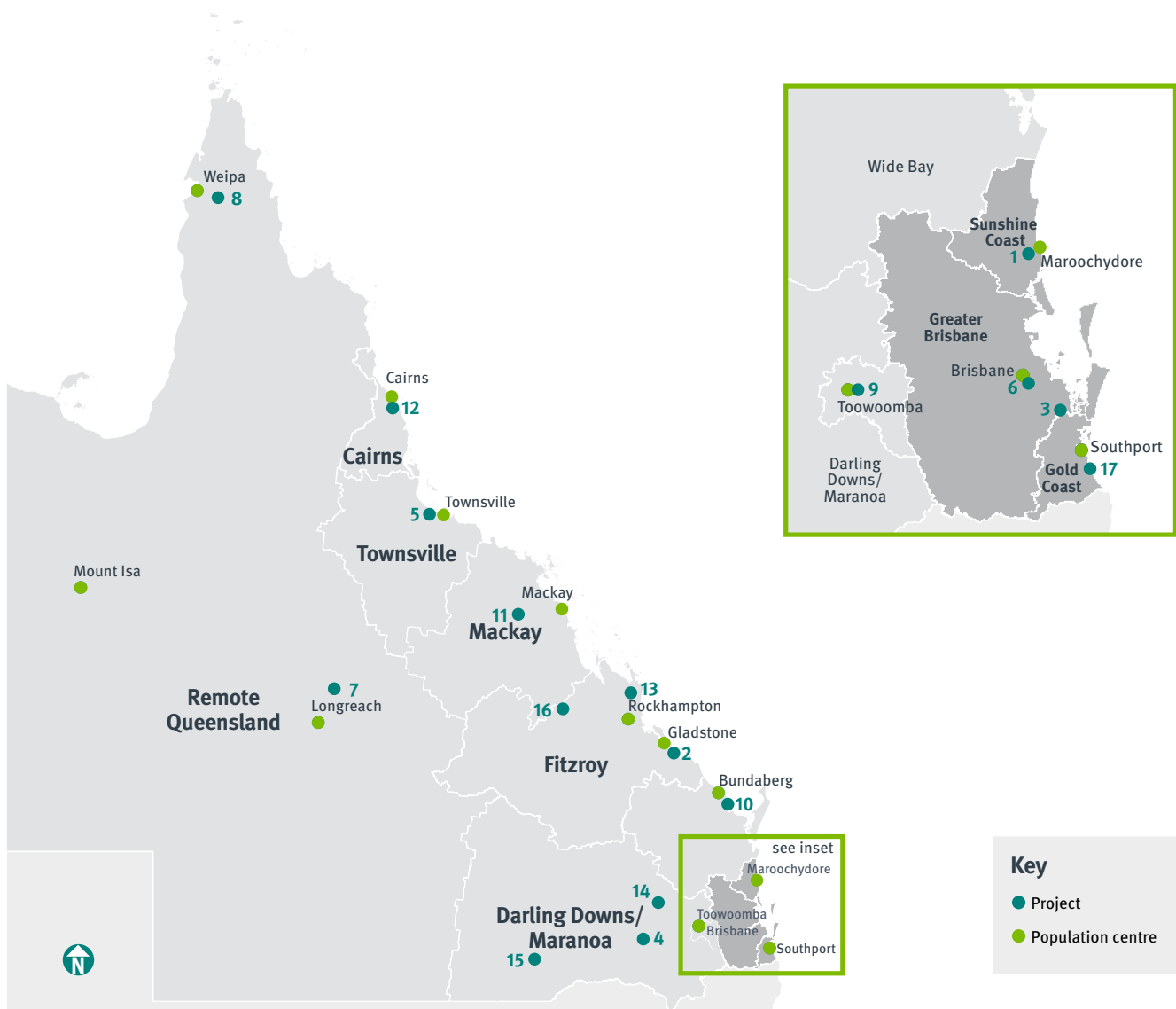
²⁸ Part of the Australian Government's heavy vehicle safety and productivity program.

²⁹ Below rail includes track infrastructure.

³⁰ Above rail includes stations, platforms and rollingstock.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Sunshine Motorway (Mooloolah River Interchange)	7	Landsborough Highway (Longreach –Winton), Dingo Creek – Darr River, pavement strengthening and widening
2	Gladstone Port land and sea access upgrade	8	Peninsula Developmental Road (Coen – Weipa) stage 2, Telecom Tower to Archer River, pave and seal
3	Gold Coast Rail Line capacity – Kuraby to Beenleigh	9	Toowoomba Range capacity and clearance upgrades
4	Gore Highway (Millmerran to Goondiwindi)	10	Port of Bundaberg projects
5	Bruce Highway – Townsville Ring Road (stage 5)	11	Peak Downs Highway – Eton Range realignment
6	Centenary Motorway – Centenary Bridge upgrade	12	Port of Cairns – Tingira Street subdivision development
		13	Yeppoon Rail line upgrade
		14	Dalby eastern access upgrade
		15	Carnarvon Highway, St George – Surat Road widen pavement
		16	Capricorn Highway (Rockhampton – Emerald), Gracemere – Emerald overtaking lanes
		17	Boating infrastructure program (Gold Coast Waterway Authority)



Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Focus on innovative infrastructure solutions to relieve capacity constraints in the core inner-city rail network to meet the expected passenger demands in SEQ.

Status update: Cross River Rail and inner-city bus solutions are being planned and developed with completion anticipated in 2024.

Opportunity 2

Improve service efficiency, reliability and resilience across the bus network through bus priority interventions and busway maintenance.

Status update: Projects being delivered to improve efficiency, reliability and resilience across the bus network include Northern (Gympie Road) and Eastern (Old Cleveland Road) transitway projects.

Opportunity 3

Delivery of strategic park ‘n’ rides at appropriate network locations to support increases in patronage, manage congestion and improve access to public transport for those with limited alternatives.

Status update: An additional 2350 car parks will be delivered as part of a \$114 million investment across nine strategic locations on the public transport network.

Opportunity 4

Maximise the use of active and passenger transport infrastructure to manage congestion and maximise existing infrastructure in the transport network.

Status update: The Department of Transport and Main Roads is planning and delivering active and passenger transport projects including construction of further stages of the North Brisbane Bikeway and Veloway 1 and upgrades to the Helensvale, Victoria Point Central and Morayfield bus stations. The Department of Transport and Main Roads continues to implement the *Queensland Cycling Strategy 2017–2027* including administering cycling grants and delivering capital works projects throughout the state, and will develop a Queensland Walking Strategy in 2018–19.

Opportunity 5

Improve regional rail performance, particularly on the North Coast Line including passing loops and holding bays to increase rail freight movements.

Status update: The Department of Transport and Main Roads will work with the Australian Government in developing a funding arrangement following a \$390 million federal funding commitment for the Beerburrum to Nambour Rail upgrade (\$200 million within the forward estimates period and \$190 million beyond).

Opportunity 6

Respond to growth in population and freight movement by identifying and protecting future transport corridors.

Status update: Regional Transport Plans are being developed by the Department of Transport and Main Roads and will consider growth in population as well as freight movement and planning required to identify and protect future transport corridors.

Opportunity 7

Continue to address identified safety deficiencies on the transport network and improve safety of vulnerable road users.

Status update: The Department of Transport and Main Roads Targeted Road Safety Program delivered more than \$320 million of infrastructure-based road safety initiatives outlined in the *2015–17 Road Safety Action Plan*, exceeding delivery targets by \$20 million.

Opportunity 8

Identify opportunities to enhance regulatory frameworks that optimise efficiency of supply chains and integration of transport modes including coastal shipping.

Status update: The Queensland Government is developing a Queensland Freight Strategy and Queensland Freight Action Plan. This opportunity will be considered as part of this plan.

Future opportunities – cont.

PLANNING

Opportunity 9

Improve safety, capacity and efficiency of the existing rail and bus network in SEQ.

Status update: Queensland Rail is delivering the European Train Control System to improve rail efficiency. Queensland Rail is currently procuring partnerships with industry experts to deliver the inner-city project which will be delivered over the next five years. Work will be staged with the aim to reduce customer impact wherever possible.

\$135.2 million is committed for seven SEQ rail station accessibility upgrades.

Opportunity 10

Utilise the latest and most accessible technology to improve the communication and dissemination of real-time travel data to empower customers to make the best decisions in using the transport system.

Status update: Real-time passenger information displays, including text-to-voice technologies, continue to be rolled out at bus stations across SEQ as part of an ongoing QTRIP funded program.

Opportunity 11

Increase focus on maintenance and operations of existing infrastructure to realise asset design life and delay the need for costly new infrastructure.

Status update: The opportunity continues to be progressed by the Department of Transport and Main Roads through several maintenance programs, including investigation of potential intelligent transport systems and technology tools to assist managing congestion and improving journey reliability and use of data and analytics to identify and prioritise maintenance works and operations.

The rollout of the Queensland Traffic website and app in 2016–17 has enabled motorists and commuters to check traffic conditions and plan their journeys before they go.

Opportunity 12

Investigate opportunities to expedite the open level crossing elimination program.

Status update: Planning is being progressed to prioritise level crossings in the Brisbane area. The Department of Transport and Main Roads is leading the business case development for the Boundary Road, Coopers Plains level crossing and the feasibility study for the Beams Road, Carseldine level crossing.

Opportunity 13

Investigate cost-effective transport solutions for small volume regional products to access ports.

Status update: The Queensland Government is developing a Queensland Freight Strategy and Queensland Freight Action Plan. This opportunity will be considered as part of this plan.

Opportunity 14

Improve axle weight capacity and tunnel height clearances as a means of improving rail capacity.

Status update: Preparation works for the Toowoomba Range Clearance Upgrade Project have been completed. The project is scheduled for completion in late-2018.

Planning is also underway to develop the North Coast Line Action Plan which will provide a prioritised 10-year program of works, covering a range of investment initiatives to improve reliability and capacity of the North Coast Line.

Opportunity 15

Improve scheduling at ports to increase port efficiencies and reduce offshore queuing.

Status update: Port authorities continue to monitor the scheduling of vessel movements to improve efficiencies.

Opportunity 16

Identify and protect suitable future intermodal locations.

Status update: Investigations for an intermodal freight terminal north of Caboolture continue to be progressed. The Department of Transport and Main Roads will engage with local governments to discuss options for future protection of potential corridors.

Opportunity 17

Investigate opportunities to enable appropriate development above urban public transport infrastructure.

Status update: In 2018–19, the Department of Transport and Main Roads will investigate costs to construct above urban public transport infrastructure to determine development feasibility.

Opportunity 18

Initiate a Regional Bridge Renewal Program.

Status update: The Department of Transport and Main Roads is progressively replacing and upgrading ageing and deficient structures on the state-controlled road network as part of the QTRIP capital program subject to available state and federal funding opportunities.

Opportunity 19

Improve transport access to the Port of Townsville.

Status update: Environment approvals and the business case for the Townsville Channel Capacity Upgrade Project have been completed and the Queensland Government has committed \$75 million towards the \$193 million project cost. Federal contribution through the Townsville City Deal is now being sought. The Queensland Government is seeking a matching \$75 million funding commitment from the Australian Government.

Opportunity 20

Continue to address passenger transport opportunities for the Gold and Sunshine coasts.

Status update: The Gold Coast Light Rail Stage 2 has been delivered, and Gold Coast Light Rail Stage 3a detailed business case will be completed in late-2018.

A comprehensive public transport strategy for the southern Sunshine Coast is underway and planned for completion in mid-2019.

Opportunity 21

Encourage patronage growth on the SEQ passenger transport network during off-peak times to fully utilise existing infrastructure.

Status update: The Department of Transport and Main Roads has undertaken a number of initiatives to encourage patronage growth during off-peak times. These range from the Fairer Fares initiative which cut fares across 93 per cent of journeys, through to service level increases in off-peak periods on the Sunshine and Gold coasts, Mackay and Toowoomba.

Opportunity 22

Investigate opportunities to improve connections between active and public transport modes to increase accessibility and promote patronage growth.

Status update: The Department of Transport and Main Roads continues to plan and deliver improved access to public transport via active transport, feeder public transport services, kiss 'n' ride, personalised transport services and park 'n' ride. These improvements increase the opportunities for interchange between modes and allow more customers to access the public transport system.

Opportunity 23

Enhance freight capacity and supply chain efficiency.

Status update: Planning is underway for the Inland Rail Project, in collaboration with the Australian Government and the Australian Rail Track Corporation.

To future proof the Bruce Highway, \$913.5 million is committed. The Queensland Government is seeking an additional 80 per cent funding contribution from Australian Government.

Opportunity 24

Improve passenger and freight movements between Brisbane and the Gold Coast.

Status update: Duplication of the Coomera to Helensvale section of the Gold Coast rail line has been delivered, to allow for an increase in rail passenger services between Brisbane and the Gold Coast.

Opportunity 25

Improve passenger and freight movements between Brisbane and the Sunshine Coast.

Status update: The Beerburrum to Nambour business case has been completed and the state government has committed \$160.8 million to deliver this new rail line.

Future opportunities – cont.

PLANNING

Opportunity 26

Improve passenger and freight movements between Brisbane and Ipswich by increasing capacity on the Ipswich Motorway and related rail corridors.

Status update: The Ipswich Motorway Upgrade: Rocklea to Darra stage 1 project is in progress to deliver the three-kilometre upgrade of the Ipswich Motorway between Granard Road, Rocklea and Oxley Road, Oxley, including higher bridges over Oxley Creek.

Opportunity 27

Enhance freight efficiency by removing capacity constraints on key freight routes.

Status update: The Department of Transport and Main Roads is progressively addressing capacity constraints on key freight routes through the QTRIP capital program. Recent examples of investments to improve freight productivity include replacement of deficient structures on the Peak Downs Highway and Dawson Highway in Central Queensland and the addition of overtaking lanes, four lane duplication and road overpasses on the Warrego Highway in Southern Queensland.

Opportunity 28

Prepare the transport network for connected/automated passenger and freight vehicles.

Status update: The opportunity is being progressed through a number of channels by the Department of Transport and Main Roads including:

- ▶ development of the future-focused Queensland Transport Strategy
- ▶ significant regulatory reform to support a national goal of on-road deployment of automated vehicles (AVs) by 2020
- ▶ conceptual and scenario modelling studies to investigate the potential impact of AVs on the transport network
- ▶ trialling new transport technologies around AVs, including planning the largest cooperative vehicle pilot in Australia – the Cooperative-Automated Vehicle Initiative (CAVI).

Opportunity 29

Enhance inter-regional connections to support regional development such as tourism, maritime and agricultural activities.

Status update: The Department of Transport and Main Roads is progressively improving key inter-regional routes through the QTRIP capital program, subject to available funding. For example, the Warrego Highway and Landsborough Highway intersection upgrade.

Opportunity 30

Support Queensland’s continued economic development through the long-term sustainable development of key ports.

Status update: Key infrastructure upgrades to the channels of Townsville and Cairns ports are progressing. Priority ports master planning is being progressed to protect the ability for key ports to develop in the future.

Opportunity 31

Investigate ways to better use port facilities in the Gulf of Carpentaria to meet community and industry demand.

Status update: Channel dredging planned for mid-2018 in the Port of Karumba will support increased trade.

Opportunity 32

Investigate upgrades to key passenger interchanges across the transport network.

Status update: In 2018–19, the Department of Transport and Main Roads will investigate upgrade options at key passenger interchanges across the transport network to improve reliability and deliver better customer outcomes.

Opportunity 33

Provide fit-for-purpose transport infrastructure to support economic productivity and population growth.

Status update: The QTRIP capital program identifies a broad range of transport projects, which are assessed in relation to costs and benefits, to support economic productivity and population growth

Energy



Kogan Creek Power Station (image courtesy of CS Energy)

Queensland is an energy generation powerhouse and is transitioning to a low-carbon energy future with high levels of energy security and reliability.

Queensland has a secure and reliable electricity system, backed by the most efficient coal-fired generation fleet on the east coast. The state produces more than 70 per cent of the total east coast gas supply and additional land has been released for gas exclusively for the Australian market. Queensland also has the highest level of rooftop photovoltaics (PV) in the country and the renewable energy industry is experiencing unprecedented growth.

The infrastructure investment underpinning these achievements has occurred under the favourable investment conditions created by the Queensland government – delivered through the government-owned energy corporations and private sector enterprise.

The government sets or contributes to state and national energy policy and regulatory frameworks through the Department of Natural Resources, Mines and Energy, providing the stability and certainty private sector investors require to commit to Queensland infrastructure projects.

Government policy is also supporting investment in new technologies used in distributed generation, such as rooftop PV systems and residential battery storage. As well as giving consumers greater control over their consumption, these technologies can help reduce the overall load on existing network infrastructure and provide lower cost alternatives to major network upgrades.

The Queensland Government's *Powering Queensland Plan* helps set the direction for future investment in energy infrastructure in the state. This includes the Queensland Government's ongoing commitment to achieving a target of 50 per cent renewable energy by 2030. This will be achieved through a planned and measured transition that utilises Queensland's existing coal and gas generation portfolio, and supports new skills and jobs while stabilising prices.

Key initiatives

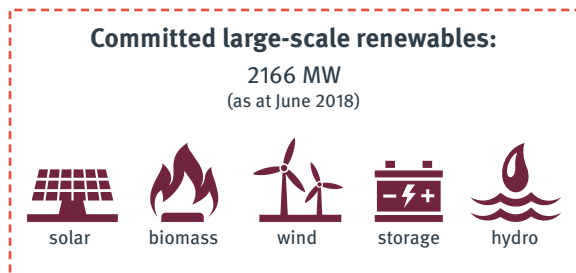
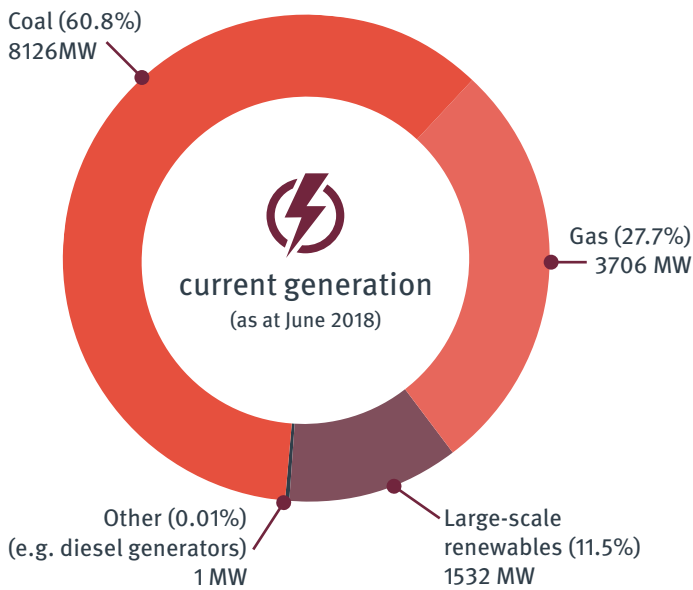
Powering Queensland

- ▶ The *Powering Queensland Plan*, released in mid-2017, sets out the government's strategy to guide the state through the challenges in the energy market.
- ▶ The \$1.16 billion plan aims to deliver stable energy prices, long-term security of electricity supply, lead the transition to a cleaner energy sector and create new investment and jobs.

Achievements

- ▶ The return to service of Stanwell's Swanbank E gas fired power station in December 2017, has added 385 megawatts of supply to the state's electricity market for the summer period.
- ▶ Increasing gas supply in the Australian market through the release of more than 6000 square kilometres of land for gas exploration to supply the east coast Australian market and another 11,000 square kilometres without any market condition.
- ▶ 43,250 square kilometres of land for exploration is available for investors looking to invest in petroleum and gas exploration. In total, the government has earmarked more than 44,000 square kilometres of land for exploration to unlock the next round of resource projects.
- ▶ Supporting approximately 150 megawatts of large-scale solar power generation in Queensland. The four projects supported under the Solar 150 program have reached financial close and have started, or will soon start, construction.
- ▶ Energy Security Taskforce was established to develop a *Queensland Summer Preparedness Plan 2017–18* and to oversee the delivery of renewable energy projects led by the Queensland Government.

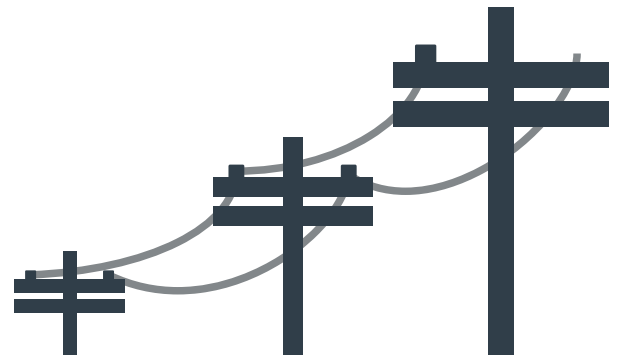
Queensland's electricity network



2.194 M
Queensland connected customers



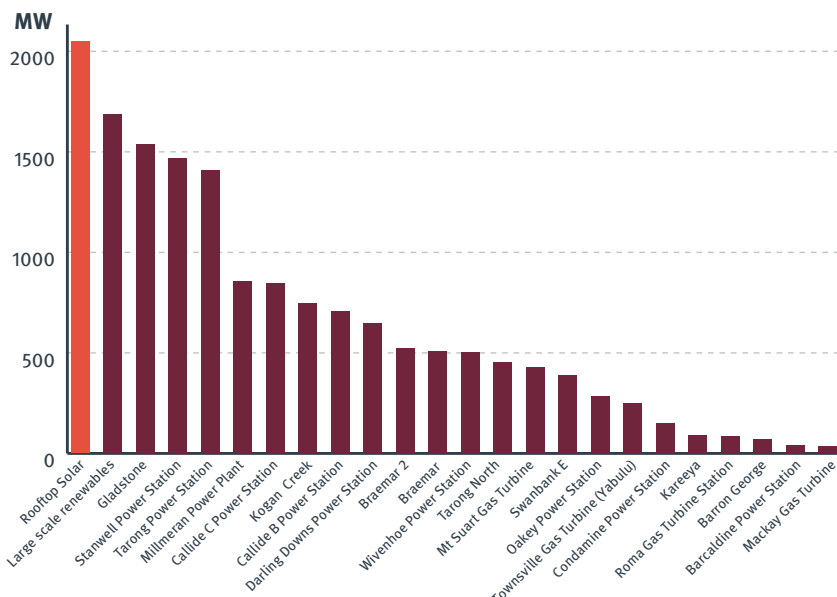
13,365 MW
of national grid-connected generation capacity



More than
150,000 km
of powerlines in rural and regional QLD

52,800 km
of powerlines in South East Queensland

Combined solar rooftops are now Queensland's largest power station



3000
systems are connected each month*

470,049
residential rooftops with solar PV*

* as of March 2018

Energy generators

Advancing Clean Energy Schools

Queensland state schools are among the Queensland Government's largest energy consumers, spending around \$65 million each year. With rapid developments in the way energy is produced, used and stored, the Department of Education recognised the opportunity to realise savings by investing in solar PV installations and energy efficiency measures.

Following consultation with industry, the Advancing Clean Energy Schools (ACES) program was created to help Queensland state schools reduce energy costs by up to 20 per cent.

