

ANNUAL REVIEW

10 YEAR INFRASTRUCTURE PLAN 2019-2028





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How to navigate this document

Government initiatives to encourage and support private sector investment are included on pages 8 to 11.

Planned and proposed infrastructure projects are provided in each Sector commencing from page 18.

The term 'the Plan' refers to the 10 Year Infrastructure Plan Annual Review 2019–2028.

All statistics referred to in the Plan are based on 2017–18 unless otherwise indicated.



MINISTER'S FOREWORD

The Northern Territory provides many opportunities for strategic private sector investment and the Northern Territory Government will support the growth and adaptability of local industry so it is strategically aligned with our growth sectors and global demand.

The annual review of the 10 Year Infrastructure Plan provides transparency in planning and prioritises projects identified as supporting the future growth and prosperity of the Northern Territory.

The Plan is a foundation document that makes the direction of government's priorities clear in future infrastructure and investment. It demonstrates a commitment to working with industry to unlock opportunity that will meet government objectives, achieve value for Territory and provide benefits to Territorians.

The Northern Territory Government recognises that strategically timed and well-considered infrastructure investment is critical to providing improved service delivery and outcomes for all Territorians. Transparency in the future direction of government infrastructure investment is critical to opening up opportunities for private industry to build on.

The private sector offers boundless potential for the future delivery of government's infrastructure aspirations through market-led proposals that capitalise on private industry initiatives, Aboriginal Business Enterprises and private sector partnerships. We must continue to build capacity for local industry to deliver key public infrastructure that grows the Territory and supports important service delivery outcomes.

By government supporting local industry to align with the Territory's growth sectors, global demand and export potential, local businesses will be better equipped to transition through changing economic conditions.

This will bridge the gap for local industry to explore investment diversity opportunities so they can continue to sustain and grow through changing economic times.

The Northern Territory Government is working hard to deliver a stronger, more diversified economy through a range of initiatives including the 2018 – 2028 Northern Territory Population Growth Strategy, the Economic Development Framework, the Infrastructure Strategy and Plan and targeted stimulus programs.

The Territory Government's annual infrastructure program continues to focus on supporting jobs, industry and economic activity through a variety of construction works on Territory roads, hospitals and health facilities, schools and education facilities, public and regional housing, community safety facilities, community infrastructure and tourism facilities.

The Plan is not a wish list of all infrastructure opportunities and projects, but an insight into the direction of priority areas in the Northern Territory. The Australian, Territory and local governments as well as the private sector, drive future infrastructure delivery.

This document is reviewed annually and government invites ongoing contributions from Australian and local governments, private sector and community stakeholders to share information that supports proactive future planning for infrastructure.

The Plan aligns with the Northern Territory Government's Economic Development Framework and Infrastructure Strategy.

THE HON EVA LAWLER MLA

Minister for Infrastructure, Planning and Logistics



NORTHERN TERRITORY ECONOMIC ENVIRONMENT

The structure of the Northern Territory economy is very different to the national economy, reflecting the relative impact that major projects can have on small communities.

Northern Territory economy

The Territory economy is experiencing a transition from unprecedented levels of private investment activity that has driven the Territory over the past two decades, to economic growth largely driven by exports. Over that time:

- gross state product (GSP) has grown to \$26.2 billion
- population has increased to more than 247 000 people
- workforce size has increased to 143 000 workers from 94 000 workers in 1997–98.

This has resulted in broad multi-industry expansion of the Territory economy, particularly recently through the US\$37 billion INPEX LNG Project, which added an estimated \$5 billion of investment each year to the Territory. These elevated levels of investment

are now re-balancing to reflect a smaller level of baseline projects. This presents a major challenge for on the ground activity, employment and population growth that cannot be filled by Territory Government investment.

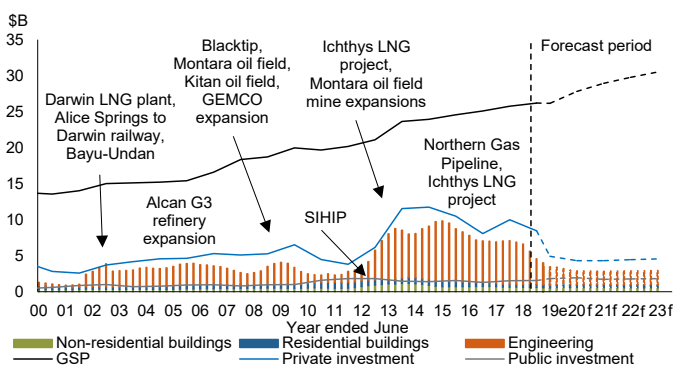
The Territory has a strong pipeline of major private sector projects, which could boost the Territory's economy. Leveraging the Territory's traditional industry strengths of energy and mining, tourism, agribusiness and defence sectors, and emerging sectors in tropical health research, international education, environmental services and creative industries, will provide opportunities to grow the Territory economy over the long term.