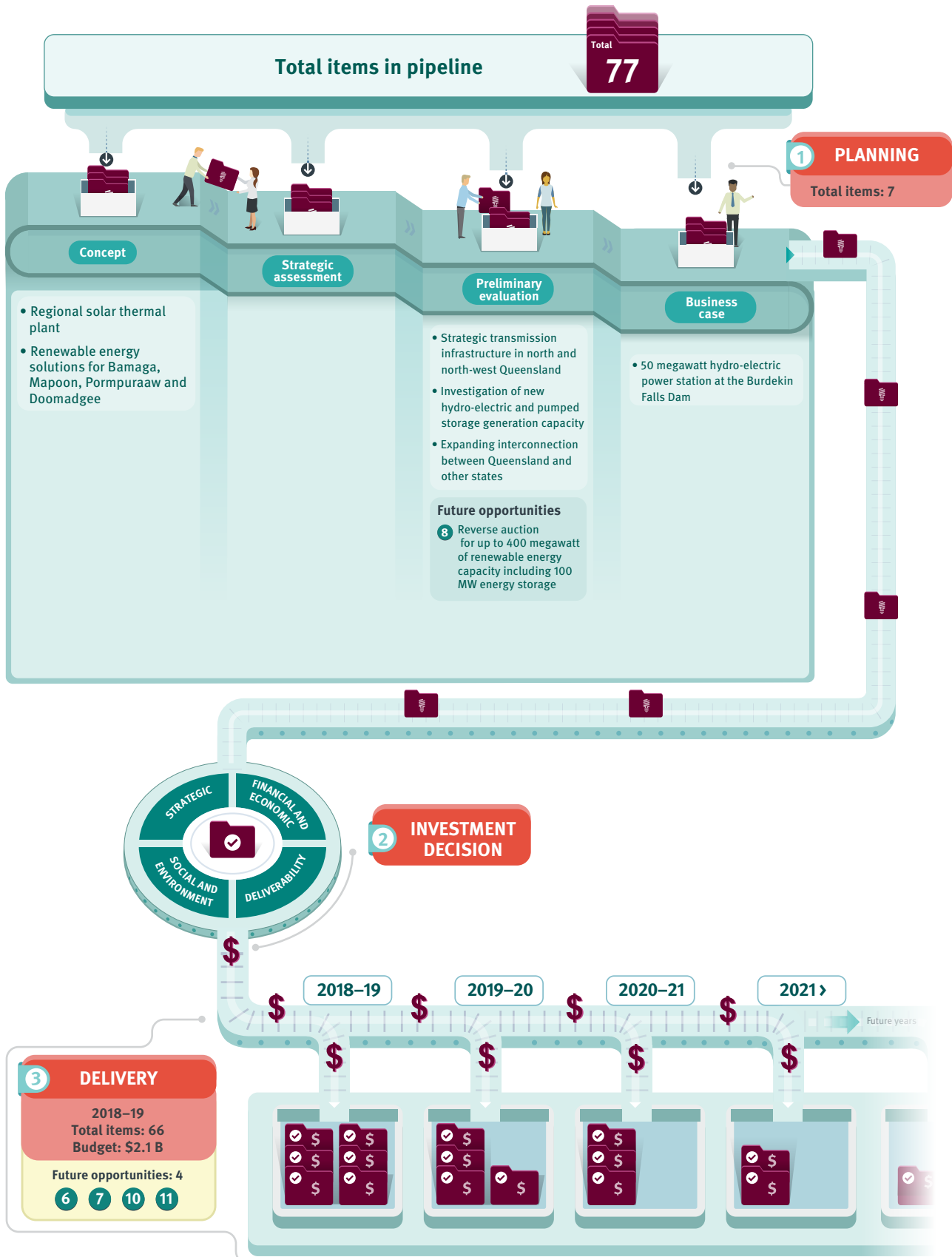
Under the program, \$97 million will be invested over three years on solar and energy efficiency measures – \$40 million on solar PV systems and \$57 million on making schools more energy efficient. It is estimated the ACES program will save schools \$10 million per year with savings to be reinvested into the program and other education priorities.

The first phase of the program is expected to start with a pilot of up to 30 schools in each of the Department of Education's seven regions. The program will then be rolled out across more than 800 schools initially, with the remaining schools to be included once energy cost savings are generated from the program.



Solar farms, Sunshine Coast

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Bundall Substation upgrade	9.838		●			7.598	2.241			
Clayfield Substation upgrade	8.006		●			0.811	2.583	3.593	1.019	
Hemmant Substation upgrade	8.957		●			5.046	3.787	0.124		
Herring Lagoon Substation upgrade	3.165		●			1.033	2.094	0.038		
Inala Substation upgrade	3.990		●			1.308	2.460	0.222		
Kenmore Substation upgrade	3.072		●			0.454	2.412	0.207		
Labrador Substation upgrade	16.878		●			13.994	2.576	0.309		
Metering dynamics	17.249		●				17.249			
Other ongoing works (Energy Queensland)	7.200		●				7.200			
Power supply upgrade between South Pine and Hays Inlet Substation	4.863		●			2.356	2.507			
Rocklea Substation secondary systems replacement	21.100		●			14.046	3.591	3.463		
Suncoast powerline project Palmwoods to Maroochydore	78.848		●			33.975	29.023	12.682	3.168	
Swanbank Power Station – minor works	Ongoing				●		2.708			
Swanbank Power Station overhauls	Ongoing				●		20.250			
Toowong Substation upgrade	3.757		●			1.244	1.935	0.578		
Wivenhoe Power Station overhauls	4.753				●		4.753			
Regional Queensland										
Barcaldine Substation upgrade	3.411		●			1.170	2.237	0.003		
Barron Gorge Power Station – minor works	Ongoing				●		0.293			
Callide A/Calvale 132kV network reinvestment	22.460		●			11.212	4.243	7.005		
Callide Power Station overhauls	104.596				●		104.596			
Calvale and Callide B Substation secondary systems replacement	21.800		●			8.869	2.448	4.821	5.534	0.128
Charters Towers Substation upgrade	3.930		●			1.368	1.894	0.667		
Collinsville to Proserpine transmission line refit	34.300		●			14.687	8.715	10.898		
Dysart Substation upgrade	12.839		●			1.172	4.512	7.027	0.129	
Emerald Cornet Substation upgrade	3.477		●			0.448	2.010	1.019		

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018-19	Indicative		
								2019-20	2020-21 to 2021-22	Beyond
Regional Queensland										
Energy Queensland – Bunda Street, Cairns project	5.402		●			5.402				
Energy meters in isolated communities	7.405		●			7.125	0.280			
Gin Gin Substation rebuild	22.800		●			5.209	7.015	9.496	1.080	
Isolated systems capital works geothermal plant – Birdsville	3.257		●				3.257			
Kareeya Power Station – minor works	Ongoing				●		1.682			
Kogan Creek Mine development and refurbishment	8.614				●		8.614			
Kogan Creek Power Station overhauls	90.515				●		90.515			
Koombooloomba Power Station – minor works	Ongoing				●		1.499			
Mackay Substation replacement	24.500		●			16.670	3.601	4.229		
McLeod Street Depot condition upgrade	3.271		●			1.358	1.913			
Meandu Mine – asset refurbishments	Ongoing				●		17.595			
Meandu Mine – coal handling preparation plant replacements and upgrades	Ongoing				●		3.450			
Meandu Mine – development program	Ongoing				●		3.809			
Meandu Mine overhauls	Ongoing				●		7.000			
Mica Creek Power Station – minor works	Ongoing				●		0.257			
Nebo Substation secondary systems replacement	21.000		●			7.056	2.609	5.671	5.184	0.480
Proserpine redevelopment	3.641		●				3.641			
Searle Street Maryborough redevelopment	3.144		●			0.148	2.996			
Stanwell Power Station – mid-life condenser retube	Ongoing				●		5.173			
Stanwell Power Station – control system upgrade	Ongoing				●		17.930			
Stanwell Power Station – other sustaining projects	Ongoing				●		11.249			
Stanwell Power Station overhauls	Ongoing				●		19.668			

1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Regional Queensland										
Swanbank Power Station gas supply strategy ³¹	Ongoing				●	5.000				
Tarong Power Station – high and intermediate pressure turbine overhauls	Ongoing				●	12.070				
Tarong Power Station – other sustaining projects	Ongoing				●	17.810				
Tarong Power Station – overhauls	Ongoing				●	39.943				
Toolara Forest Substation upgrade	5.415		●			2.058	2.007	1.349		
Torres Strait Power Station upgrades	2.350		●			1.708	0.642			
Statewide										
Low voltage small copper replacement (stage 2 and 3)	98.484		●			24.172	21.456	24.242	28.614	
Solar thermal plant contribution	50.000		●			50.000				
Total non-prescribed transmission network connections	Ongoing		●			55.074				
Total other projects	Ongoing		●			141.434				
Capital works to connect new customers	168.799		●			168.799				
Conductor clearance works	64.257		●			8.118	56.139			
Isolated systems augmentation and upgrades	46.854		●			10.293	24.054	10.969	1.538	
Network initiated capacity augmentation	130.335		●			130.335				
Network initiated replacement works	176.122		●			176.122				
Other property, plant and equipment	443.271		●		●	25.700	344.051	32.109	29.841	11.570
Other regulated customer initiated capital works	424.560		●			424.560				
Stanwell Corporation – ongoing programs	Ongoing				●	21.167				
Substation upgrades	197.878		●			98.500	35.832	49.617	13.929	

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Some figures may differ from the 2018–19 Budget Paper 3 where there have been minor adjustments to entities 2018–19 infrastructure programs.

³¹ The Swanbank Power Station gas supply strategy project is situated in the Maranoa region.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Renewable energy solutions for Bamaga, Mapoon, Pormpuraaw and Doomadgee	3	Wivenhoe Power Station overhauls
2	50 megawatt hydro-electric power station at the Burdekin Falls Dam	4	Suncoast powerline project Palmwoods to Maroochydore
		5	Labrador Substation upgrade
		6	Barron Gorge Power Station – minor works
		7	Nebo Substation secondary systems replacement
		8	Barcaldine Substation upgrade
		9	Isolated systems capital works geothermal plant – Birdsville
		10	Kogan Creek Mine development and refurbishment
		11	Stanwell Power Station – control system upgrade
		12	Gin Gin Substation rebuild



Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Implement gas supply and demand actions.

Status update: Actions identified in the Queensland Gas Supply and Demand Action Plan discussion paper are being implemented. These include the release of a pilot tender in February 2017 of 58 square kilometres of land in the Surat Basin with an Australia-only sale condition on the gas produced. In May 2017, a further 395 square kilometre tenure was announced with the same Australian market condition.

The first tender was awarded to Queensland company Senex. Two other Australian producers, Central Petroleum and Armour Energy, have won a further tender to explore for gas exclusively for the Australian market.

The Queensland Government is also working with the Australian Government to leverage federally-announced programs to expand gas supply in Queensland.

Opportunity 2

Explore opportunities to establish research and pre-commercial biorefinery to build on Queensland's competitive advantage in this sector.

Status update: In June 2017, the first pre-commercial advanced biofuels pilot plant was opened in Yarwun, as part of the Queensland Biofutures 10-Year Roadmap and Action Plan to grow this industry in Queensland.

Opportunity 3

Examine opportunities to improve energy productivity in electricity and gas sectors.

Status update: Work is underway to develop energy productivity measures as outlined in the *Council of Australian Governments Energy Council National Energy Productivity Plan 2015–2030*, such as the delivery of the Australian Codes Board new energy efficiency requirements for commercial buildings will come into effect on 1 May 2019.

Opportunity 4

Develop and leverage intelligence and resilience of the electricity network in relation to severe weather events.

Status update: A Queensland energy security taskforce was established in 2017 to develop short and long term plans for maintaining energy security in the state. The taskforce's first priority was to develop a *Queensland Summer Preparedness Plan 2017–18* to ensure the network of electricity generators, Powerlink and Energy Queensland are ready to respond to heatwaves or cyclones. The taskforce is now developing the 2018–19 Summer Preparedness Plan.

Opportunity 5

Implement agreed government actions following the completion of the independent review to consider a credible pathway to achieving a 50 per cent renewable energy target by 2030 for Queensland.

Status update: This opportunity will be addressed through future opportunity 6 in future SIP updates.

Opportunity 6

Promote widespread use of energy sourced from renewable energy generation and implement agreed government actions to achieve the 50 per cent renewable energy by 2030 target for Queensland.

Status update: Following the completion of an independent review, the Queensland Government has committed to achieving a 50 per cent renewable energy target by 2030 and implementing agreed government actions.

The government is providing incentives for investment in renewable energies such as the 400 megawatt reverse auction. The government is also supporting the solar boom across the state and has amended the *Electricity Regulation 2006* so the distribution network voltage limits will support Queensland's renewable energy target and solar industry.

Opportunity 7

Facilitate and provide policy settings to accelerate uptake of cost reflective tariffs and advanced metering.

Status update: From 1 December 2017, as part of the Council of Australian Government's national electricity reforms, digital meters became the default meter for small customers. Digital meters are a key tool for enabling customers to manage their household electricity costs by providing accurate and timely usage data and enabling customers to access monthly billing. Customers can also benefit from access to new products and services from retailers including new tariffs.

Opportunity 8

Work with Australian Renewable Energy Agency to target renewable energy and distributed energy investment into Queensland.

Status update: The Solar 150 initiative – the state's large-scale solar investment program, in collaboration with the Australian Renewable Energy Agency – encourages the development of local, large-scale solar projects. Through this initiative the state is providing financial support to four large-scale solar projects. The state will undertake another reverse auction for an additional 400 megawatt of renewable capacity, 100 megawatt of which will be for energy storage under our *Powering Queensland Plan*.

Opportunity 9

Examine opportunities for more cost-effective localised solutions for rural and regional communities and vulnerable customers.

Status update: The Queensland government partnered with the Australian Renewable Energy Agency to develop a solution to deliver sustainable energy for the Daintree. The Government will partner with the Australian Renewable Energy Agency to provide residents with a quality, clean power supply to enhance their standard of living, reduce local pollution and support local businesses and jobs.

Opportunity 10

Work at regional, state and national levels to identify the opportunities and risks with the transformation of the energy sector with respect to distributed generation and battery storage.

Status update: The *Powering Queensland Plan* sets out the Queensland Government's strategy to guide the state through the short and long term challenges facing Australia's energy markets including providing incentives for the development of distributed generation and battery storage at every level.

The state is delivering a range of regional initiatives to increase the use of solar PV in line with meeting a target of 3000 megawatts by 2020. Guidelines are currently being developed for large-scale solar farm projects. Queensland is leading the way on energy storage by developing a Queensland home storage database.

At a national level, the Queensland Government is working with the Australian Energy Market Commission to develop national rules for a proposed national register of battery storage systems and other distributed energy devices. In addition, the Queensland Government, through the Energy Market Transformation work stream, has been working with Australian Standards and skills/training authorities to drive prioritisation of battery standards development and training modules.

Opportunity 11

Ensure Queensland continues to have access to an affordable, secure and sustainable supply of electricity.

Status update: The \$1.16 billion *Powering Queensland Plan* will ensure Queenslanders can continue to enjoy an affordable and secure supply of electricity. The Queensland Energy Security Taskforce is developing a Summer Preparedness Plan which also supports the transition to a cleaner energy sector. In addition, more than \$300 million of initiatives under the *Affordable Energy Plan* will help to make electricity more affordable for residential and business customers.

Opportunity 12

Investigate managing decentralised generation controls in a similar way to demand-side peak management.

Status update: This opportunity will be addressed through future opportunity 10 in future SIP updates.

Reducing barriers to cheaper solar electricity

A number of initiatives are being progressed including the solar for public housing project which is aimed at reducing the barriers to cheaper solar electricity for public housing tenants.

The sunny savers trial is testing new business models that can deliver solar for public housing tenants with no upfront capital costs to tenants or government. To date installations have occurred in Lockhart River, Cairns and Rockhampton.

In Cairns and Rockhampton systems of up to four kilowatts have been installed on more than 800 public housing dwellings providing

savings of up to \$250 per year to some of Queensland's most vulnerable customers.

Around 130 households in the remote Indigenous community of Lockhart River are now benefiting from a newly installed rooftop solar farm. The 200-kilowatt solar and battery system installed across four government and council buildings provides around 10 per cent of the community's power supply and offsets up to 75,000 litres of diesel fuel each year with clean solar energy.



Rooftop solar panels

Water



Offline storage and repump station site, Gladstone

As one of the most precious resources globally, water must be used sustainably and remain secure for future generations. It is critical to agriculture, business, industry and everyday living. Infrastructure that is affordable and delivers a clean, secure and accessible water supply helps maximise Queensland's economic potential.

Communities across Queensland are reliant on the availability of a secure water supply. However, the state's vast geography and climate presents unique challenges to managing a secure water supply. While much of the state may experience extended periods of drought, seasonal rains can result in flash flooding and inundation in coastal and inland communities.

Water infrastructure encompasses water storage and distribution networks as well as wastewater treatment infrastructure. Given water is heavy and expensive to transport, it is more efficient to connect isolated urban centres with nearby water sources. This continues to be the preferred approach for water supply and wastewater infrastructure.

Effective water supply planning and viable funding models are essential to provide appropriate water solutions in the future. It will also ensure traditional water sources, such as rivers, lakes and springs, are sustainably managed to safeguard long-term supplies and protect ecological systems.

Alternative approaches to traditional large-scale bulk water projects can help overcome the challenges presented by climate change, population growth, demand increases and fiscal constraints. Efficient use of existing infrastructure, rigorous planning and innovative technologies, will be essential to ensure sustainable, reliable and cost-effective bulk water supply.

Key initiatives

Queensland Bulk Water Opportunities Statement (QBWOS)

- ▶ Released in mid-2017, the QBWOS guides the state's investment in bulk water supply infrastructure.
- ▶ The statement presents a framework to achieve a balance between the optimal use of existing infrastructure and investment in new projects.
- ▶ Water infrastructure projects in Queensland generally fall into three categories:
 - dam safety improvements
 - optimisation of existing infrastructure
 - construction of new infrastructure.
- ▶ Some examples of the different types of infrastructure being planned, delivered or further considered through QBWOS include:
 - Townsville Houghton pipeline new infrastructure – \$215 million
 - the Paradise Dam Safety Improvement Program.
- ▶ Nullinga Dam is new infrastructure and Mareeba-Dimbulah Channel Modernisation Project is an example of optimising existing infrastructure – \$28.3 million.

Torres Shire water infrastructure

- ▶ \$12 million to deliver upgrades to ageing infrastructure in Torres Shire, to ensure a safer supply of drinking water on Horn, Thursday and Hammond islands.

Rookwood Weir

The Queensland Government committed \$176 million in the *2018–19 State Budget* for the construction of \$352 million Rookwood Weir. Once constructed, Rookwood Weir will improve water security for the growing Rockhampton and Gladstone communities by providing 34,000 megalitres of water for urban and industrial customers.

The weir will also provide economic development opportunities in the region by providing up to 42,000 megalitres of high priority water for agricultural and industrial customers.

The project is expected to create up to 100 construction jobs in Central Queensland and has the potential to increase and diversify the region's agricultural production well into the future.

With the Australian Government's commitment to fund half of the construction costs, joint partnership arrangements are being finalised.

SunWater will be constructing and operating the weir and preparatory activities are already underway.



5 reservoirs and storage tanks

Mount Isa Water Board

- ▶ \$131 M in assets
- ▶ 8 pump stations
- ▶ 88 km of pipelines
- ▶ 2 water treatment plants



19 major dams

SunWater

- ▶ \$13 B in assets
- ▶ 66 weirs and barrages
- ▶ 82 major pumping stations
- ▶ 3100 km of pipelines and channels



10 water reservoirs

Gladstone Area Water Board

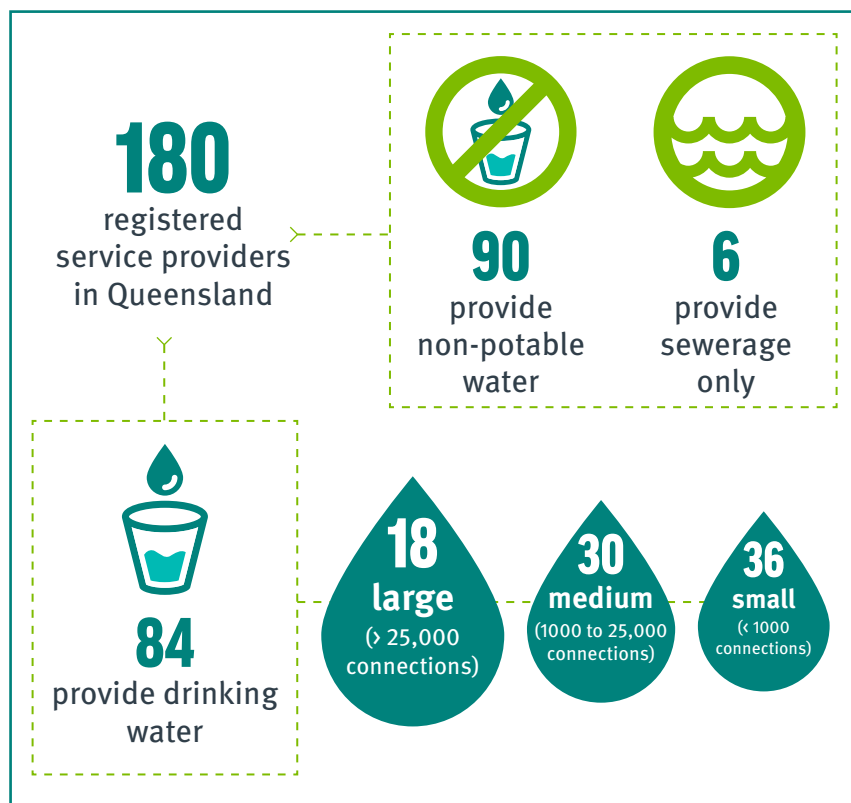
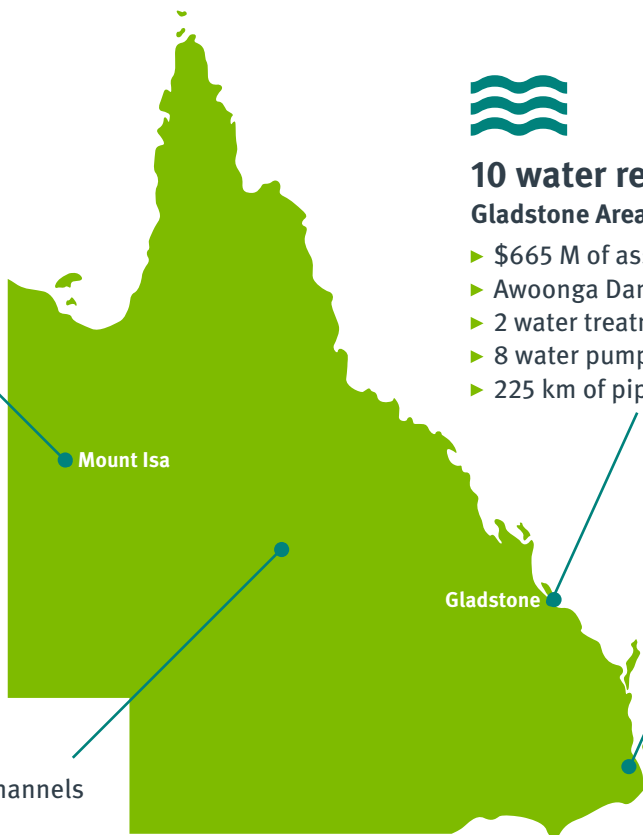
- ▶ \$665 M of assets
- ▶ Awoonga Dam
- ▶ 2 water treatment plants
- ▶ 8 water pumping stations
- ▶ 225 km of pipelines



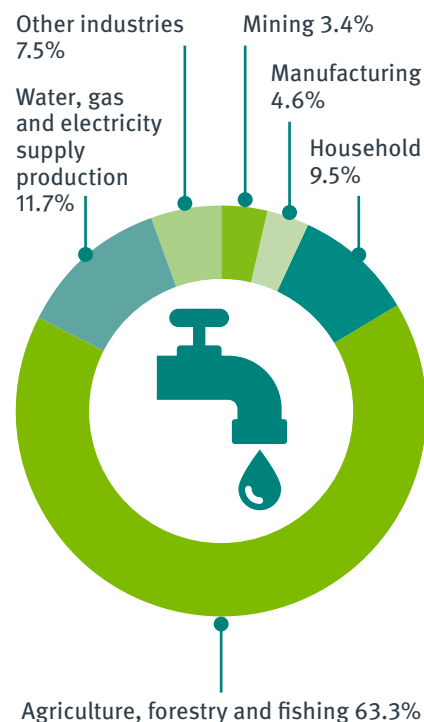
26 dams

Seqwater

- ▶ \$11 B of assets
- ▶ 51 weirs
- ▶ 36 water treatment plants
- ▶ 646 km of supply pipelines



Queensland's water consumers



Note: Most communities in Queensland have a potable bulk water drinking supply.

National Water Infrastructure Development Fund

The National Water Infrastructure Development Fund (NWIDF) is an initiative of the Australian Government to accelerate the assessment of water infrastructure options which could stimulate regional economic activity.

Through Part 1 of the NWIDF, Queensland proponents are receiving a total of \$24.8 million in funding for 15 water infrastructure feasibility studies. This includes the \$5 million allocated for the Nullinga Dam feasibility study—which is now progressing to a detailed business case and \$2 million for the Lower Fitzroy River Infrastructure Project—which identified Rookwood Weir for further consideration by both the Queensland and Australian governments. Other feasibility studies include:

- ▶ Burdekin Falls Dam Raising Feasibility Study – funding of \$400,000
- ▶ Burdekin Haughton Channel Capacity Upgrade Feasibility Study – funding of \$1.915 million
- ▶ North West Queensland Strategic Water Storage Feasibility Study – funding of \$1.765 million
- ▶ Urannah Dam Feasibility Study – funding of \$3 million

- ▶ South East Queensland Treated Effluent for Agricultural Production Feasibility Study – funding of \$650,000
- ▶ Emu Swamp Dam Feasibility Study – funding of \$3.97 million
- ▶ Hells Gates Dam Feasibility Study – funding of \$2.2 million.

Under Part 2 of the NWIDF, which provides funding contributions for capital works, two Queensland projects have been funded by the Australian Government:

- ▶ \$11.6 million for upgrades to the Mareeba–Dimbulah Water Supply Scheme
- ▶ \$3 million for upgrades to the Nogoia Mackenzie Water Supply Scheme.

Both of these projects are now developing proposed project plans subject to establishing the required agreements between the Queensland and Australian governments. Further to this, the Australian Government has made a \$176 million funding commitment for construction of Rookwood Weir.

Bundaberg's 10-year action plan

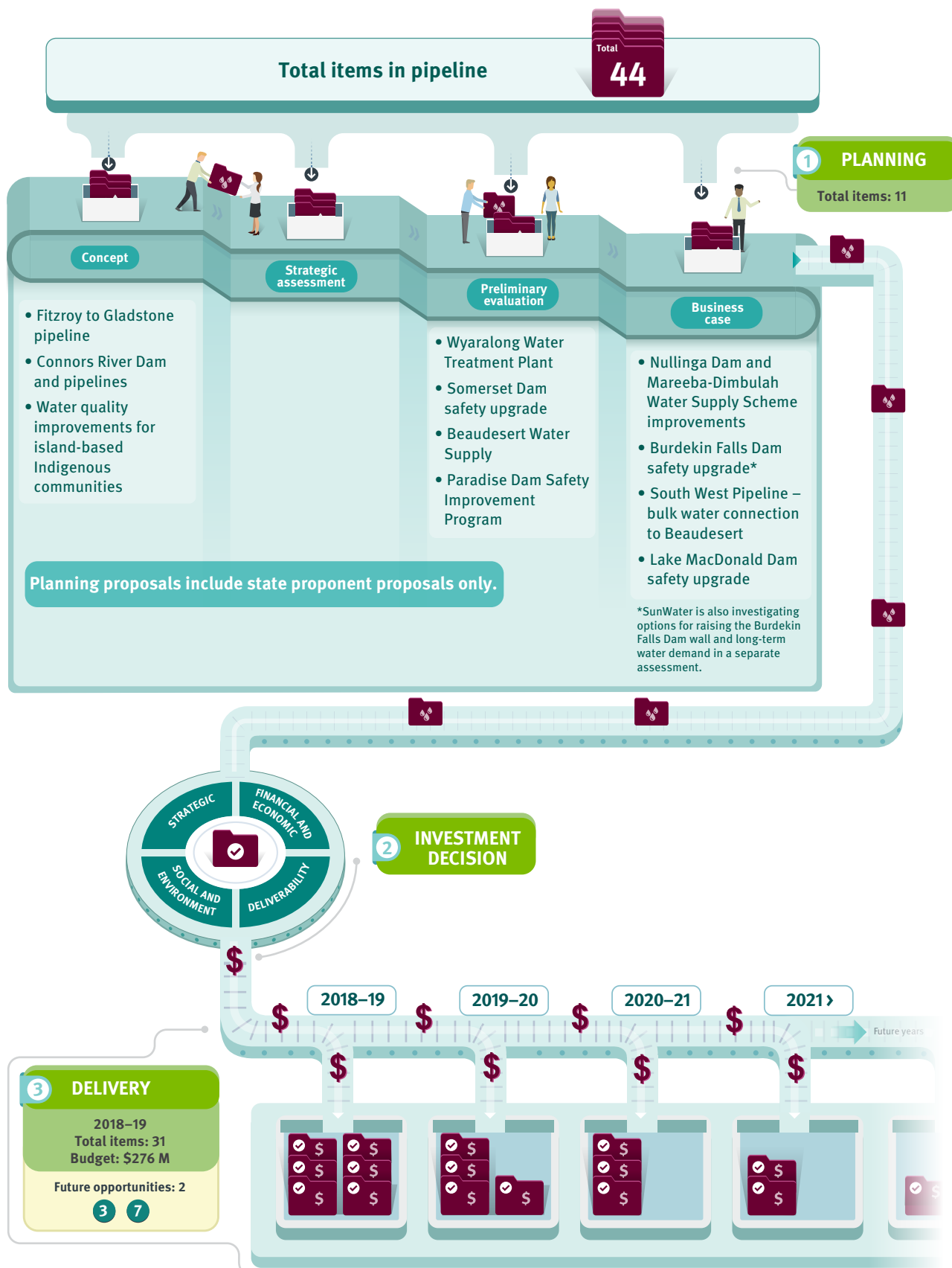
Following the devastation of the 2013 floods, the Queensland Government has worked with the Bundaberg Regional Council and the community to identify actions to reduce future flood risk to residents, businesses and the local economy.

As a result, the *Bundaberg 10-year Action Plan* has been developed to set out the actions required to reduce flood risks in Bundaberg and improve the safety of the Bundaberg community. The government is honouring an election commitment by committing \$4 million to commence technical investigations.

Focusing on four projects, the action plan includes a mix of works that involve changing flood behaviour and measures that will enable affected residents to respond to a flood event and build a safer, more resilient city:

- ▶ Upper floodplain evacuation improvements – improved road access for Goodnight Scrub, Morganville, Pine Creek, Givelda and Electra.
- ▶ Bundaberg north evacuation route – improved road, cycle and pedestrian access for Bundaberg North and Goomburra.
- ▶ Bundaberg East Levee – flood mitigation for much of Bundaberg East, Bundaberg South and parts of the CBD.
- ▶ Floodway house purchase scheme – land purchases or land swaps in selected Bundaberg north locations.

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Beaudesert Water Supply zone upgrade	3.050		●			0.050	3.000			
Emergency management response plan	Ongoing		●				0.345			
Lake McDonald Dam upgrade (stage 2)	6.238		●			5.193	1.045			
Leslie Harrison Dam safety upgrade	24.572		●			2.072	13.000	9.500		
Mount Crosby East Bank Water Treatment Plant Filtration Upgrade	34.171		●			1.678	1.500	15.000	15.993	
Sideling Creek Dam safety upgrade (stage 1)	18.000		●			1.957	10.000	6.043		
Somerset Hydro refurbishment	12.620		●			10.671	1.699	0.250		
Regional Queensland										
Burdekin hydro prefeasibility study	0.375		●				0.375			
Burdekin Falls Raising Feasibility Study	2.720		●				2.720			
Chlorine dose equipment upgrade	3.602		●				0.364	1.486	1.752	
Connection to Gladstone Regional Council Kirkwood Reservoir	7.003		●			0.267	1.272	5.464		
East End Reservoir various works	1.790		●			1.243	0.547			
Gladstone Area Water Board various projects	23.140		●			8.723	14.417			
Gladstone Area Water Board offline storage and repump station	33.757		●			30.130	3.627			
Glen Niven Dam	5.000		●				5.000			
Hatchery relocation project	6.522		●			0.218	2.950	3.354		
Lake Julius power pole replacement	Ongoing		●				0.280			
Moondarra to Mount Isa Terminal Reservoir pipeline upgrade	2.881		●				1.000	1.689	0.192	
Mount Isa Terminal Reservoir storage tanks	2.887		●			0.891	1.996			
Mount Isa Water Board minor projects	Ongoing		●				0.768			
Mount Isa Water Board various projects	6.548		●			1.640	2.662	0.549	1.697	
Paradise Dam – Safety Improvement Program, project 2	Ongoing		●				0.319			
Power reliability Hilton – Lake Julius	7.763		●			1.011	1.742	2.057	2.953	

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Regional Queensland										
Power reliability Moondarra System	1.289		●			1.074	0.215			
Rookwood Weir ³²	352.000	●	●				66.000	83.000	203.000	
SunWater business development opportunity	0.525		●				0.525			
Thuraggi Channel repair	Ongoing		●				1.230			
Statewide										
ICT capital program	Ongoing		●				10.593			
Seqwater ongoing projects and programs	Ongoing		●				106.359			
SunWater ongoing programs	Ongoing		●				8.759			
SunWater various programs	11.349		●				11.349			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Some figures may differ from the 2018–19 Budget Paper 3 where there have been minor reconciliation issues or minor adjustments to entities' infrastructure programs.

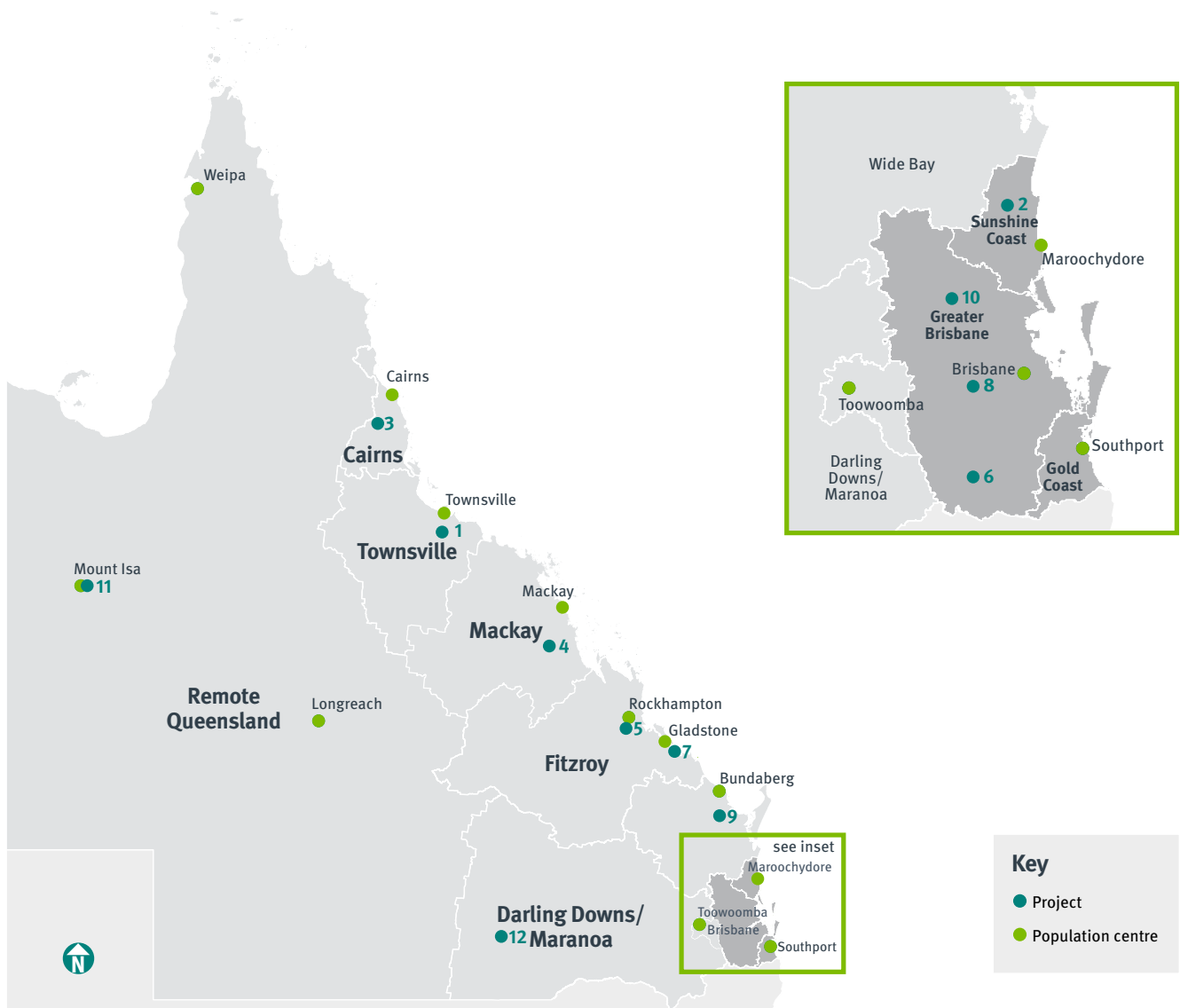


Burdekin Falls Dam improvement

³² The budget profile is consistent with 2018–19 Budget Paper 4 and may change as the project progresses.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Burdekin Falls Dam safety upgrade	5	Rookwood Weir
2	Lake McDonald Dam safety upgrade	6	Beaudesert Water Supply Zone Upgrade
3	Nullinga Dam and Mareeba-Dimbulah Water Supply Scheme improvements	7	Gladstone Area Water Board Offline Storage and Repump Station
4	Connors River Dam and pipelines	8	Mount Crosby East Bank Water Treatment Plan Filtration Upgrade
		9	Paradise Dam – Safety Improvement Program, project 2
		10	Somerset Hydro Refurbishment
		11	Moondarra to Mount Isa Terminal Reservoir pipeline upgrade
		12	Thuraggi Channel repair



Water security a top priority in Townsville

Providing Townsville with water security has been one of the top priorities of the Townsville City Deal. In March 2017, the Townsville Water Security Taskforce was established to investigate short, medium and long-term solutions for water security.

The taskforce provided an interim report to the Prime Minister and the Queensland Premier in June 2017, with a final report due by 30 September 2018.

The Queensland Government has committed \$225 million over four years towards implementation of the findings of the taskforce which includes

\$215 million towards the duplication of the pipeline from Hughton Pump Station to Ross River Dam and \$10 million to deliver a community water transition package.

Townsville City Council is now progressing the pipeline duplication, local water efficiency programs, and new devices and technologies that will help Townsville residents and businesses save water.



Water security measures will assist Townsville residents and businesses

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Provide clear, transparent and science-based mechanisms to identify and make available water resources to support resource, agricultural and industrial expansion and development.

Status: Operational and policy innovations are being investigated to more readily support development opportunities. For example, there is significant potential to continue to use the water planning and water allocation framework under the *Water Act 2007* to make water available, informed by robust science and community consultation. This opportunity will be reported as part of the new QBWOS future opportunity 7 in future updates.

Opportunity 2

Work with local government on water supply solutions for communities with projected water supply shortfalls resulting from increased growth or drought.

Status: Fifteen regional water supply security assessments have been finalised and six are currently underway. The delivery of this program is progressing well and has advanced past the opportunity stage. The program is being delivered as an ongoing package or program of work and will not be reported on in future SIP updates.

Opportunity 3

Maintain water supplies to meet requirements, minimise flood risks and keep dams safe.

Status: SunWater and Seqwater maintain dams through their dam safety improvement programs. Dam improvement works are commencing at dams including Burdekin Falls Dam and Paradise Dam. This work is now undertaken as business-as-usual and in most cases has advanced to active projects being investigated or proceeding to investment and delivery.

Opportunity 4

In partnership with local governments and water utilities, assess options to provide new water sources to the northern part of SEQ where demand is forecast to exceed supply beyond 2030.

Status: Following the SEQ Water Security Program released in 2017, options are being examined for the next new water source for northern SEQ.

Opportunity 5

Facilitate more efficient use of existing water resources and infrastructure assets and optimise access through continued expansion of water trading and flexible water sharing arrangements across the state.

Status: The QBWOS contains initiatives to drive more efficient use of resources and assets. The state's water planning has established tradeable water allocations. Further opportunities to increase flexibility in the market and trading rules that would drive further efficiency of use are being considered. Additionally, water plans have provided for new water entitlements to be released to the market through setting aside reserves of unallocated water.

Opportunity 6

Consider the use of fit-for-purpose alternative bulk water sources and opportunities to meet future demands in innovative ways.

Status: Potential alternative water sources for the bulk water sector are being considered as part of the QBWOS. Alternative options could include ground water and non-traditional water supply sources such as storm water harvesting. The opportunities that are being advanced further are those that align with QBWOS.

New 2018 Future Opportunities

PLANNING

Opportunity 7

Prioritise bulk water infrastructure proposals and improve assessment processes.

Status: The Department of Natural Resources, Mines and Energy will consider additional water specific elements that are required to support existing infrastructure assessment and business case development processes to establish best practice processes. This will assist with the optimisation of investments and ensure future water demand requirements and environmental impacts are appropriately considered.

The Department of Natural Resources, Mines and Energy is also coordinating an assessment of water infrastructure proposals that have significant economic benefits. Subsequent versions of QBWOS will contain information on the outcomes of these activities. The next version of QBWOS is due to be updated in late-2018.

Opportunity 8

Optimise existing infrastructure to maximise value.

Status: The QBWOS contains initiatives to drive more efficient use of resources and assets.

As part of a strategy to optimise utilisation of existing infrastructure, the Department of Natural Resources, Mines and Energy website has been updated to improve access to water information to potential customers and stakeholders and further initiatives are planned to proactively assist customers.

Other initiatives in development include:

- ▶ the provision of integrated advice to water customers regarding water access
- ▶ proactive assistance and/or online services, improved information to increase market efficiency, improved water market access
- ▶ an investigation of options for allowing alternative uses of water currently reserved for strategic infrastructure.

These initiatives will provide both short-term and long-term benefits.



Bouliia Reservoir



Mount Crosby East Bank Water Treatment Plant

Health



Kenilworth Ambulance Station upgrade

The delivery of sustainable, high-quality healthcare in Queensland requires flexible infrastructure that meets the future demands of Queensland communities. Managing growing demand for healthcare services while providing equitable access and improving health outcomes continues to be a key area of focus.

The Department of Health as system manager is responsible for statewide health system planning to inform operational and infrastructure investment decisions. Statewide health infrastructure planning follows the framework outlined in SIP and prioritises opportunities to improve service performance, better use services, improve the use of existing infrastructure and, where appropriate, consider the construction of new infrastructure. In the health system, this approach requires taking advantage of emerging technologies and innovative models of care, strategic workforce planning and providing services for all Queenslanders in the right place and the right time.

The current statewide planning approach follows key directions to:

- ▶ support a sustainable health system for future generations
- ▶ keep people well and reduce the need for people to be hospitalised
- ▶ deliver innovative, high-quality and safe models of care
- ▶ provide health services in alternate settings and as close to home as is safe and feasible to do so
- ▶ prioritise capital investment to ensure the health system can meet the needs of our ageing and growing population.

These plans will continue to improve the efficiency of health services and produce better patient outcomes across Queensland.



Caboolture Hospital

Key initiatives

Building Better Hospitals Program

- ▶ The \$679 million program (including \$5 million for the Cancer Council Queensland) addresses Queensland's growing healthcare demands, including enhancing public hospital capacity and services. A sample of initiatives is provided below.

South East Queensland

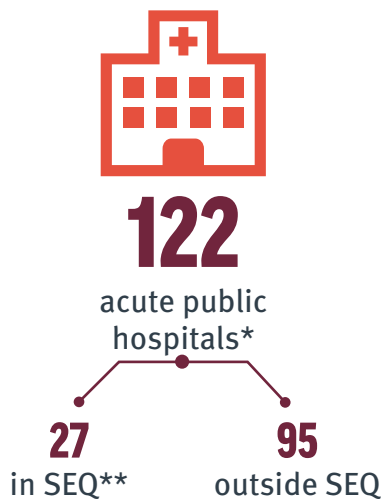
- ▶ The Logan Hospital redevelopment will increase bed capacity by 192 beds to a total of 640 beds and expand the maternity ward by providing an additional six inpatient beds, additional delivery rooms and an additional 10 to 14 cots.
- ▶ The Caboolture Hospital redevelopment will expand bed capacity by 130 beds to a total of 390 beds.
- ▶ Stage 1A of the Ipswich Hospital redevelopment will deliver a new mental health facility, an MRI suite and an integrated community healthcare centre and outpatients facility.

Regional Queensland

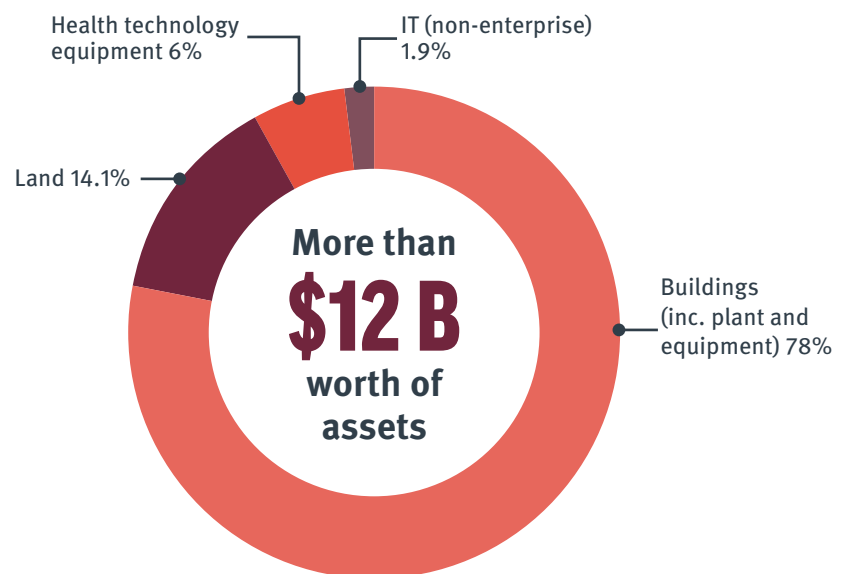
- ▶ Hospitals and health facilities will continue to be expanded including new or substantial refurbishments at Atherton, Blackall and Cairns hospitals.
- ▶ Business cases will be progressed for refurbished or new hospitals in Bundaberg and Toowoomba.

Putting Patients First Program

- ▶ The establishment and implementation of a statewide smart referral program is a key initiative of the Putting Patients First Program. The program will allow GPs, public healthcare and hospital specialists to submit and receive patient referrals through a secure online messaging system.
- ▶ The Patient Online Portal will empower patients to view and manage their outpatient healthcare journey, with greater flexibility in the provision of appointment management and information relating to their care.



Queensland's public health system



100,461

full-time and part-time health and ambulance personnel



70

primary healthcare centres



8

ambulance communication centres and 290 response locations

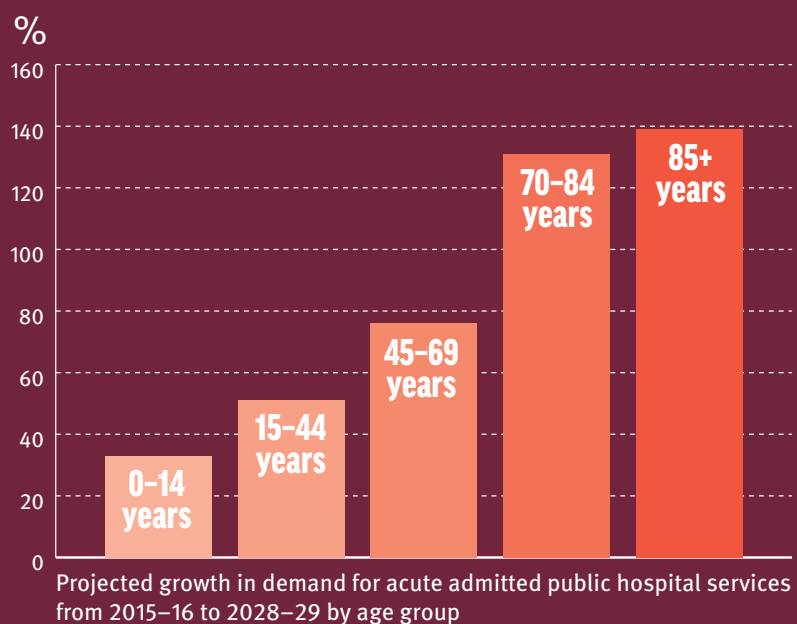


29,000

wireless access points

Overall demand for acute public hospital services is predicted to grow by

78%
from 2015–16
to 2028–29



Note:

* Acute public hospitals provide health services to people experiencing the intensification of an existing condition or the onset of a new illness or injury requiring hospitalisation or specialist services.

** SEQ is defined by the following Hospital and Health Services boundaries: Metro North, Metro South, Gold Coast, West Moreton and Sunshine Coast.

The Building Queensland and Queensland Health partnership experience

Queensland Health and Building Queensland have partnered to successfully improve the development of business cases for major capital works projects such as the redevelopment of Logan and Caboolture hospitals. Through this partnership, significant steps have been taken to understand the indicators and measures that can be used to support large-scale health projects. A rigorous and robust economic and financial assessment framework for large-scale health projects has also been developed.

The partnership has contributed to more informed social infrastructure investment decision-making and improved business case development processes in Queensland Health. Queensland Health plans to apply the learnings to all health infrastructure business cases including projects under \$100 million and the next round of business cases for the Ipswich, Toowoomba and Bundaberg hospitals.