Northern Australia Infrastructure Facility (NAIF)

The NAIF is a \$5 billion concessional loan facility established by the Australian Government to support the construction of economic infrastructure for long term expansion of industry and population in northern Australia.

Projects will need to demonstrate public benefit and a need for NAIF investment, involve constructing or enhancing economic infrastructure, have an Indigenous engagement strategy and demonstrate the loan can be repaid.

The NAIF will consider a wide range of infrastructure, including airports, communications, energy, ports, rail and water. Loan sizes of more than \$50 million are preferred but NAIF will consider smaller projects.



Northern Territory Economy

www.nteconomy.nt.gov.au

NORTHERN TERRITORY INFRASTRUCTURE SNAPSHOT



\$1.448B Infrastructure Program
Budget (2019-20)

Energy and Minerals contributes
13% of gross state
product contribution



\$7 Billion
of NT Government road and bridge assets

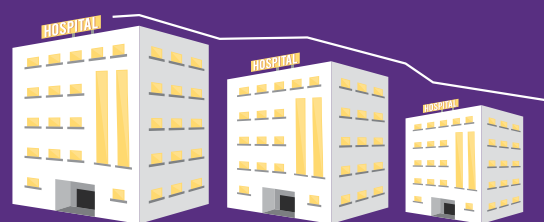
9 272 tourist accommodation
rooms available



2 220
full time NTPFES personnel



670 NT Emergency
Service volunteers



Health infrastructure valued at
\$1.635 billion
depreciating by \$42 million per year

\$735 million

Value of the agriculture, forestry and
fishing sector

Target

50%

of our electricity from
renewable sources

by 2030



5 027 people

employed in the mining sector

Defence Integrated Investment Plan (IIP)

Over the next 20 years the IIP includes:

\$18.5 billion

in Defence facilities in the Northern Territory

\$3.15 billion planned investment in the
next 6 years (to 2023-24)

International
Education &
Training



contributed
\$91 million
to the NT economy

3.4 million

visitors to parks and reserves each year

TERRITORY-WIDE LOGISTICS MASTER PLAN

The efficient movement of freight is a critical component of building the Territory's economy, better servicing our remote communities and increasing the attractiveness of the Territory as an investment destination. To operate effectively our logistics networks need sound planning, the right infrastructure and appropriate regulation.

Purpose

The purpose of the Territory-wide Logistics Master Plan is to facilitate increasing freight and logistics connections and capacity, including both international and domestic trade.

In order to achieve its vision, of a **safe, reliable and efficient freight and logistics network which underpins and drives the Territory's future economic and social development**, government and the private sector must work together to deliver actions under a number of priority focus areas.

Underlying Policy Drivers

Unlocking the full potential of Northern Australia will boost Australia's prosperity – increasing trade and employment opportunities to ensure Australia's position among the world's top economies is maintained.

Northern Australia is an economic development priority for Australia, and the Northern Territory is at the centre of this national agenda. With a key initiative to drive growth, including air, land and sea transport links, to, from and within the north.

The master plan provides a blueprint to guide future government prioritisation (investment, policy and regulatory). Government and industry must work together to ensure that freight and logistics networks are operating safely, reliably and efficiently.

The master plan is linked to the Northern Territory Government's Economic Development Framework, Infrastructure Strategy and 10 Year Infrastructure Plan and builds on the consultation undertaken through the recently published master plan discussion paper.



Industry drivers (imports and exports)

The Economic Development Framework identifies key growth industries in the Northern Territory. Of the identified growth sectors, those with a heavy reliance on freight and logistics networks include:

- agribusiness, fisheries and aquaculture
- energy and minerals
- defence and support industries
- tourism and community.

The energy, agribusiness and defence sectors are expected to experience future growth, and the tourism sector, which primarily focuses on the movement of passengers and supports the movement of time sensitive freight.