Health infrastructure initiatives in remote and regional Queensland

The Queensland Government has allocated approximately \$290 million to improve health infrastructure in regional and remote areas across the state. To date, health infrastructure upgrades at Aramac, Alpha, Cloncurry and Dimbulah have been delivered and the planning and delivery of infrastructure upgrades at Blackall, Cairns, Julia Creek and Boulia is underway.

Additionally, Queensland Health is progressing a range of infrastructure planning initiatives (including primary healthcare centre replacements) in Aboriginal communities such as Thursday Island and Mer (Murray Island) in the Torres Strait and Cape York region and Kowanyama and Aurukun in Far North Queensland.

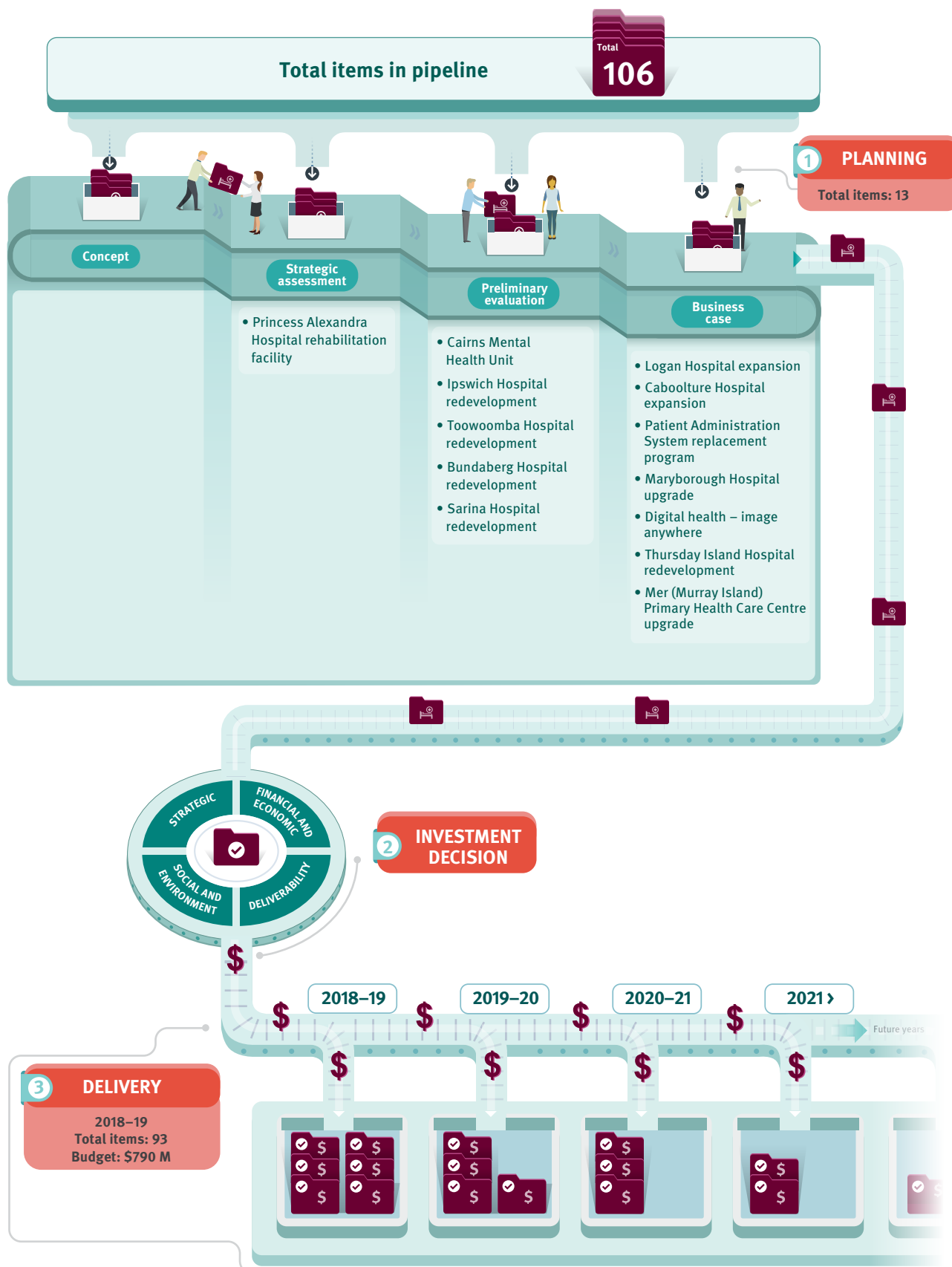
Staff accommodation in remote and regional Queensland is being improved and upgraded to attract and retain health professionals. Queensland Health is investing \$13 million to deliver upgraded staff facilities at Burketown, Mareeba, Hughenden, Richmond and several Torres Strait Island locations. Staff accommodation upgrades allow health professionals to be a part of the local community while also providing a residence close to the health facility.

The combination of modern health infrastructure and skilled health professionals supports an inclusive and effective health service in regional and remote Queensland.



Dimbulah Hospital upgrade

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Adolescent mental health facilities	68.237		●			6.567	28.063	33.153	0.454	
Caboolture Hospital Emergency Department expansion	19.600		●			10.809	8.791			
Caloundra Health Service refurbishment	17.000		●			11.117	5.883			
Children's Health Queensland HHS ongoing programs	Ongoing		●				3.866			
Children's Health Queensland Imaging Informatics Program	5.900		●				2.976	2.924		
Gold Coast HHS ongoing programs	Ongoing		●				7.869			
Gold Coast Medical Imaging Informatics Solution	12.800		●			1.308	2.976	8.516		
Lady Cilento Children's Hospital resilience project	8.647		●			4.961	2.777	0.909		
Metro North HHS ongoing programs	Ongoing		●				30.506			
Metro North HHS various projects	67.333		●			48.333	19.000			
Metro South HHS ongoing programs	Ongoing		●				13.305			
Princess Alexandra Hospital cladding project	45.545		●			7.366	13.179	25.000		
Princess Alexandra Hospital rehabilitation	3.000		●				3.000			
Redcliffe Hospital carpark	36.780		●				7.508	24.098	5.174	
Redcliffe Hospital acute bed capacity	8.137		●			7.561	0.576			
Redland Hospital upgrade	1.730		●				0.375	1.355		
Royal Brisbane and Women's Hospital nuclear medicine hot-laboratory expansion	6.110		●			1.984	3.662	0.464		
Royal Brisbane and Women's Hospital specialist and ambulatory care centre	9.717		●			4.717	5.000			
Nundah Step-Up Step-Down Facility	5.024		●			4.799	0.225			
Sunshine Coast HHS ongoing programs	Ongoing		●				9.225			
Sunshine Coast University Hospital	1,872.151		●			1,763.819	34.511	20.899	40.205	12.717
Sunshine Coast University Hospital Group 4 ICT project	33.107		●			16.501	16.606			
University of Queensland Oral Health Centre, Herston	4.699		●			0.375	3.040	1.284		
West Moreton HHS ongoing programs	Ongoing		●				4.254			

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Queensland Ambulance Service										
Gold Coast Ambulance Operations Centre redevelopment	6.200		●			0.200	4.000	2.000		
Yarrabilba new ambulance station	4.600		●			0.200	3.500	0.900		
Regional Queensland										
Bundaberg Adult Step-Up Step-Down Facility	4.822		●		3.412	1.261	0.149			
Gladstone Adult Step-Up Step-Down Facility	4.727		●		3.019	1.708				
Aurukun Primary Health Care Centre redevelopment	6.653		●		5.111	0.806	0.736			
Blackall Hospital redevelopment	17.900		●		0.361	1.230	13.021	3.288		
Boulia Community Hospital refurbishment	2.000		●		0.306	1.694				
Cairns and Hinterland HHS ongoing programs	Ongoing		●			6.794				
Cairns Hospital Cardiac Catheter Laboratory	2.800		●			1.400	1.400			
Cairns Hospital Mental Health Unit	70.000		●		0.595	1.174	2.390	65.841		
Cairns Hybrid Theatre	3.681		●		0.681	3.000				
Kowanyama Cape York staff accommodation	3.404		●		0.977	2.427				
Central Queensland HHS ongoing programs	Ongoing		●			4.774				
Central West HHS ongoing programs	Ongoing		●			1.089				
Clermont Monash Lodge	2.000		●		0.051	1.949				
Darling Downs HHS ongoing programs	Ongoing		●			6.728				
Gladstone Hospital Emergency Department	42.000		●		4.762	26.826	10.412			
Hervey Bay Hospital Emergency Department	42.460		●		30.556	11.904				
Kingaroy Hospital redevelopment	62.000		●		8.000	20.000	30.000	4.000		
Mackay Adult Step-Up Step-Down Facility	4.929		●		0.809	4.120				
Mackay HHS ongoing programs	Ongoing		●			2.773				
Mackay HHS various projects	2.141		●		0.433	1.708				
Mareeba Hospital computed tomography (CT) scanner	5.000		●			4.000	1.000			
Maryborough Hospital Emergency Department	5.000		●		0.767	2.350	1.883			

1–4 year program

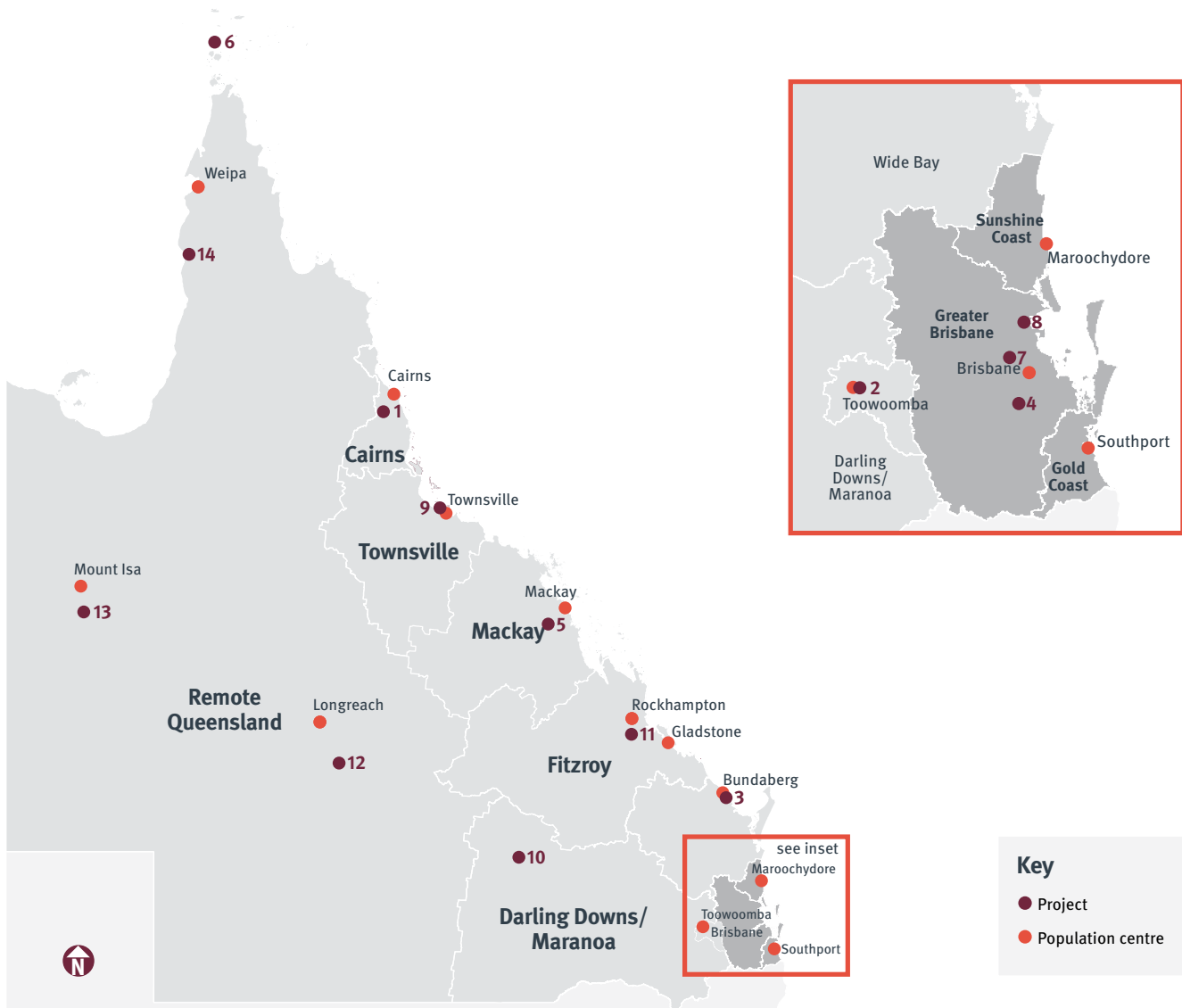
Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Regional Queensland										
Maryborough Hospital Specialist Outpatients refurbishment	5.000		●			0.352	4.648			
Mer (Murray Island) Primary Health Care Centre replacement	7.000		●			0.403	0.425	2.672	3.500	
Mornington Island staff accommodation	2.000		●			0.200	1.800			
North West HHS ongoing programs	Ongoing		●				1.393			
Palm Island Primary Care Centre	16.500		●			7.518	7.741	1.241		
Proserpine Simulation Laboratory	0.100		●				0.100			
Rockhampton Drug Rehabilitation and Treatment Facility	9.500		●				1.000	3.100	5.400	
Rockhampton Hospital carpark	25.500		●			5.691	15.664	4.145		
Roma Hospital redevelopment	90.400		●			9.525	40.144	40.731		
Sarina Hospital redevelopment	16.500		●			0.111	5.463	10.926		
South West HHS ongoing programs	Ongoing		●				1.762			
Toowoomba Magnetic Resonance Imaging (MRI) Facility	8.350		●			6.646	1.704			
Torres and Cape capital projects	0.936		●				0.936			
Torres and Cape HHS ongoing programs	Ongoing		●				2.217			
Townsville HHS ongoing programs	Ongoing		●				10.343			
Townsville Hospital Adult Acute Mental Health Inpatient Unit	2.775		●				2.775			
Townsville Hospital Clinical Services redevelopment	10.400		●			0.418	9.982			
Townsville Hospital expansion	333.999	●	●			328.505	5.494			
Townsville Hospital Magnetic Resonance Imaging (MRI) device	4.700		●				2.350	2.350		
Townsville Hospital Paediatrics Unit	6.600		●			6.500	0.100			
Wide Bay HHS ongoing programs	Ongoing		●				4.583			
Queensland Ambulance Service										
Cairns Station and Operations Centre redevelopment	5.600		●			0.150	0.900	4.550		
Kirwan Station replacement	5.000		●			0.010	0.350	4.640		
Mareeba replacement Ambulance Station	1.800		●				0.400	1.400		

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Queensland Ambulance Service										
New Drayton Station	4.600		●			0.020	1.200	3.380		
New Hervey Bay Station	4.600		●			0.010	0.300	4.290		
Rockhampton Station and Operations Centre redevelopment	5.000		●			0.120	1.300	3.580		
Statewide										
Advancing Queensland Health Infrastructure Program	230.000		●			18.753	26.607	56.440	128.200	
Building Better Hospitals	674.000		●			3.000	28.700	92.100	517.613	32.587
Building works project finalisation	Ongoing		●				0.850			
Building works capital project management	1.901		●				1.901			
Business cases and preparatory work	9.000		●			5.868	3.132			
Capital program land acquisition	2.000		●				2.000			
Financial systems replacement (other property, plant and equipment)	105.000		●			80.000	25.000			
Master planning studies	Ongoing		●				6.930			
Ongoing programs	Ongoing		●				84.556			
Priority capital program	Ongoing		●				80.000			
Queensland Health External Cladding Taskforce project	4.545		●			0.643	3.902			
Regional eHealth project	34.950	●				11.804	20.656	2.490		
Staff accommodation program (Regional Queensland)	13.000		●			2.204	8.069	1.480	1.247	
General chemistry and immunoassay replacement and automation project	16.511		●			8.941	7.570			
Telehealth (revitalisation of regional, rural and remote health services)	0.360		●				0.360			
Queensland Ambulance Service										
Minor works	Ongoing		●				5.500			
Ongoing programs	Ongoing		●				20.673			
Statewide strategic land acquisitions	Ongoing		●				1.500			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.
A range of health ICT projects are represented in the digital infrastructure class 1–4 year table

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Cairns Mental Health Unit	8	Redcliffe Hospital carpark
2	Toowoomba Hospital redevelopment	9	Palm Island Primary Care Centre
3	Bundaberg Hospital redevelopment	10	Roma Hospital redevelopment
4	Logan Hospital expansion	11	Rockhampton Station and Operations Centre redevelopment
5	Sarina Hospital redevelopment	12	Blackall Hospital redevelopment
6	Thursday Island Hospital redevelopment	13	Bouli Community Hospital refurbishment
7	Princess Alexandra Hospital rehabilitation facility	14	Aurukun Primary Health Care Centre redevelopment



Providing improved health services at Wynnum

The new Wynnum-Manly Community Health Centre, known as Gundu Pa, is a state-of-the-art health centre that provides a welcoming, peaceful environment with landscaped gardens and purpose-built gyms and treatment rooms.

Extensive community consultation focused on the service mix and concept design elements. The centre, which was opened in October 2017, provides a significant boost to the local health services and round-the-clock access to healthcare.

Health services provided at Gundu Pa include:

- ▶ a new 24-hour primary care centre
- ▶ a new specialist outpatient clinic
- ▶ expanded allied health, oral health, breast screening and chronic disease services
- ▶ maintained child development, addiction and mental health services.

As part of the effort to maintain and expand health services in Wynnum, Casuarina Lodge (situated next door to Gundu Pa) provides general hospital beds and supports hospital-in-the-home services, enabling clinicians to treat patients in their own home.



Wynnum-Manly Community Health Centre (Gundu Pa)

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Strategically respond to the increasing demand for healthcare services (10-year horizon) through delivery of efficient healthcare infrastructure involving better use and re-use of facilities and changing models of care.

Status update: Queensland Health is implementing statewide planning objectives through the development of local infrastructure master plans. Master planning involves refreshing 10-year health service demand forecasts and identifying health infrastructure required to meet demand. This ensures that options, such as the better use of existing health infrastructure, are considered before developing business cases for new health infrastructure proposals.

Queensland Health is starting a collaborative process with other agencies to enable preventive health focused infrastructure to be considered during planning and investment phases for example, regional recreational infrastructure and end of trip facilities.

Opportunity 2

Renewal and utilisation of the ageing health asset base over a 10-year horizon through investment in renewal to promote performance and reduce operating costs.

Status update: In conjunction with Hospital and Health Services, Queensland Health is developing a Strategic Asset Management Planning Framework to enable the integration of regional planning and asset management to improve the alignment of renewal investments to health service demands.

Opportunity 3

To achieve innovation in delivery of health infrastructure solutions through smart infrastructure and new models of service to future proof healthcare provision in Queensland.

Status update: Queensland Health continues to develop a coordinated program of work to implement alternative models of care through partnerships with primary health networks and other organisations. Expansion opportunities for telehealth and hospital-in-the-home services are being implemented across the state.

The Digital Hospital Program is currently being rolled out and is scheduled to deliver the integrated electronic Medical Records (ieMR) system in 27 hospitals across the state by 2020. The My Health Record Collaboration project is being progressed and the Financial System Renewal project is planned to go live in 2018.

The utilisation of telehealth services has continued to grow as a key enabler in delivering rural and remote health services in Queensland and enabling specialised patient care closer to home and more efficient use of limited health system resources.



Mount Isa Base Hospital redevelopment

Education and training



Education and training profoundly influences our lives. Providing an inspiring and well-maintained learning environment is essential to the success and wellbeing of students, particularly our children.

The Queensland Government is committed to providing a world-class education and training system to support students in their journey through education and training and into employment.

Queensland continues to experience increased demand for education services. This is due to population growth, increased kindergarten participation, higher Year 12 completion rates, compulsory prep enrolment, along with increases in special school enrolments and demand for special education programs and services.

Over the next 14 years, enrolments in state schools are expected to increase by 23 per cent to more than 672,000 students.

At the same time, TAFE Queensland will continue to provide training to more than 120,000 Queenslanders each year.

Queensland's education and training infrastructure needs to be high-quality, flexible, fit-for-purpose and future-focused. Many facilities are ageing, affecting their overall quality and suitability to respond to the future direction of education and training service delivery.

Investment in infrastructure to improve use, a long-term approach to maintenance and renewal of schools and TAFE campuses are ongoing priorities

At the start of 2018, over 900 state schools and early childcare centres had completed asset life cycle assessments, with the remaining schools scheduled to complete assessments by mid-2018. These assessments will support future maintenance planning over the next 10 years, informing future investment decisions.

Key initiatives

New schools

- ▶ Four new state schools were opened in 2018, a total investment of more than \$140 million. These included:
 - Baringa State Primary School at Caloundra South
 - North Shore State School at Townsville
 - Picnic Creek State School at Coomera East
 - Yarrabilba State School at Logan.

Advancing Queensland Schools

- ▶ The \$200 million Advancing Queensland Schools initiative will deliver an investment of \$116 million new or upgraded halls at 30 schools across the state. More than \$83 million has also been set aside for strategic land purchases for the new schools and the expansion of existing schools.

Renewing and maintenance

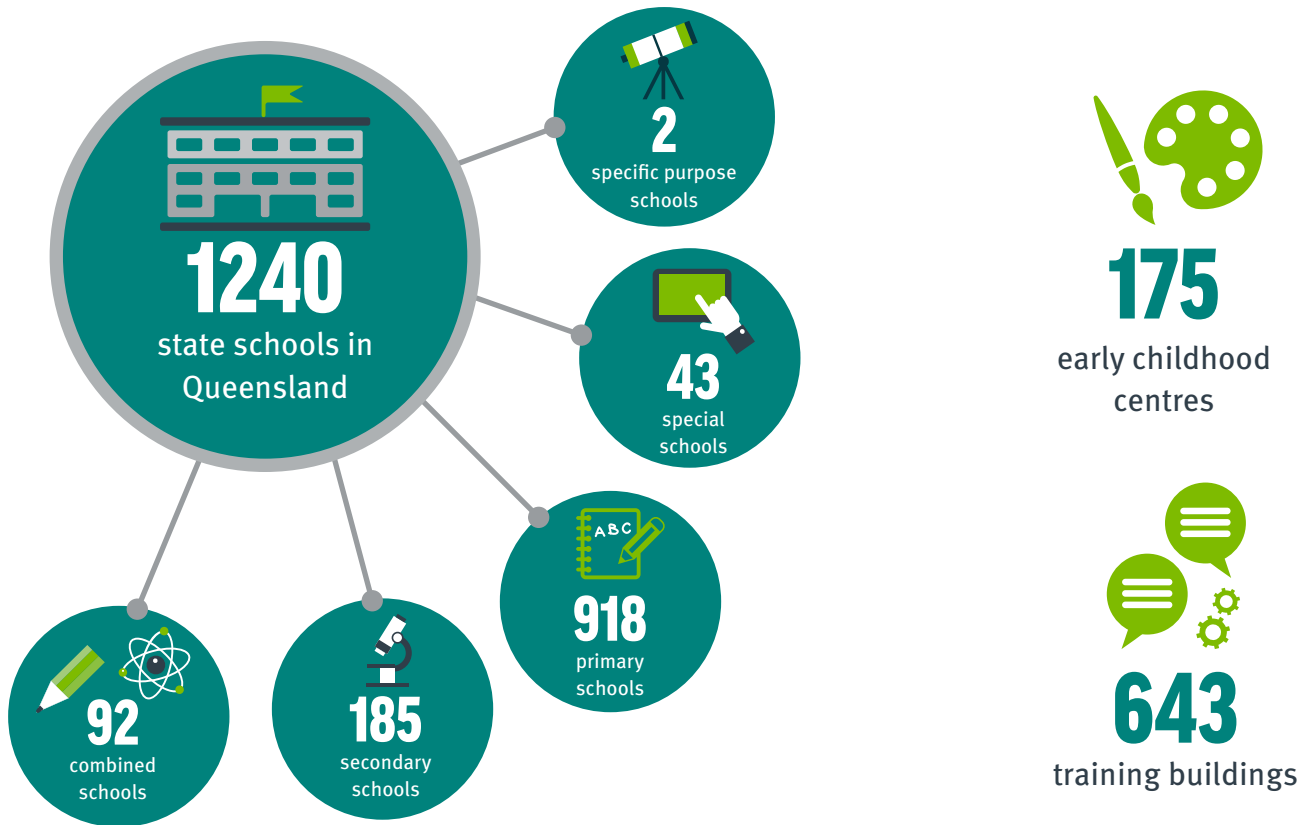
- ▶ \$235 million will be invested over the next four years under the Renewing our Schools program to renew education assets at 17 schools.
- ▶ A further \$941 million investment is projected to be invested in maintenance over the next four years.

2020 Ready

- ▶ \$250 million will be invested over two years to deliver additional classrooms and learning centres in more than 60 high schools across Queensland.
- ▶ This investment ensures our schools can accommodate the additional 17,000 students expected in high schools from 2020 and into the future.

Advancing our Training Infrastructure program

- ▶ The Queensland Government continues to recognise TAFE Queensland as the premium provider of vocational education and training.
- ▶ Up to \$85 million will be invested over three years, including upgrades at Pimlico, Toowoomba, Cairns and Mt Gravatt TAFEs and those within the Gold Coast and Redlands regions.
- ▶ Additional TAFE facilities to be redeveloped and expanded include a \$1.5 million fashion hub at Mt Gravatt, a \$500,000 nurse training centre at Caboolture and a \$1 million upgrade of nursing training facilities at Loganlea.



\$808 M
Building Future
Schools Fund

\$19 B
total of education and
training assets

Over the next 14
years, state school
enrolments will
increase by around

23%

Projected additional
80 to 100

new schools
required state wide
over the next

20
years



Doomadgee State School nutrition centre upgrade

Doomadgee State School is a small school located in the Gulf Country in far north-west Queensland. Day-to-day running of the school is underpinned by a set of values locally referred to as 'The Doomadgee Way'. These values include looking [after everyone and everything.

As part of these values, the school is involved in the allied health program: Be Well, Learn Well, to support Aboriginal and Torres Strait Islander student development needs. The integration of early intervention and health promoting courses in the school setting is central to the Be Well, Learn Well program. The program allows for an integrated workforce of education and health professionals to respond holistically to the risk factors influencing child development and schooling outcomes, including nutrition.

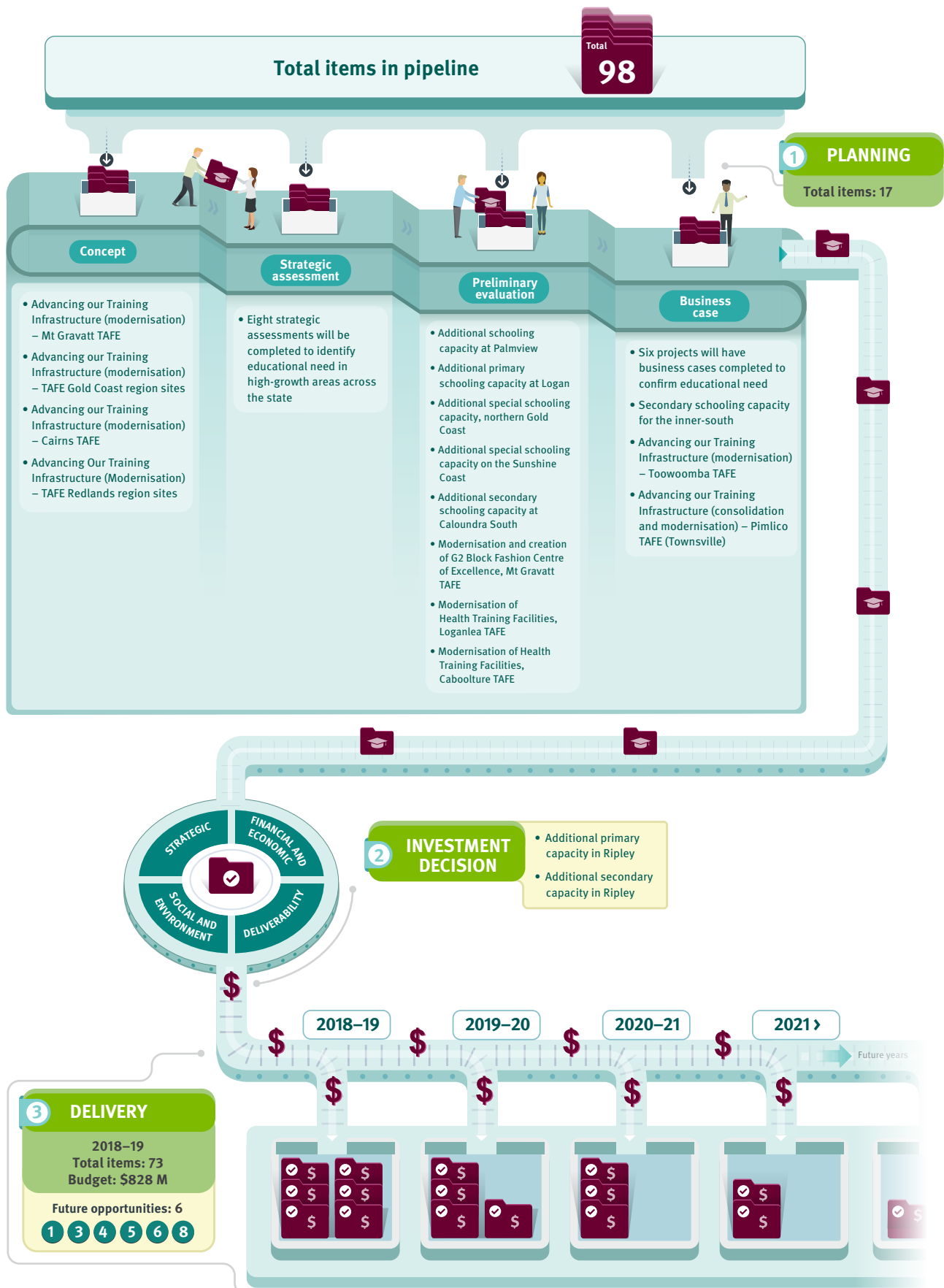
Through investment provided under the Department of Education's Infrastructure Investment Program, the school's nutrition centre has been refurbished. The centre now has a commercial kitchen with commercial cooking equipment, outdoor area, coffee machines (for barista training) and dry stores.

With these modernised facilities, the school is now better able to support the Be Well, Learn Well program and the broader school strategy of promoting positive health and wellbeing for students. With the change in the external appearance of the major teaching blocks, morale and school pride has increased, the safety of staff and students has improved and the school is now able to provide a better environment for learning.



Baringa State School

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	2019–20	Indicative 2020–21 to 2021–22	Beyond
South East Queensland										
Baringa State Primary School new school	29.361		●			22.040	3.817	3.504		
Beenleigh State High School additional classrooms	7.284		●			0.161	7.123			
Bremer State High School additional classrooms	7.373		●			0.173	7.200			
Bribie Island State High School additional classrooms	9.232		●			0.052	1.669	7.511		
Brightwater State School additional classrooms	6.030		●			0.270	1.350	4.410		
Broadbeach State School additional classrooms	7.200		●			0.180	1.620	5.400		
Caboolture State High School additional classrooms	8.872		●			0.052	1.604	7.216		
Cavendish Road State High School additional classrooms	7.612		●			0.052	1.377	6.183		
Centenary State High School additional classrooms	7.612		●			0.052	1.377	6.183		
Chancellor State College additional classrooms (secondary)	10.872		●			0.840	10.032			
Cleveland District State High School additional classrooms	13.185		●			0.063	2.381	10.741		
Currimundi Special School additional classrooms	9.540		●			8.061	1.479			
Ferny Grove State High School additional classrooms	12.202		●			0.052	1.620	10.530		
Griffin State School additional classrooms	9.450		●			0.090	1.710	7.650		
Helensvale State High School additional classrooms	10.055		●			2.792	7.263			
Indooroopilly State High School additional classrooms	15.262		●			0.052	2.754	12.456		
Ipswich State High School performing arts centre	7.618		●			0.670	6.948			
Kelvin Grove State College Queensland Ballet Facility	9.000		●			0.360	2.340	6.300		
Laidley State High School additional classrooms	8.782		●			0.052	1.588	7.142		
Mansfield State High School additional classrooms (building 1)	6.500		●			0.974	5.526			
Mansfield State High School additional classrooms (building 2)	8.578		●			0.262	1.800	6.516		
Milton State School additional classrooms	7.239		●				1.713	5.526		
Mountain Creek State High School additional classrooms	17.653		●			0.733	16.920			
Murrumba State Secondary College additional classrooms	11.700		●				0.900	2.700	8.100	
Picnic Creek State School new school	31.042		●			24.512	3.258	3.272		

Education and training

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	2019–20	Indicative 2020–21 to 2021–22	Beyond
South East Queensland										
New Primary School in Ripley Valley – Providence	31.500		●				5.778	13.482	12.240	
New Secondary School in Coomera/Pimpama	45.000		●				9.450	22.050	13.500	
New Secondary School at Fortitude Valley (stage 1)	73.371		●			4.662	41.931	26.778		
New Secondary School North Lakes/Mango Hill	45.000		●				9.450	22.050	13.500	
New Secondary School Ripley Valley – Providence	45.000		●				9.450	22.050	13.500	
New Secondary School Yarrabilba	45.000		●				9.450	22.050	13.500	
New Special School Caboolture	20.700		●				3.600	17.100		
North Lakes State College additional classrooms	11.072		●			5.260	5.812			
Ormeau Woods State High School additional classrooms	7.808		●			1.284	6.524			
Pacific Pines State High School additional classrooms	7.162		●			0.052	1.296	5.814		
Palm Beach–Currumbin State High School additional classrooms	8.288		●			0.052	1.499	6.737		
Park Ridge State High School additional classrooms	6.019		●			0.141	1.102	4.776		
Southport State High School additional classrooms	8.905		●			0.131	1.620	7.154		
Indooroopilly State School additional classrooms	7.650		●			0.180	1.800	5.670		
Pimpama State Secondary College additional classrooms and performing arts centre	16.524		●			7.372	9.152			
Springfield Central State High School multi-purpose hall	7.234		●			3.527	3.707			
Stretton State College additional classrooms (primary)	13.950		●			0.090	3.600	10.260		
Stretton State College additional classrooms (secondary)	7.153		●			0.065	1.296	5.792		
Sunnybank Hills State School additional classrooms	9.450		●			0.090	1.890	7.470		
Tamborine Mountain State High School additional classrooms	12.202		●			0.052	2.203	9.947		
The Gap State High School additional classrooms	8.072		●			0.916	7.156			
Yarrabilba State School new school	37.556		●			24.787	6.031	6.738		
Regional Queensland										
Centenary Heights State High School new Performing Arts Centre and classroom refurbishments	9.224		●			0.314	8.910			
Eimeo Road State School additional classrooms	6.435		●			6.159	0.276			

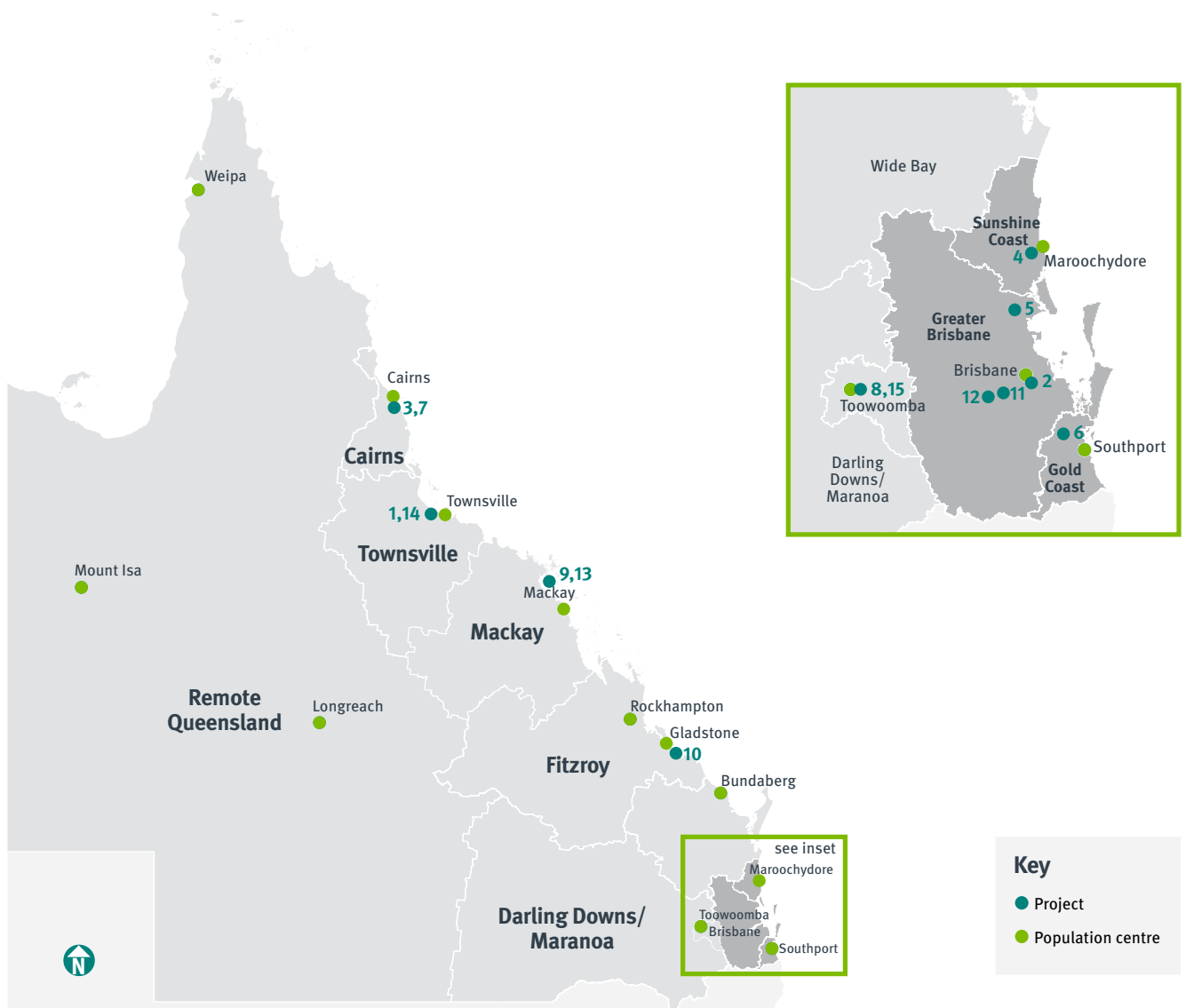
1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	2019–20	Indicative 2020–21 to 2021–22	Beyond
Regional Queensland										
Harristown State High School additional classrooms	11.960		●			0.891	11.069			
Highfields State Secondary College additional classrooms	7.937		●			2.357	5.580			
Mackay Northern Beaches State High School performing arts centre	8.808		●			1.414	7.394			
North Shore State School new school	41.831		●			27.608	6.295	7.928		
New Secondary School in Calliope (stage 1)	22.860		●			0.360	13.500	9.000		
Northern Beaches State High School additional classrooms	6.082		●			0.052	1.102	4.928		
Trinity Bay State High School additional classrooms	6.847		●			0.052	1.239	5.556		
Statewide										
Advancing Clean Energy Schools program	97.000		●			2.000	47.000	48.000		
Advancing our Training Infrastructure	85.000		●				30.000	30.000	25.000	
Capital grants	Ongoing		●				98.501			
Long jump track project	1.287		●				1.287			
Minor capital projects and acquisitions	Ongoing		●				0.400			
Product development	Ongoing		●				2.000			
Public-private partnerships	Ongoing		●				34.467			
Queensland Curriculum and Assessment Authority	Ongoing		●			8.003	5.913	3.471		
Renewing Our Schools	235.000		●				15.000	70.000	150.000	
School Infrastructure Enhancement capital contribution	Ongoing		●				24.000			
School subsidy scheme	Ongoing		●				6.300			
Statewide early childhood education and care general and minor works	Ongoing		●				0.213			
Statewide school capital works	274.087		●			70.470	114.121	89.496		
General and Minor works	Ongoing		●				47.875			
Land Acquisitions	Ongoing		●				31.170			
Training Assets Investment Program	Ongoing		●				17.250			
Plant and equipment	Ongoing		●				58.174			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Advancing our Training Infrastructure (consolidation and modernisation) – Pimlico TAFE (Townsville)	7	Trinity Bay State High School additional classrooms
2	Modernisation and creation of G2 Block Fashion Centre of Excellence, Mt Gravatt TAFE	8	Highfields State Secondary College additional classrooms
3	Advancing our Training Infrastructure (modernisation) – Cairns TAFE	9	Eimeo Road State School additional classrooms
4	Additional special schooling capacity on the Sunshine Coast	10	New Secondary School in Calliope (stage 1)
5	Modernisation of Health Training Facilities – Caboolture TAFE	11	Springfield Central State High School multi-purpose hall
6	Additional special schooling capacity, northern Gold Coast	12	New primary school in Ripley Valley – Providence
		13	Mackay Northern Beaches State High School performing arts centre
		14	North Shore State School new school
		15	Centenary Heights State High School new Performing Arts Centre and classroom refurbishments



Inner City North State Secondary College

Queenslanders are changing the way they live and where they choose to live, with more families deciding to embrace inner-city living. Over the last 10 years, around 5000 additional students have enrolled in Queensland state schools in and around the Brisbane CBD. This growth is set to continue with more than 3000 additional students expected to move into inner Brisbane in the next five years.

To help meet this demand the Queensland Government is investing more than \$800 million through the Building Future Schools Program to support these growing communities. The program includes a new secondary school in Fortitude Valley – the first new school to be built-in the inner Brisbane for more than 50 years and will be designed with vertical design solutions to reflect its urban setting.

The school will service growing communities in Brisbane's inner north and relieve enrolment pressure on Kelvin Grove State College. The first cohort of Year 7 students will start in 2020 and will grow each year until 2025, when the first Year 12 cohort will graduate from the secondary college.

Technology will be a key element of the new school with innovative and future-focused approaches. This will be supported by excellence in teaching and learning together with strong university and community partnerships.



Concept design for the Inner City North State Secondary College

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Employ non-infrastructure solutions to improve the management of over- and under-utilised education facilities.

Status update: The Department of Education continues to optimise asset utilisation through effective demand management, increased community use of facilities and leasing and hire of under-utilised facilities. For example, the remote kindergarten pilot provides access to a kindergarten program in 38 remote state schools by utilising existing staff, facilities and unused capacity.

Opportunity 2

Increase third party, including community, use of existing buildings and facilities by examining and challenging traditional operating models, including the use of sports and recreation facilities at state schools.

Status update: The community use of school facilities procedure provides opportunities for community access to school buildings and sport and recreation facilities outside school hours for appropriate purposes. The secondary use of early childhood assets encourages greater use of the Department of Education's early childhood and community engagement assets to better meet the needs of the local community.

Opportunity 3

Investigate the feasibility of sharing surplus or under-utilised education and training facilities with other government departments.

Status update: The Department of Education, working in collaboration with other Queensland Government agencies, investigates opportunities for utilisation of surplus government assets to support the delivery of whole-of-government services.

Opportunity 4

Support schools to establish strategic infrastructure plans that align curriculum and education outcomes to future school infrastructure needs.

Status update: The *Strategic School Infrastructure Plan*, which commenced in 2015, provides a framework for schools and regional educational planners when considering future infrastructure to meet their changing curriculum requirements. More than 520 schools have completed their plan. This process enables schools to identify and prioritise their asset needs to support curriculum delivery and future investment decisions.

Opportunity 5

Focus on carbon footprint (Advancing Clean Energy Schools).

Status update: Currently more than 1200 (more than 99 per cent) of state schools have small solar PV systems, with a total statewide capacity of around 7.5 megawatts. The \$97 million Advancing Clean Energy Schools program over three years, 2017–18, 2018–19 and 2019–20, will enable the installation of additional larger solar PV systems as well as energy efficiency initiatives such as LED lighting across Queensland's state schools to reduce energy costs.

Future opportunities – cont.

PLANNING

Opportunity 6

Focus of the Infrastructure Investment Program to deliver fit-for-purpose learning spaces to meet current and future teaching requirements.

Status update: Through investment planning the Department of Education will facilitate the timely renewal and maintenance of education and early childhood assets. Leveraging the school strategic infrastructure plans, early childhood care and education strategic investment framework and the asset life cycle assessments, the Department of Education will prioritise investment to deliver priority fit-for-purpose education and early childhood assets that meet the early childhood and curriculum needs of the local and school community.

Opportunity 7

Plan for the future sustainability of our education and training facilities through master planning in high growth Queensland communities.

Status update: Master planning currently focuses on seven urban precincts under the Department of Education's urban school strategy – in Brisbane's inner city and SEQ Priority Development Areas.

The Department of Education will identify other significant growth communities that will benefit from master planning to achieve medium/long-term growth to meet current and future demand.

The Department of Employment, Small Business and Training is developing regional infrastructure plans that will support anticipated growth and align with industry workforce development and other priority training and skills needs across Queensland's communities.

Opportunity 8

Work with local government, developers and other government agencies to collaboratively plan to meet the needs of growing and changing communities by delivering agile shared infrastructure solutions.

Status update: Community Hubs and Partnerships continues to work in partnership with the Department of Education on identified new school build projects to implement co-location and shared use opportunities to meet community need. For example, Yarrabilba State School and the family, children and community hub being built on the school site to open later in 2018 and Providence Ripley co-location primary and secondary schools to open in 2020.

Opportunity 9

Encourage alternative capital investment mechanisms to support growth and service demand pressures impacting on the education sector.

Status update: The Department of Education has actively engaged with the private sector to deliver new ways of meeting long-term growth demand for new schools. Through the use of public-private partnerships and design, construct and maintain partnerships, the Department of Education will continue to explore alternative capital investment mechanisms to deliver education services to local communities.

Opportunity 10

Partner with other education and training providers to meet the needs of communities through co-sharing or co-location of facilities.

Status update: The Community Hubs and Partnerships program is facilitating partnership opportunities with non-government education sectors, state government agencies, local governments and developers through the non-government education sector partnerships project. Partnerships being explored include co-location and facility sharing with a focus on growth areas such as Ripley, Yarrabilba and Greater Flagstone.

The Department of Employment, Small Business and Training continues to facilitate partnership opportunities for TAFE Queensland with other education and training providers. For example, the University of Sunshine Coast is co-located with TAFE Queensland at the Caboolture campus to strengthen nursing and health career pathways.

Digital



Secure, reliable and cost-effective digital infrastructure improves the lives of Queenslanders by connecting regions, communities and businesses to better service the digital economy.

The digital economy offers opportunities for all Queenslanders to benefit from productivity gains across the economy. Cross-pollination of our technology and infrastructure sectors is vital to identifying innovative solutions to infrastructure problems. Digital infrastructure provides enormous opportunity to create new, high-value industries.

While telecommunication networks are regulated by the Australian Government and delivered largely by the private sector, the Queensland Government plays a vital role in ensuring the state has access to world-class digital infrastructure.

Governments at all levels are increasingly adopting a ‘digital first’ approach to improve services and responsiveness. In a decentralised state such as Queensland, there is enormous potential to improve service delivery through optimised use of existing digital infrastructure and technology.

The Queensland Government continues to develop new ways for Queenslanders to simply and consistently access government services regardless of where they live.

Globally, investment in smart digital technologies is improving the coordination and efficiency of city operations, making cities safer and better connecting people. In Queensland, smart technologies are providing the opportunity to grow key industries, such as the smart tourism platform being deployed in central-west Queensland.

In sectors such as health and education, more reliable and accessible digital infrastructure is helping improve outcomes and reduce service delivery costs.

Key initiatives

Telecommunications for the regions

- ▶ This project is examining whether spare capacity in state-owned digital infrastructure assets can be leveraged for broader community and economic benefit in regional areas. One benefit would be access to more affordable capacity by service providers and smaller carriers. This would allow them to offer more competitive services in a wider range of locations.

Public Safety Regional Radio Communications

- ▶ The Queensland Government is providing additional funding of \$26.9 million in 2018–19 to progress the Public Safety Regional Radio Communications proposal. This proposal will ensure Queensland Fire and Emergency Services complies with Australian Communications and Media Authority requirements. It will also significantly improve the public safety radio network and see 96 per cent of the state’s population covered by a consolidated digital network.

Regional Internet of Things (RIoT) Program

- ▶ The Queensland Government’s \$650 million Advance Queensland initiative is developing new technology in regional Queensland. The RIoT Program is a joint Advance Queensland and Department of Housing and Public Works initiative which is developing new technology in regional Queensland. The program has been established to fund local projects helping local businesses, communities and councils to trial the use of connected devices on farms, in factories and communities.



Hologram interactive exhibition, Waltzing Matilda Centre, Winton



Adoption and use of digital technologies could contribute
\$140 B to \$250 B
to Australia's GDP by 2025

Source: The Digital Economy: Opening up the conversation, September 2017

In 2017, small businesses with advanced levels of digital engagement are

50%

more likely to be growing revenue

(relative to Australian small businesses with basic levels of digital engagement)

Source: Connected Small Businesses 2017, Deloitte, Access Economics



21.74 M

internet users

88%
penetration

Source: A snapshot of Australia's digital statistical indicators, Digital in 2018, Hootsuite



There was a
38.6%

increase in the volume of data downloaded by Australians in 2017

Source: Australian Bureau of Statistics

Queensland Mobile Black Spot Program:

144

new or upgraded mobile towers to be completed by the end of 2018

38

upcoming mobile base stations



In March 2018, NBN services were available to almost

1.3 M

premises in Queensland

Source: nbn Co

62.9 M

people visited **qld.gov.au** in 2016–17 (an increase of 53% from the previous year)

Source: One-Stop Shop Implementation Office

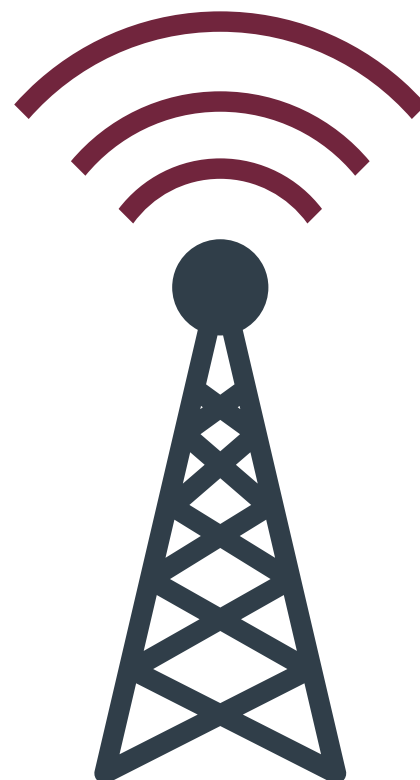


More than

500

Queensland Government services can be accessed via **qld.gov.au**

Source: One-Stop Shop Implementation Office



Sunshine Coast internet submarine cable

There are six undersea cables currently connecting Australia to the rest of the world. Five of these leave Australia via Sydney, while the sixth leaves via Perth. If there was a major fault in the Sydney cables, Australia would be exposed to the risk of major telecommunications disruptions with the rest of the world. To help mitigate this risk, the Queensland Government is providing \$15 million through the Jobs and Regional Growth Fund to support a digital infrastructure project initiated by the Sunshine Coast Council.

The project will lay a new international broadband cable on the ocean floor off the Sunshine Coast and create an additional international connection for Australia and the first for Queensland.

When complete, the new submarine cable will:

- ▶ reduce delay in digital signals to the rest of the world

- ▶ attract further investment across the state, for example fibre networks, data centres, head office relocations and computer research facilities
- ▶ provide greater state and national security through improved network redundancy.

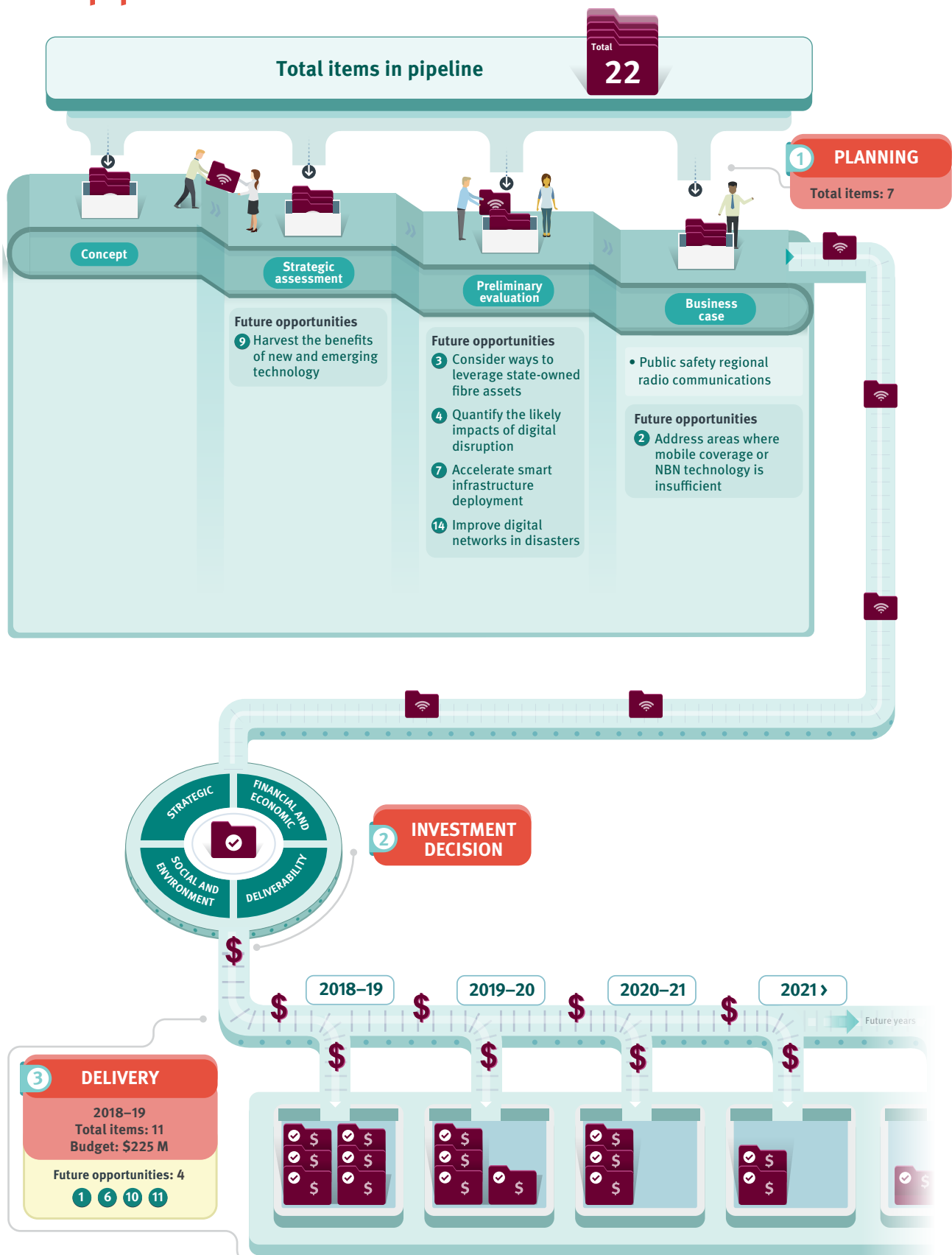
The project was included as a proposal raised through consultation in the SIP Part B 2016. A feasibility study prepared by the Sunshine Coast Council estimates that the project will create up to 864 jobs per annum with a potential economic boost of \$927 million to Queensland.

The submarine cable will provide a unique and direct telecommunications infrastructure link between Queensland and the Asia Pacific region opening up exciting direct economic benefits to the Sunshine Coast, SEQ and other regions of Queensland.



Utilising digital communication tools through Queensland Fire and Rescue Service

2018 pipeline



1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Council of the Queensland Institute of Medical Research scientific equipment	Ongoing	●			●		8.457			
Financial Assurance Framework Reform	1.500		●			1.100	0.400			
Implementation of online blue card application system	9.790		●				8.320	1.470		
Office of State Revenue Transformation Program	17.739		●			11.453	5.725	0.561		
Strategic Election Management Systems replacement project	6.306		●			3.004	3.302			
Statewide										
Health laboratory information system replacement	60.905		●			13.876	22.581	13.728	10.720	
Health information communications, technology and equipment	Ongoing		●				127.449			
Health information technology equipment	Ongoing		●				36.724			
Our Child – missing child interagency ICT system	2.620		●			1.271	1.349			
Queensland Ambulance Service information systems development	Ongoing		●				8.882			
TAFE Queensland one network and wi-fi upgrade	Ongoing		●				2.000			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Engage with the Australian Government and telecommunications providers to improve digital inclusion in rural and remote parts of Queensland, including optimum coverage of the National Broadband Network (NBN).

Status update: The Queensland Government has responded to the Australian Government's Joint Standing Committee on the National Broadband Network's Inquiry into the rollout of the NBN in rural and regional areas. The Queensland Government submitted the following key recommendations:

- ▶ request greater input into and visibility of the NBN rollout where the delivery of Queensland Government services is potentially impacted, particularly where critical public safety services are concerned
- ▶ encourage nbn Co to revert from the deployment of fibre-to-the-node (FttN) technologies to fixed line connections via fibre-to-the-premises (FtTP) or fibre-to-the-distribution point (FttDP) technologies
- ▶ encourage nbn Co to use Sky Muster satellite services as a last resort for remote sites across Queensland and consider opportunities to improve the level of service currently being delivered to customers
- ▶ encourage nbn Co to consider network charge reductions to reduce congestion and make connections to higher speed plans more affordable.

Opportunity 2

Identify opportunities to address areas where mobile coverage or NBN technology is insufficient to meet community needs, particularly in public buildings such as schools, health facilities and libraries.

Status update: The Digital Infrastructure Plan will identify ways in which the Queensland Government can partner with other levels of government and telecommunications providers to improve mobile and NBN coverage. The Queensland Government's support and co-funding of the Australian Government's Mobile Black Spot Program is an example of this approach.

Opportunity 3

Consider ways to leverage state-owned fibre assets for broader community and economic benefit.

Status update: The Queensland Government owns a network of digital infrastructure assets throughout Queensland, including towers, optical fibre and telecommunications equipment. The government is conducting a due diligence study to examine whether spare capacity assets can be leveraged for broader community and economic benefit.

Opportunity 4

Quantify the likely impacts of digital disruption on future demand for government infrastructure and services in collaboration with academia.

Status update: The Queensland Government is working with the University of Southern Queensland to identify the benefits of digital infrastructure and services through a longitudinal study of communities in central west Queensland.

Opportunity 5

Identify opportunities to increase teleworking in the public and private sectors as a means of reducing congestion on transport networks in Queensland's cities.

Status update: The Department of Housing and Public Works has established three distributed work centres outside the Brisbane CBD (at the Gold Coast, Ipswich and Sunshine Coast) enabling government employees to work remotely for up to three days per week.

This opportunity is addressed through future opportunity 9.

Opportunity 6

Develop more responsive and effective emergency services through improved technology, coverage, security and interoperability for public safety communications in Queensland.

Status update: Queensland is participating in a Council of Australian Governments project to progress the development of a National Public Safety Mobile Broadband capability which adds additional features beyond current commercial services.

Future opportunities – cont.

PLANNING

Opportunity 7

Accelerate smart infrastructure deployment with sensor and wi-fi networks to improve efficiency, safety and liveability, with real-time information to enable better management and use of infrastructure.

Status update: The Queensland Government is encouraging the adoption of smart technologies in industry applications by supporting a number of pilot projects in collaboration with local government, industry and research organisations. For example, on the Darling Downs a pilot project is demonstrating the benefits of the Internet of Things to the agricultural and natural resource management sectors.

Opportunity 8

Improve infrastructure planning and management by using big data, open data, data analytics and machine learning.

Status update: This opportunity will be progressed through the Digital Infrastructure Plan.

Opportunity 9

Identify opportunities and harvest the benefits of new and emerging technology digital disruptions that may reduce the demand for future infrastructure, for example, autonomous vehicles, solar battery storage and telehealth.

Status update: This opportunity will be progressed through the Digital Infrastructure Plan.

Opportunity 10

Leverage the Queensland Government's digital purchasing power to improve digital outcomes for the state.

Status update: The Queensland Government is undertaking an initiative to analyse and consolidate government telecommunications expenditure in each region to harness government's buying power and to stimulate competition between providers. Pilot sites have been established in a number of centres including Roma and Maroochydore. Project planning is also in progress to establish connections in a number of other major regional centres.

Opportunity 11

Identify opportunities to leverage existing and proposed connectivity into Queensland's schools for broader community and government benefit.

Status update: The Queensland Government's Broadband Upgrade Project is delivering 'city standard' internet connections to students across the state, increasing the number of optical fibre-connected schools from 542 to almost 1000.

Opportunity 12

Integrate digital networks and sensors into all new infrastructure projects as standard.

Status update: The Queensland Government is increasingly raising awareness across government agencies and local governments of the need to think about digital infrastructure requirements at the project planning stage.

Opportunity 13

Develop a plan to retrofit brownfield infrastructure with digital networks and sensors, focusing on key pieces of infrastructure.

Status update: This opportunity will be progressed through the Digital Infrastructure Plan.

Opportunity 14

Improve the reliability, availability, and maintainability of Queensland's digital networks in the face of disasters and other extreme events.

Status update: The Queensland Government has identified areas where more focus could be placed to help harden Queensland's digital networks against disruption during natural disasters such as by providing improved backup power solutions to critical mobile towers and public safety communications assets.

Digital connectivity for rural and remote Queensland

The Queensland Government, in collaboration with local governments, the Australian Government and associated service providers, is committed to improving access to high-speed internet and data services in remote parts of Queensland, closing the digital divide between urban and remote, regional and rural areas.

Queensland's Outback Telegraph – Queensland's central west public wi-fi network

Councils in Central-west Queensland are joining forces to create a single public wi-fi network that can be accessed from towns across seven local government areas, covering an area equal to one-fifth of the state. This wi-fi network will bring free internet access to travellers, allowing visitors to browse the internet, research locations and post experiences of their travels. The Remote Area Planning and Development Board is looking to extend the Outback Telegraph from the pilot site at Winton to the remainder of the central west in the near future.

Broadband upgrade project – delivering 'city standard' internet connections to students across the state

A \$137 million partnership with Telstra will increase the number of optical fibre-connected schools from 542 to almost 1000 across the state. Installation of 144 kilometres of optical fibre cable has already been completed to connect Aurukun and Kowanyama in Far North Queensland. This has allowed the mobile towers in both towns to be upgraded from 3G to 4G and the delivery of ADSL2 broadband services providing improvements to mobile services and improved digital connectivity for students.

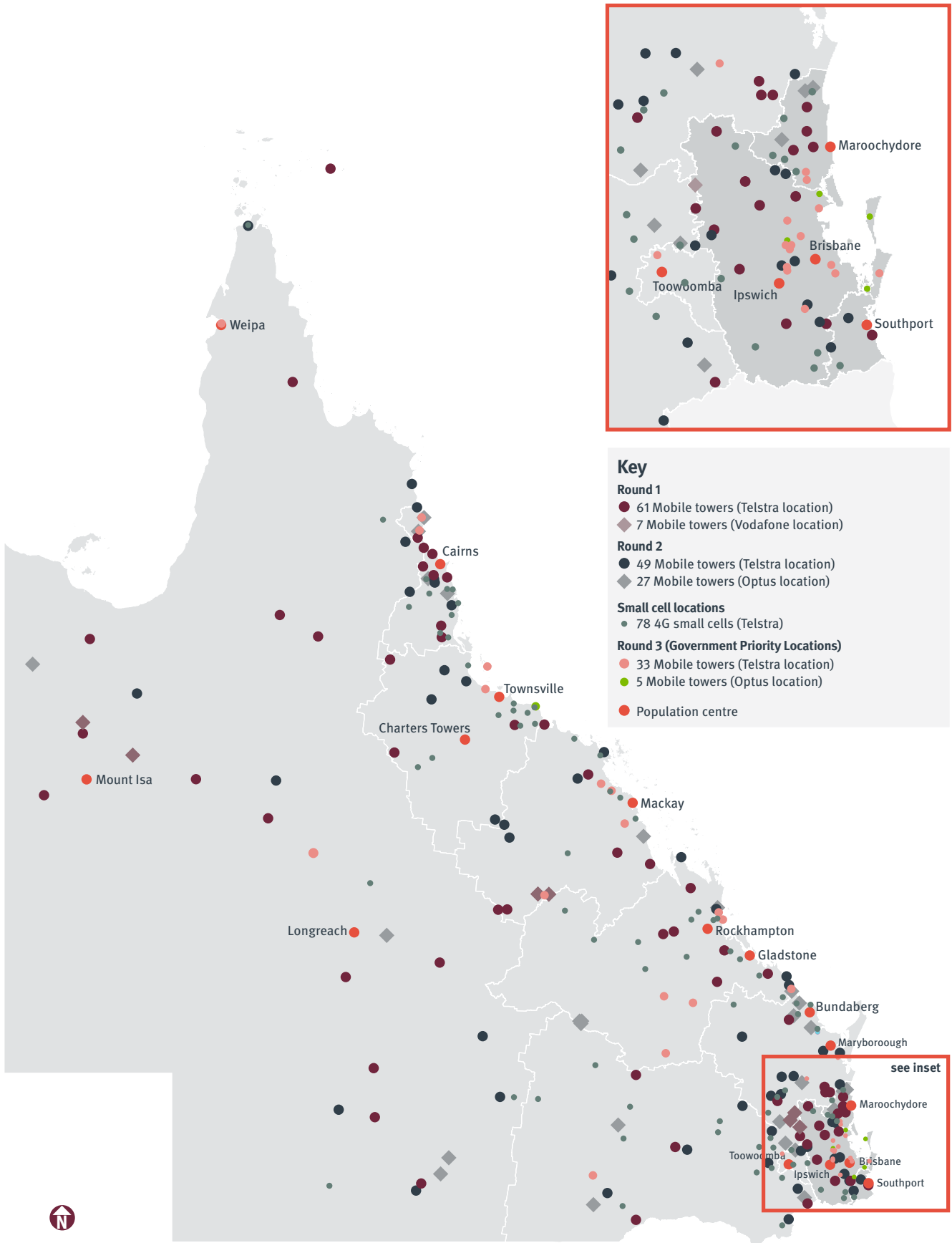
Mobile Black Spot Program in regional Queensland

More than \$23 million has been invested by the Queensland Government in the Australian Government's Mobile Black Spot Program. This investment will see significant improvements in mobile coverage in regional and remote areas of Queensland, with 144 new or upgraded mobile towers to be completed by the end of 2018. In addition, Telstra will install 78 4G small cells in sites across the state to boost coverage, while the Australian Government recently committed to co-funding 38 additional mobile base stations in Queensland. A map of the program locations is shown in on page 128.



Mobile phone tower, Queensland

Mobile Black Spot Program locations



Note: Funding for the Mobile Black Spot Program continues to be allocated by the Queensland Government, co-funded with the Australian Government, but does not appear in the SIP 1–4 year program or 2018–19 Budget Paper 3.

Justice and public safety



Bundamba fire station upgrade

State Infrastructure Plan Part B: Program – 2018 update



Justice and public safety

The safety and wellbeing of all Queenslanders is a key priority for the Queensland Government. Infrastructure supports fair and timely justice services, secure correctional facilities and essential police, fire and emergency response and disaster management services.

A growing population and increased frequency and severity of natural disasters influence demand for fire and emergency services to both protect and aid in the recovery of Queensland communities. Similarly, crime, anti-social behaviour and increasing rates of social issues increase the pressure on infrastructure, such as police, courts, prisons and youth detention centres.

The number of prisoners in correctional centres continues to increase, driving the need for additional infrastructure. This growth is further exacerbated by a changing prisoner profile, an increase in prisoners with complex mental health and substance abuse needs, and an increase in the number of prisoners with disabilities that require special purpose accommodation.

There have been significant increases in the offender population under supervision of probation and parole—which has the highest offender-to-operational staff ratios in Australia. Under the Sofronoff Review reforms, additional frontline staff will be recruited over the next five years, driving the need for community-based accommodation.

The changing profile of young people in youth detention facilities highlights the need to provide appropriate infrastructure, while also providing programs and services to address complex needs.

It is vital these challenges are also tackled through prevention and early intervention strategies, along with investment in digital technology, to help reduce pressure on, and efficiently use, existing infrastructure.

Key initiatives

Capricornia Correctional Centre

- ▶ \$241 million expansion will deliver an additional 348 cells and additional facilities by 2020.

Borrallon Training and Correctional Centre

- ▶ Staged recommissioning is underway to modernise 244 secure cells and will be completed mid-2018.

Probation and Parole Offices

- ▶ \$7 million over three years has been allocated to expand infrastructure to assist with increased demand, such as at the Logan Central Probation and Parole Office.

QLiTE enabled mobile devices

- ▶ Deploy an additional 1400 QLiTE devices during 2018–19 to increase efficiency of police officers in the field and improve officer safety.

Counter-Terrorism and Community Safety Centre

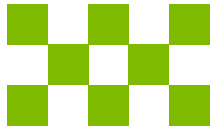
- ▶ \$46.7 million training facility is being designed for the 140-hectare Counter-Terrorism Centre at Wacol in Brisbane. It will include indoor firearms ranges, a scenario village and specialist training areas to increase capability in managing terrorism and other critical incidents.

Fire and Emergency Services

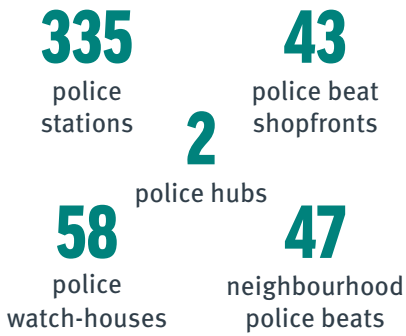
- ▶ Pimpama Fire Station with a Breathing Apparatus (B/A) HAZMAT facility (preliminary planning phase)
- ▶ Yarrabilba Fire Station – stage 1 (preliminary planning phase)
- ▶ Maryborough Regional Office and Fire and Rescue Complex with a B/A HAZMAT facility (preliminary planning phase)



Petrie Fire Station



Queensland Police Service



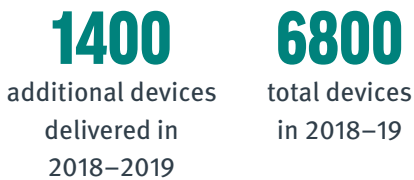
Correctional services



Queensland Fire and Emergency Services



QLite devices



Courthouses



Detention centres



Between June 2015 and February 2018 Queensland experienced a

20% increase
in prisoner numbers
(7292 to 8801 prisoners)



In February 2018, high security centres were operating at:



131%
built cell capacity for male prisoners

152%
built cell capacity for female prisoners



Cells delivered by mid-2018:

244

Cells to be delivered by 2020–2021:

348





Audio visual technology improves court processes

Audio visual technology is being rolled out to courthouses across the state to enable more efficient delivery of justice services in the regions.

The technology includes a range of capabilities such as video and telephone conferencing, electronic evidence presentation, pre-recording of witness testimony, hearing assistance, sound amplification and recording of audio from court hearings. Over 250 videoconferencing units have so far been installed at 85 locations across Queensland.

Benefits from the deployment of this technology include condensing protracted hearings by up to 20 per cent and reducing risk and cost associated with prisoner transfers.

The program continues to explore opportunities to expand the use of video technologies within the justice sector, particularly the pre-recording of evidence for vulnerable witnesses and the management of electronic evidence.

Kingaroy Courthouse refurbishment

The Kingaroy Courthouse was recently reopened in February 2018 after an extensive refurbishment program to modernise the building. The original courthouse was constructed in 1966.

The works included a full internal and external refurbishment and security upgrades. The \$5.3 million investment brings greater access to justice for the community within a safe and fit-for-purpose environment.

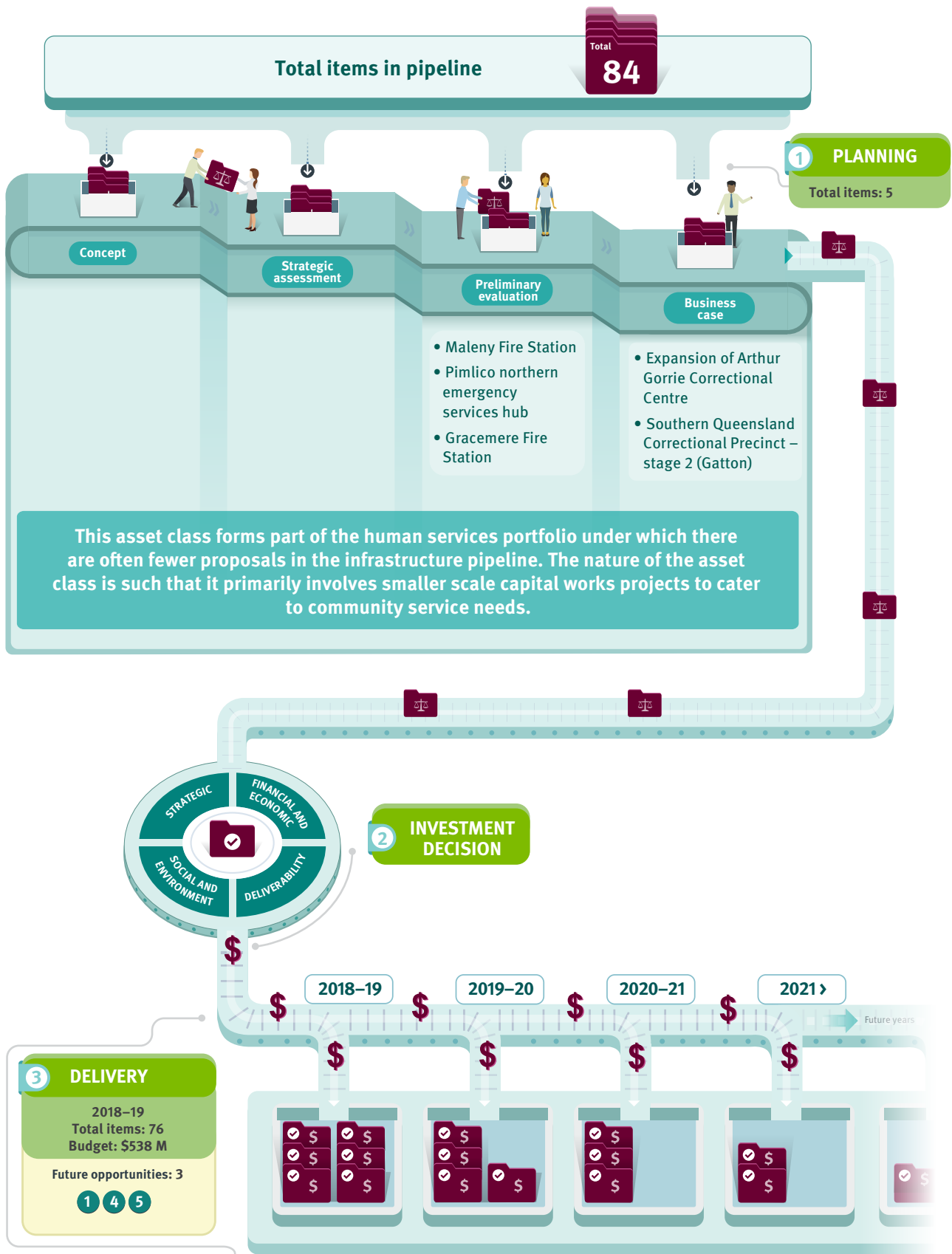


Kingaroy Courthouse



Nanango Police Station

2018 pipeline





1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Beenleigh Courthouse upgrade	11.000		●			0.300	3.700	7.000		
Borallon Training and Correctional Centre	126.900		●			114.233	3.667	9.000		
Brisbane Women's Correctional Centre high-security expansion for women	16.000		●			0.502	10.498	5.000		
Brisbane Women's Correctional Centre enhancement	6.000		●			4.520	1.480			
Brisbane Youth Detention Centre security management system upgrade	32.809		●			18.953	7.206	6.650		
Crime and Corruption Commission infrastructure upgrades	6.439		●				6.439			
Public Trustee infrastructure upgrades	Ongoing				●		13.334			
Woodford Correctional Centre	8.011		●			4.542	3.469			
Fire and Emergency Services										
Bracken Ridge replacement permanent station	6.000		●				1.500	4.500		
Chandler replacement permanent station	4.000		●				1.000	3.000		
Esk replacement auxiliary station	1.800		●				0.800	1.000		
Loganlea permanent station upgrade	0.500		●				0.500			
Maleny emergency services facility	2.500		●				0.050	1.000	1.450	
Mount Ommaney Station upgrade	1.500		●			0.050	1.450			
Pimpama new permanent station	3.000		●				0.500	2.500		
Rathdowney replacement auxiliary station	1.900		●			0.200	1.700			
West Logan permanent station upgrade	0.500		●				0.500			
Yarrabilba replacement permanent station	4.250		●				0.250	1.000	3.000	
Police										
Arundel new facility	11.500		●				2.400	9.100		
Beaudesert Station replacement	5.890		●			0.390	0.100	5.400		
Coolool Station replacement	2.700		●				0.100	2.600		
Kilcoy Station replacement	2.100		●			0.752	1.348			

Justice and public safety

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018-19	Indicative		
								2019-20	2020-21 to 2021-22	Beyond
Logan Village Neighbourhood Police Beat upgrade	0.400		●			0.400				
Nambour Station replacement	9.040		●		0.140	0.100	8.800			
New Caboolture Station and District Headquarters	15.800		●		4.113	11.687				
Old Caboolture Station and Watch-house refurbishment	6.553		●		0.143	0.100	6.310			
Wacol Counter-Terrorism and Community Training Centre	46.700		●		1.400	10.600	31.470	3.230		
Wacol heritage building refurbishment	5.860		●		0.169	5.200	0.491			
Wacol warehouse facility	26.000		●		1.050	19.280	5.670			
West End station upgrade	4.300		●		0.050	3.740	0.510			
Regional Queensland										
Capricornia Correctional Centre expansion	241.000		●		13.403	107.000	92.000	28.597		
Rockhampton Courthouse upgrade	12.000		●		0.464	6.536	5.000			
Townsville Courthouse upgrade	9.000		●		0.350	3.650	5.000			
Fire and Emergency Services										
Cairns communications centre upgrade	2.500		●			2.000	0.500			
Charleville area office refurbishment	1.200		●		0.700	0.500				
Charlton regional headquarters and firecom infrastructure	7.000		●			2.000	5.000			
Charlton replacement permanent station	3.600		●			1.000	2.100	0.500		
Childers replacement auxiliary station	3.731		●		3.372	0.359				
Dirranbandi auxiliary station upgrade	0.800		●		0.300	0.500				
El Arish replacement auxiliary station	1.800		●			0.900	0.900			
Gracemere replacement auxiliary station	2.100		●			0.100	2.000			
Horn Island collocated rural fire and SES facility upgrade	2.800		●		0.690	2.110				
Howard rural fire station and SES facility co-located with police station	4.762		●		4.320	0.442				
Kilkivan Auxiliary Station replacement	1.800		●			0.900	0.900			
Mount Isa replacement combined area office	2.500		●		0.500	2.000				



Justice and public safety

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018-19	Indicative		
								2019-20	2020-21 to 2021-22	Beyond
Regional Queensland										
Fire and Emergency Services										
Mount Isa rural fire and SES facility upgrade	4.000		●			0.100		3.900		
Richmond replacement auxiliary station	2.200		●			0.987		1.213		
Rockhampton permanent station upgrade and communications centre	4.553		●			3.753		0.800		
Weipa Emergency and Disaster Centre	1.200		●			0.400		0.400	0.400	
Wooroolin replacement auxiliary station	1.400		●			0.800		0.600		
Yarraman replacement auxiliary station	1.500		●			0.800		0.700		
Police										
Atherton station upgrade	6.190		●			0.190	0.100	0.200		5.700
Aurukun station and watchhouse upgrade	6.700		●			0.200	0.100	6.400		
Bowen Station and Watch-house replacement	8.305		●			7.914	0.391			
Howard Station replacement co-located with rural fire station	3.901		●			3.568	0.333			
Mount Morgan Station replacement	2.100		●			0.100	0.100	1.900		
New Highfields Station	2.770		●			0.129	0.100	2.541		
Porpuraaw replacement station and watchhouse	8.200		●			0.230	0.100	7.870		
Statewide										
Legal Aid Queensland infrastructure upgrades	3.436		●			0.320		3.116		
Ongoing programs (Public Safety Business Agency)	Ongoing		●					7.721		
Ongoing programs (Department of Justice and Attorney-General)	Ongoing		●					12.860		
Ongoing programs (Queensland Corrective Services)	Ongoing		●					18.566		
Perimeter security upgrades (stage 2)	76.579		●			53.243	20.536	2.800		
Prison infrastructure	14.436		●			11.900	2.536			
Public Trustee building improvements	Ongoing		●		●			6.717		
Rotary-wing aircraft replacement	43.094		●			11.277		31.817		

Justice and public safety

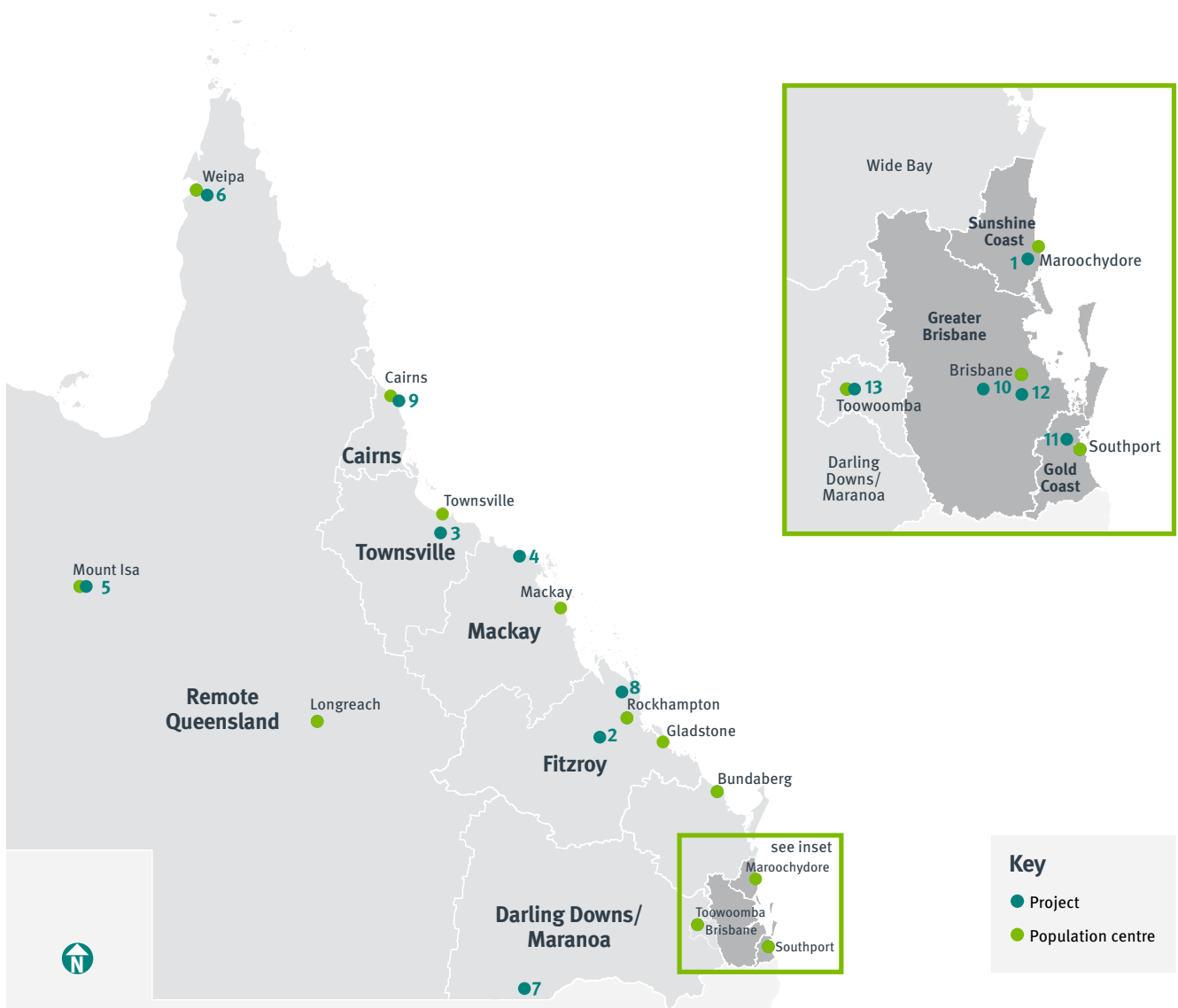
Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Statewide										
Statewide courthouse infrastructure upgrades	Ongoing		●							9.446
Statewide Public Trustee infrastructure upgrades	Ongoing				●					1.610
Transition of 17 year olds to the youth justice system	25.986		●			6.999				18.987
Youth Justice facilities	Ongoing		●							5.158
Fire and Emergency Services										
Other property, plant and equipment (Queensland Fire and Emergency Services)	Ongoing		●							58.969
SES on-boarding to the Government Wireless Network	0.500		●				0.250	0.250		
Statewide minor works	Ongoing		●							4.600
Police										
Mobile capability	Ongoing		●							3.920
Ongoing programs (Queensland Police Service)	Ongoing		●							79.891
Statewide minor works	Ongoing		●							3.350

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.



Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Maleny Fire Station	4	Bowen Station and Watch-house replacement
2	Gracemere Fire Station	5	Mount Isa rural fire and SES facility upgrade
3	Pimlico northern emergency services hub	6	Weipa Emergency and Disaster Centre
		7	Dirranbandi auxiliary station upgrade
		8	Capricornia Correctional Centre expansion
		9	Cairns communications centre
		10	Brisbane Youth Detention Centre security management system upgrade
		11	Arundel new facility
		12	Yarrabilba replacement permanent station
		13	Charlton regional headquarters and firecom infrastructure



Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Review and reshape the service delivery model at some courthouses in regional and remote communities, including through improved multi-agency service delivery under one roof.

Status update: In 2018, the Department of Justice and Attorney-General and the Department of Transport and Main Roads will complete their four-year collaboration to improve access to a range of Queensland Government services including transport services, in 31 remote, regional and rural communities. A range of minor works were completed by the Department of Transport and Main Roads to facilitate the provision of licensing services including improvements to customer service counters.

Opportunity 2

Continue to optimise court utilisation through technology.

Status update: In 2018–19, the audio and/or video systems in 44 courtrooms and 13 videoconferencing suites in correctional centres will be upgraded. E-lodgement capability exists in a limited form and presents a significant opportunity to optimise court utilisation by enabling electronic court files.

Opportunity 3

Identify and implement a strategy to manage peak prisoner numbers.

Status update: Queensland Corrective Services is continuing to provide advice on the strategies required to manage the growing prisoner population.

Opportunity 4

Manage demand and improve efficiency by implementing integrated service delivery models to respond to increasing demand.

Status update: Queensland Corrective Services has implemented an Adult Reintegration Program as part of the Aurukun Four Point Plan which is delivered in collaboration with Youth Justice's Youth Reintegration Program.

The program is a specialised, location-based re-entry support model that aims to minimise disruption to Aurukun when offenders return to the community and reduce the likelihood of their return to custody.

Opportunity 5

Explore opportunities for co-location.

Status update: The Queensland Drug and Alcohol Court has commenced co-location on Level 4 of the Brisbane Magistrates Court housing representatives from Queensland Police Service, Queensland Corrective Services, Queensland Health and Department of Justice and Attorney General. A significant refurbishment of the floor was undertaken in 2017 to accommodate these staff.

Opportunity 6

Rationalise, share or repurpose the current footprint of more than 80 court registry sites.

Status update: The Regional Services Outlet partnership between the Department of Justice and Attorney-General and the Department of Transport and Main Roads has delivered improved access to government services in 31 remote, regional and rural communities and consolidated formerly separate service outlets.

Updated courthouse condition assessments will complement existing courts audit data in targeting improvements to staff and customer amenity within courthouse facilities.

Opportunity 7

Support integrated service delivery, through a range of communication channels, including new technology and alternate contact models.

Status: In response to the Queensland Parole System Review, Queensland Corrective Services will be establishing Parole and Assessment Units and increasing the use of videoconferencing during the parole application process to support integrated service delivery.

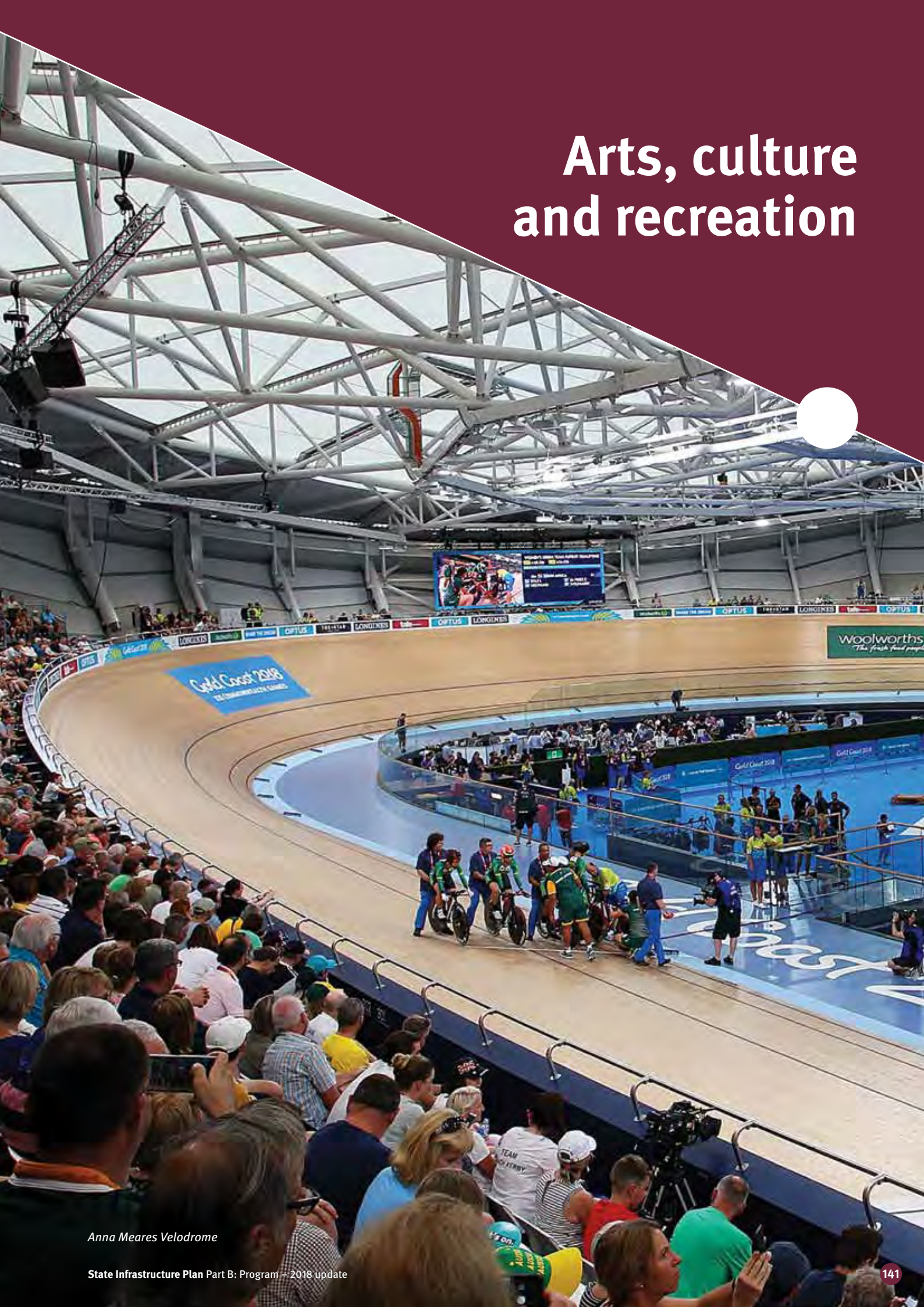


Justice and public safety



Charleville Fire and Rescue Station

Arts, culture and recreation





Arts, culture and recreation

Arts, culture and recreation play an important role in bringing Queenslanders together. Engaging with artistic, sporting and recreational activities builds a sense of community and helps to enrich the character and culture of the state.

A vibrant arts and cultural sector, easy access to world-class sports and recreational opportunities, and Queensland's stunning national parks and World Heritage areas are valuable components of strong, liveable communities and help to improve health, social connections and civic pride.

Investment in the upgrade and expansion of arts and cultural infrastructure is essential to revitalise urban centres and drive cultural tourism. The government continues to explore funding and co-location partnership opportunities between agencies and with other levels of government to maximise use of both arts and sports facilities.

Sport and recreation facilities, such as stadiums, recreation centres and sport centres cater to different community needs and offer opportunities for the public and elite athletes to achieve the highest standard in their chosen pursuit. Multi-use sports infrastructure programs are being rolled out across Queensland, delivering facilities that are favoured by sporting groups and athletes for their accessibility and functionality such as the Toowoomba Sports Ground.

Queensland's parks and forests support nature-based and eco-tourism opportunities across the state. Infrastructure and facilities, including the extensive track and trail network, make our national parks, state forests and marine parks the biggest resource of nature-based and eco-tourism recreational opportunities for Queenslanders and visitors.

The infrastructure supporting these outstanding experiences must continue to be high-quality and resilient to severe weather.

Key initiatives

GC2018 infrastructure legacy

- ▶ In preparation for the Gold Coast 2018 Commonwealth Games, three new competition venues were delivered along with major upgrades to seven facilities that now provide legacy for Queensland.
- ▶ \$550 million Health and Knowledge Precinct legacy project. A 200-hectare high-tech hub located in Athletes' Village and with the Gold Coast University Hospital and Griffith University.

Outback Tourism Infrastructure Fund

- ▶ \$10 million investment in a series of projects for western Queensland to support the outback's growing tourism sector, including \$2.2 million over two years to refurbish the Australian Workers Heritage Centre in Barcaldine.

New Performing Arts Venue, Brisbane

- ▶ The government is investing \$125 million toward construction of a new \$150 million 1500–1700 seat state-of-the-art theatre on the Playhouse Green site at Queensland Performing Arts Centre.

Thomas Dixon Centre

- ▶ \$14 million investment towards Queensland Ballet's Thomas Dixon Centre to transform it into a centre of artistic excellence.

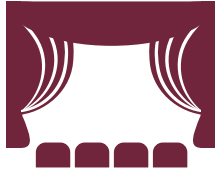
New art gallery in Rockhampton

- ▶ \$10 million to support Rockhampton Regional Council's new art gallery to provide more exhibition and public programming space and storage (subject to Rockhampton Regional Council securing \$10 million in federal funding).



Outback Festival, Winton (image courtesy of Tourism and Events Queensland)

Arts, culture and recreation



6.5 M

visits to the Cultural Centre South Bank in 2017–18



14

Indigenous Arts centres

1.21 M

Tickets sold to the 2018 Gold Coast Commonwealth Games



Stadiums Queensland hosted

421

major events

3.9 M+

patrons at 9 venues



1 M+

patrons attended concerts

Queensland recreation centres hosted more than

93,180

participants

1960

coast camps

347,446

hours of instructor-led activity

(from 1 July 2017 to 30 June 2018)

Queensland Parks and Wildlife Service manages



1.34 M

overnight camper stays hosted in national parks and forests per annum



72,000 km²

of state marine parks



562

bookable camping areas



\$4.43 B

approximate direct spend by tourists visiting national parks



1043

parks and forests across 13 million hectares



234

day use sites



Theatre upgrade delivers enhanced audience experience

The Queensland Performing Arts Centre's Cremorne Theatre underwent a \$2.3 million upgrade in 2017 – the first in its 32-year history. The refurbishment of the theatre delivers on the Queensland Government's commitment to invest in arts and cultural infrastructure while also supporting the growth of the state's arts sector. Upgrades to the theatre provide performers and patrons with an enhanced theatre experience with the venue able to host an expanded range of productions.

The Cremorne Theatre refurbishments, included a variable height and depth stage, production and architectural dimmers and lighting systems,

improved acoustics and a new retractable seating system which provides improved sightlines to the stage. Theatre staging can now be transformed and adapted for different productions such as cabaret performances and theatre-in-the-round.

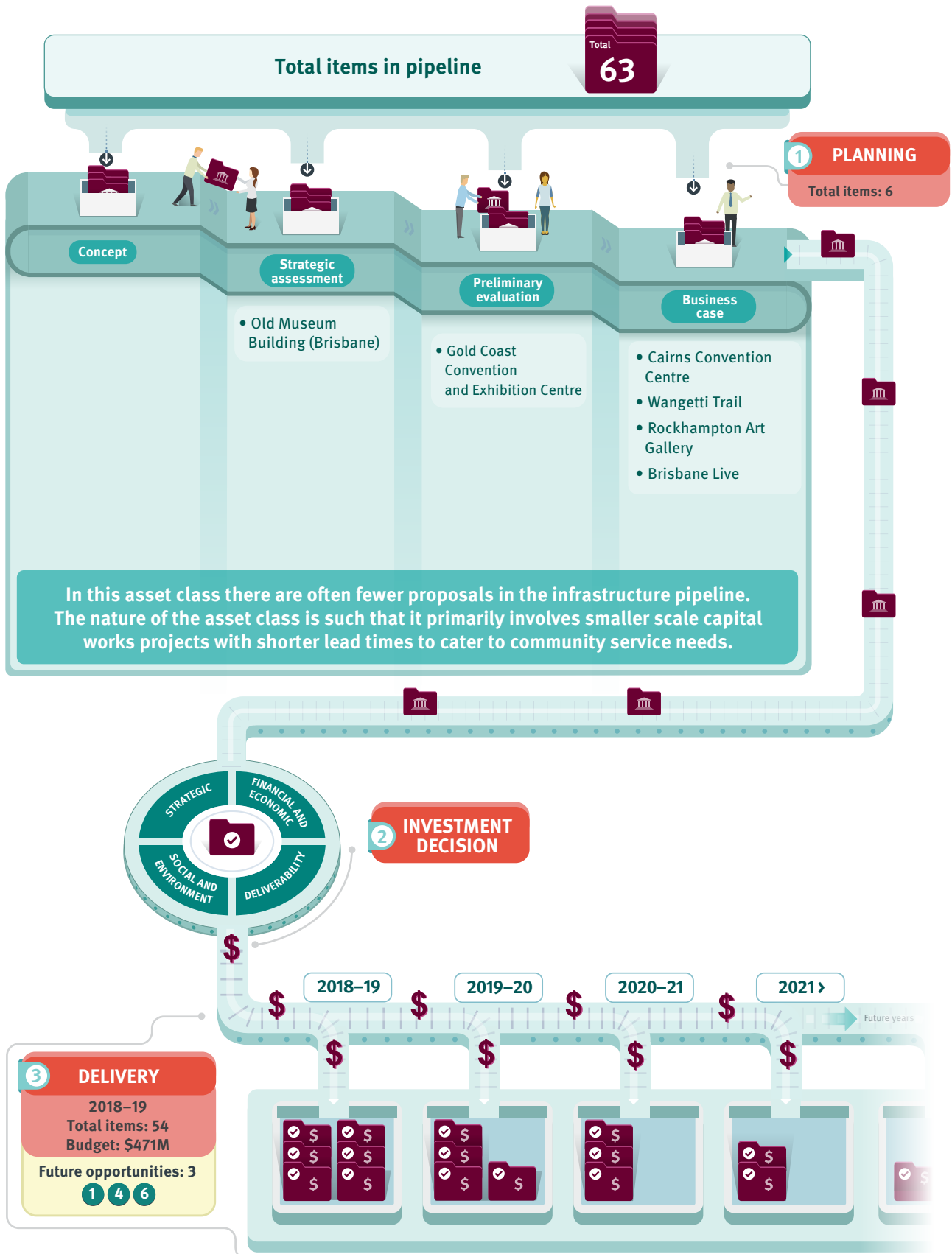
Arts Queensland worked to ensure the Cremorne Theatre refurbishment was consistent with the Queensland Cultural Centre's heritage listing and the new Conservation Management Plan for the cultural precinct.



Queensland Performing Arts Centre's Cremorne Theatre

Arts, culture and recreation

2018 pipeline





1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Bille Brown Studio Upgrade (Queensland Theatre Company)	2.000		●		●	1.700	0.300			
Boggo Road Precinct redevelopment	42.067		●		●	39.191	1.876	1.000		
Cultural Centre critical infrastructure works	34.606		●			18.700	10.584	5.322		
Cultural Centre future energy efficiency	9.000		●				1.800	3.150	4.050	
D'Aguiar National Park	3.000		●			0.100	1.400	1.500		
Glasshouse Mountain National Park	3.030		●			0.920	1.610	0.500		
National Parks – North Stradbroke Island upgrades	Ongoing		●				2.450			
Nerang mountain bike trails	2.741	●	●			2.641	0.100			
New performing arts venue at Queensland Performing Arts Centre ³³	150.000		●		●		5.000	50.000	95.000	
Noosa National Park	2.240		●			0.505	1.735			
Queensland Art Gallery acquisition of art work	Ongoing				●		1.750			
Queensland Art Gallery ongoing programs	Ongoing		●				0.300			
Queensland Maritime Museum	0.308		●			0.158	0.065	0.085		
Queensland Museum collection storage facilities	0.318		●				0.318			
Queensland Museum collection storage facilities upgrade	2.300		●			1.700	0.600			
Queensland Museum ongoing programs	Ongoing		●				0.754			
Queensland Museum permanent galleries	1.200		●				1.200			
Queensland Performing Arts Trust ongoing programs	Ongoing				●		1.000			
Queensland State Netball Centre	44.000	●	●			28.409	15.591			
Roma Street Parklands	Ongoing		●				1.681			
Screen production facility	1.015		●				1.015			
South Bank Corporation ongoing programs	Ongoing		●				12.416			
South Bank Corporation various projects	17.095		●			5.380	11.715			
Thomas Dixon Centre refurbishment (Queensland Ballet)	13.500		●				9.500	4.000		

³³ 2020–21 to 2021–22 figure includes \$25 million from own source revenue which does not appear the 2018–19 Budget Paper 3.

Arts, culture and recreation

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Regional Queensland										
Underwood Sports Park	9.110		●			9.110				
University of Sunshine Coast Stadium	7.000		●			7.000				
Woodfordia infrastructure upgrade	2.000		●	●	●	1.000	1.000			
Zillmere Basketball	5.500		●				2.500	3.000		
Finalisation of Commonwealth Games projects	233.379	●	●	●		230.159	3.220			
Australian Workers Heritage Centre and Wanpa-rda Matilda Outback Education Centre	2.200		●				2.200			
Cairns Performing Arts Centre	15.000	●	●	●		10.000	5.000			
Great Barrier Reef Island Rejuvenation Package	16.500		●				10.000	6.500		
Great Keppel Island recovery package	23.350		●				5.770	12.410	5.170	
Improving tourism and recreation use of the Great Barrier Reef – moorings	2.375		●			1.820	0.555			
Mackay Tourism Visitor Information Centre	1.300		●	●		0.887	0.413			
Mon Repos Turtle Centre redevelopment	17.360		●			3.070	13.465	0.825		
Mt Inkerman Nature Tourism Development	0.541		●	●		0.017	0.524			
National Parks major vessel replacement – Reef Heron	6.009	●				0.759	5.250			
North Queensland Stadium	248.900	●	●		●	46.091	120.000	81.000	1.809	
Regional Tourism Infrastructure and Experience Development Program	39.600		●				12.400	12.400	14.800	
Whitsunday Islands National Park	12.143	●	●			1.113	7.530	3.500		
Statewide										
Arts Infrastructure Investment Fund	15.500		●			1.350	6.650	4.000	3.500	
Female Facilities Program	15.000		●				15.000			
Get Playing Plus	60.580		●			40.304	17.276	3.000		
Get Playing Rounds 4–7	53.850		●			29.245	16.400	8.205		
Queensland Recreation Centres, Sports Grounds and Sport Houses Capital Works	Ongoing		●				4.122			
Racing Infrastructure Fund	120.217		●			18.744	51.431	8.903	18.741	22.398



Arts, culture and recreation

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
Statewide										
Safe, secure sporting and entertainment facilities	8.300		●			0.300	8.000			
Sport and recreation grant funding boost	10.432		●				7.982	2.450		
Sport and recreation various capital grants	7.352		●			0.726	3.626	1.000	2.000	
Stadiums Queensland capital works	Ongoing		●				12.726			
Statewide National Park Infrastructure upgrades	Ongoing	●	●		●		20.325			
Ongoing programs	Ongoing		●				12.102			
Other property, plant and equipment	7.931		●			3.000	4.931			

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Selected pipeline and 1–4 year program highlights

#	PIPELINE ITEMS IN PLANNING	#	1–4 YEAR PROGRAM
1	Wangetti Trail	5	National Parks major vessel replacement – Reef Heron
2	Rockhampton Art Gallery	6	Mt Inkerman Nature Tourism Development
3	Cairns Convention Centre	7	Mackay Tourism Visitor Information Centre
4	Gold Coast Convention and Exhibition Centre	8	Underwood Sports Park
		9	Noosa National Park
		10	Thomas Dixon Centre refurbishment (Queensland Ballet)
		11	Whitsunday Islands National Park
		12	North Queensland Stadium





Revitalising national parks

People from all over the world come to Queensland to camp, climb and hike through our beautiful national parks, with the number of visits exceeding 58 million each year. The Revitalising National Parks Program is investing \$35 million in Queensland national parks.

This program will rejuvenate key visitor and tourism destinations and other critical infrastructure in our most popular national parks. Places such as the Daintree, the Gondwana World Heritage Area which includes Lamington and Springbrook, Noosa and the Glasshouse Mountains are all major tourism drawcards generating income and jobs for regions. Capital works include upgrades of day use areas, infrastructure, boardwalks, lookouts, camping areas, walking tracks and visitor facilities.

The program will also support the recovery of national parks affected by Tropical Cyclone Debbie with priority funding for parks in the Whitsunday Islands, which are recognised as one of the world's leading tropical island and marine leisure holiday destinations.

As part of the Whitsunday Island project, the Queensland Parks and Wildlife Service will create a new iconic walk and upgrade and expand the Whitehaven Beach visitor and camping facilities. The new 20-kilometre multi-day walk will connect Whitehaven Beach with Whitsunday Craig and Tongue Point and incorporate spectacular views. This will complement the \$2 million in joint Australian/Queensland government tourism recovery funding awarded for the upgrade and expansion of the Hill Inlet Lookout and improved access at Tongue Point.



Whitehaven Beach, Whitsundays

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Ensure infrastructure delivered for the Gold Coast 2018 Commonwealth Games creates positive and lasting benefits.

Status update: The Gold Coast 2018 Commonwealth Games were held in April 2018 utilising the venue infrastructure delivered for this event. The venues will continue to be used for major national and international sporting events following the completion of the Games. The Athletes' Village will form part of the legacy health and knowledge precinct with Gold Coast University Hospital and Griffith University.

Opportunity 2

Develop a priority order for the investment in cultural facilities.

Status update: Arts Queensland has continued to develop the Infrastructure Investment Prioritisation Framework to identify projects across the arts portfolio and prioritise based on agreed assessment criteria.

The fund has committed to three projects – the Centre of Contemporary Arts Cairns, the Judith Wright Centre of Contemporary Arts and Billie Brown Theatre in West End. A number of projects are being prioritised for future years through the framework.

Opportunity 3

Implement on-site and off-site storage strategies.

Status update: Arts Queensland has completed the expansion to the Queensland Art Gallery by adding a mezzanine floor to the collection storage area. The mezzanine has modernised and expanded the collection storage space which increased storage capacity by nearly a third. Arts Queensland has also completed the short-term solution to the Queensland Museum through modernising part of the collection storage on Level 5.

Medium to long-term storage solutions will be revisited by Arts Queensland to update plans given the completion of the above short-term solutions.

Opportunity 4

Identify and progressively implement a program of multi-use sports infrastructure.

Status update: A number of multi-use sports infrastructure programs and facilities are being implemented or are undergoing upgrades. These facilities include development of a multi-field sports park in Toowoomba, upgrades to the Barmaryee Multi-sport Precinct in Yeppoon, construction of a multi-sport facility at Fernvale.

State-owned and managed sites including Townsville Sport and Recreation Precinct, Toowoomba Sports Ground and Queensland recreation centres at Tallebudgera and Sunshine Coast are favoured by domestic and international sporting groups and athletes not only for their multi-purpose functionality but also for their accessibility and modern design. These venues have recently played host to competitors from 12 countries including Japan, USA, Italy, France, Samoa and Greece.



Future opportunities – cont.

PLANNING

Opportunity 5

Explore opportunities to better use assets through better coordination and management and to support tourism.

Status update: Supporting tourism outcomes has been part of the focus for state-owned sporting facilities during recent and ongoing infrastructure upgrades at these sites.

Toowoomba Sports Ground is a firm favourite with spectators, having played host to over 15,000 spectators at two major National Rugby League Broncos season trials and the Titans league game.

The Browne Park Stadium in Rockhampton is the home of rugby league in Central Queensland. A feasibility study is currently underway to consider a stadium upgrade to develop a right-sized, cost-effective, footy-focused rectangular stadium that has the potential to host NRL games and international artists of up to 10,000 spectators.

A number of our major venues have played a critical role in the Commonwealth Games:

- ▶ Gold Coast Recreation Centre hosted all Commonwealth Games Security Staff for the duration of the games
- ▶ Sunshine Coast Recreation Centre hosted all pre-Commonwealth Games training camps for the Pacific Island Nation of Niue
- ▶ Townsville Sports House and Sports House Milton were involved in the Queen's Baton Relay
- ▶ Brisbane Shooting Complex was provided with \$17 million to prepare the site to host all the shooting disciplines for the duration of the games.

Townsville Sports Reserve was utilised by a number of international rugby teams as a training camp prior to the Commonwealth Games and ahead of the upcoming Rugby League World Cup later this year.

The Queensland Government partnered with Cricket Australia, Queensland Cricket, the Gold Coast SUNS and the City of Gold Coast to fund the installation of cricket-specific enhancements to Metricon Stadium so that elite cricket content could be secured for the Gold Coast. This is a great legacy of the Commonwealth Games with new cricket content already secured. A T20 International between Australia and South Africa is scheduled to be played at Metricon Stadium in November 2018.

Sport and Recreation Services, within the Department of Housing and Public Works, are continuing to explore partnership opportunities with the Department of Education to increase community use of school sport and recreation infrastructure.

Opportunity 6

Investigate opportunities for infrastructure investment and better management practices of park facilities to support nature-based tourism.

Status update: Programs are currently underway to deliver on *2017–18 State Budget* infrastructure contributions. This includes \$35 million of new capital funding to revitalise Queensland National Parks infrastructure and enhance nature-based tourism opportunities, such as in Daintree, D'Aguiar, Lamington and Mount Archer national parks.

Opportunity 7

Strategic planning for new or expanded arts and cultural infrastructure.

Status update: Arts Queensland has been progressing strategic planning of infrastructure needs, with the benefits evident in the recent investments by the Queensland Government in a new performing arts venue at QPAC, the Thomas Dixon Centre, the Rockhampton Art Gallery and the 2017 Art Infrastructure Investment Fund. The focus for Arts Queensland in the coming years is to deliver these infrastructure projects.

Social housing



Townsville supported accommodation



Social housing

Every Queenslanders should have access to a safe, secure and affordable home that meets their needs and supports them to participate in the social and economic life of a vibrant and prosperous state.

The *Queensland Housing Strategy 2017–2027* is delivering more social and affordable housing and transforming the way housing services are delivered to better support people in need.

The strategy ensures those most in need have access to safe, secure and affordable housing by supporting and accelerating a program of new construction, precinct development and more flexible and responsive housing services. This means improved outcomes across the entire housing continuum – better approaches to homelessness, smarter provision of social housing, enhanced access to private rentals and pathways into home ownership.

The strategy aims to increase the supply of diverse, affordable and efficient housing options and initiatives, including:

- ▶ delivering additional social and affordable housing dwellings across the state with a focus on urban renewal and providing an effective catalyst for economic development
- ▶ working with local government to put in place better planning mechanisms to support the delivery of new, well-designed and well-located housing supported by critical infrastructure
- ▶ constructing 50 per cent of new public housing dwellings to the *Livable Housing Design Guidelines* gold or platinum level standards to increase the supply of accessible and adaptable housing
- ▶ reviewing the optimal use of public housing assets
- ▶ establishing a new Aboriginal and Torres Strait Islander housing body that will work with Aboriginal and Torres Strait Island councils and Indigenous community housing organisations to improve Indigenous housing outcomes.

The strategy will be delivered through partnerships with the private sector, other levels of government and community stakeholders and is expected to support around 450 full-time equivalent jobs per year for 10 years.

The strategy is underpinned by a \$1.8 billion investment, including \$1.6 billion over ten years for the Housing Construction Jobs Program.

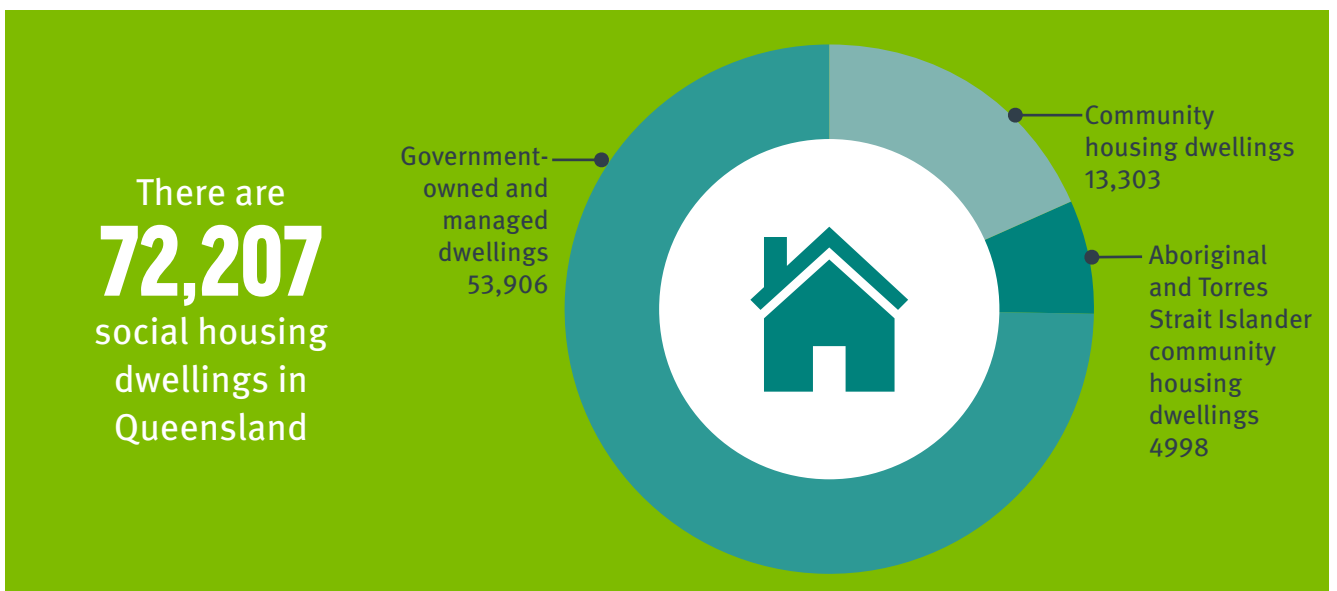
Key initiatives

Revitalising our housing and homelessness system

- ▶ Homelessness – improve the pathways from homelessness to safe and secure housing.
- ▶ Social housing – make better use of housing assets to meet the needs of communities.
- ▶ Affordable rental – increase the supply of community-managed, affordable rental accommodation.
- ▶ Private market rentals – increase the supply of affordable private market rental properties and provide greater protection and support to tenants.
- ▶ Housing supply – create a pipeline of development, undertake urban revitalisation across local precincts and encourage energy-efficient and sustainable design.



Tenant at home





Logan Youth Foyer expansion

The Logan Youth Foyer service provides young people, aged between 16 and 25, with an opportunity to live independently, while receiving the necessary assistance to become confident, strong and self-supporting. The existing complex of 22 studio apartments will be expanded by an additional 18 new one-bedroom apartments, plus administration and communal spaces which could be converted to two one-bedroom units. Construction is scheduled to commence in mid-2018.

The design was developed in consultation with key stakeholders including existing foyer residents, the property and tenancy managers, specialist homelessness service providers and Logan City Council.

This co-design process resulted in a quality design outcome with several innovative features, for example:

- ▶ communal open spaces which are centrally located between the new and existing apartments and ensure equitable access to these spaces by all residents, minimising the impact on neighbours
- ▶ an outdoor hub space providing a covered space for residents and their visitors to socialise
- ▶ administration and communal indoor spaces capable of being converted into apartments in the future.



Social housing construction

2018 pipeline

Most of the infrastructure pipeline for social housing is reflected in the Housing Construction Jobs Program, which will support and accelerate new construction and precinct development.

PLANNING

The Housing Construction Jobs Program

The Housing Construction Jobs Program is a key initiative of the *Queensland Housing Strategy 2017–2027*. It adopts a partnership approach to renewing and repurposing government land, deliver more social and affordable housing, drive economic growth at a local level and ensure better community outcomes.

Government-led development has the capacity to be a catalyst for private market housing and, in some areas, retail and commercial development.

The program will deliver a strong pipeline of work that will help support the residential construction industry across Queensland and offer jobs for local tradespeople.

Projects include state-owned sites ready for immediate construction, private sector projects with development approvals in place, community housing provider projects and precinct-based development opportunities.

The precinct-based approach will see the Queensland Government’s housing portfolio transformed to ensure it is diverse, flexible and meets the needs of vulnerable Queenslanders and their communities.

In 2017–18, the Housing Construction Jobs Program achieved more than

599
new home commencements

By 2027 the Housing Construction Jobs Program will deliver:

4522
new social homes

1034
new affordable homes

DELIVERY

Investment delivered across the state over five years

600
jobs per year

1034
new affordable homes

More than
\$1 B
worth of investments

2972
new social homes

Construction for growth

Precinct-based investment for social housing* (based on population growth and demand for housing):

Growth areas	Social housing – first 5 years
Cairns	137
Townsville	137
Sunshine Coast	243
Moreton Bay	330
Brisbane	684
Logan/Redland	492
Ipswich	383
Gold Coast	392
Toowoomba	58
Central QLD	60
Wide Bay	56



*Development and renewal opportunities are based on zoning and proximity to services and public transport as well as existing social housing property holdings.

1–4 year program

Project	Total estimated cost (\$M)	Contributions				Expenditure to June 2018 (\$M)	Funding (\$M)			
		Fed	QG	LG	Priv		2018–19	Indicative		
								2019–20	2020–21 to 2021–22	Beyond
South East Queensland										
Disability Services – Bracken Ridge redevelopment	2.757		●			0.900				1.857
Regional Queensland										
Build young women's facility in Townsville	12.000		●			2.410				9.590
Domestic and family violence shelter in Charters Towers	1.400		●			0.300				1.100
Purchase dwellings for transitional accommodation	3.000		●			0.500				2.500
Elderly Parent Carer Innovation Initiative	3.032		●			1.317				1.716
High and complex needs	1.536		●			0.227				1.309
Statewide										
Build and refurbish accommodation for people with a disability	Ongoing		●							14.141
Build and refurbish accommodation for children and young people	25.138		●			1.500			7.000	16.638
Build Indigenous community housing throughout Queensland	Ongoing	●	●							56.602
Build social housing throughout Queensland	Ongoing	●	●							191.424
Crisis Accommodation Program	Ongoing		●							3.092
Disability Infrastructure Program	Ongoing		●							1.480
Refurbish Indigenous community housing throughout Queensland	Ongoing	●	●							38.755
Refurbish social housing throughout Queensland	Ongoing	●	●							113.399

Note: Some figures may differ slightly to the 2018–19 Budget Paper 3 due to rounding.

Future opportunities

PLANNING

As planning and development advances and funding options become certain, future opportunities will transition into a project or initiative within the 1–4 year program.

Opportunity 1

Deliver additional social and affordable housing dwellings under the Housing Construction Jobs Program to meet the needs of individual households and communities over the course of the 10-year strategy.

Status update: In 2017–18, 599 new home starts were targeted for commencement and are being delivered in partnership with industry and community housing providers.

Opportunity 2

Assess the application of an inclusionary requirement on surplus government land developed for residential purposes so that a proportion of new dwellings are designated for social and affordable housing.

Status update: Inclusionary zoning requirement is only applied on a case-by-case basis at present. The Department of Housing and Public Works is working to establish a system in which this is considered for all suitable sites in vacant state land to advance the objectives of the *Queensland Housing Strategy 2017–2027*.

Opportunity 3

Work with the Australian Government to reform funding and delivery of housing and homelessness services through a new National Housing and Homelessness Agreement.

Status update: A new indexed National Housing and Homelessness Agreement will operate from 2018–19 onwards combining National Affordable Housing Agreement and National Partnership Agreement on Homelessness funds (reaching \$315.9 million) per annum for Queensland by 2020–21.

Supported accommodation in Townsville

The Townsville supported accommodation development at Bowen Road in Rosslea comprises six, two-storey buildings with 40 studio apartments providing a home for people needing various types of support for short or long periods. The development includes an administration area, reception and consulting spaces for the provision of support services to on-site residents.

The development blends well with the surrounding area which generally comprises residential uses, ranging from traditional residential allotments to medium density development including multiple dwellings and motel developments.

The complex was completed in September 2017 and is managed by Yumba Meta Housing Association, a well-known Townsville based community housing provider.

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