Significantly for Territory businesses and consumers, there is heavy reliance on the efficient movement of general freight, including construction materials, wholesale and retail distribution. The more efficient our supply chains can operate, through well-planned and regulated infrastructure and services, the lower costs of living will be for Territorians and the greater the opportunities there will be for new developments to succeed.

National Freight and Supply Chain Strategy

The Australian Government, in partnership with the state and territory governments, has developed the National Freight and Supply Chain Strategy, which sets the agenda for collaborative and integrated government action for freight transport over the next 20 years.

The national strategy and associated action plan was endorsed by Ministers at their August 2019 meeting. The Territory-wide Logistics Master Plan will align with, and be the Territory's implementation plan for, the national strategy.

GOVERNMENT'S INFRASTRUCTURE FOCUS

The Northern Territory Government is committed to continuing to deliver a high level of services to Territorians, in a way that is sustainable in the long term.

Our plans for generational change involve investing in kids, investing in remote housing, investing in health and education, properly funding and resourcing police, and fixing the broken youth justice system.

With declining levels of private sector construction activity, the Territory Government has actively supported the construction sector through its own infrastructure programs, procurement policy reform and targeted stimulus programs.

Remote Housing Program

As part of a focused plan to create jobs and increase community safety, remote housing is a cornerstone of generational change.

The Northern Territory Government has committed a record \$1.1 billion investment over 10 years into remote housing, with the Australian Government contributing \$550 million towards the program. This will see an expansion of construction activity and investment across remote and regional areas of the Territory, providing opportunities for improved outcomes and economic growth in the bush.

Delivering a record investment into remote housing will draw on commitments made through the Local Decision Making framework. This investment will promote opportunities to support local economic development, build the capacity of Aboriginal Businesses Enterprises and provide for Aboriginal employment and training.



Tourism

Tourism is a cornerstone of the Territory economy, supporting thousands of small and medium-sized businesses. As part of the \$103 million boost to Turbocharging Tourism stimulus program, the Northern Territory Government is developing long term tourism industry strategies that will strengthen and build on work that has already been undertaken across the sector.

The Northern Territory Government continues to support tourism initiatives that seek to provide increased private sector investment, attract visitors and support local jobs. In May 2019, \$62.8 million was announced to continue the Turbocharging Tourism initiative (Turbo2).



Transport and Logistics

The Northern Territory Government continues to focus on integrating community and land development needs with industry best practice to ensure the logistics networks and commuters are connected across the Northern Territory in our urban, regional and mining centres and our many remote Aboriginal communities.

Strategic transport planning will ensure logistics networks are operating safely, reliably and efficiently to address current and future needs of residents and our key sectors – resources, tourism, pastoralist, energy and agriculture industries.

The Ship Lift Facility at East Arm will be the largest ship lift in Northern Australia. Once operational the facility will be a catalyst for the development of the Territory's marine maintenance and servicing industry.

Urban Public Housing

Northern Territory Government provides a range of public housing options in major centres throughout the Territory. They range in sizes and types, including purpose-built and modified housing for people with disabilities.

The Northern Territory Government is also delivering a major \$45 million redevelopment of John Stokes Square in Nightcliff, including 76 new one and two bedroom public housing units for seniors and people living with disabilities, a new 24-hour police station and a linear public open space link creating a direct connection between Nightcliff Village and the Nightcliff Shopping Centre.



Public Safety and Justice

The Northern Territory Government continues to deliver infrastructure that focuses on supporting the delivery of police and emergency services, tackling antisocial behavior and alcohol-fuelled violence, and putting youth back on track by supporting at risk children and young people by providing alternative pathways away from the youth justice system.



Education

Investment in education infrastructure is not only an investment in our economy and people – it is an investment in the future of the Northern Territory. Quality infrastructure underpins quality learning and government will continue to deliver projects that support educational needs and learning outcomes.

International education was the eighth largest export for the Northern Territory in 2017–18, and Australia is recognised as the third most popular education destination in the world.

Charles Darwin University is partnering with the Australian and Northern Territory governments, as well as the City of Darwin, to deliver a new study hub in the heart of Darwin for local, national and international students. The new CDU campus will form the centre of the new Education and Civic Precinct.



Defence and Related Industries

The Territory Government acknowledges the significant role the Defence industry will play with the Integrated Investment Plan (IIP) expected to deliver \$18.5 billion of Defence facilities in the Territory over the next 20 years.

Government informs industry of infrastructure activities on the following websites:

Construction Snapshot - <https://dipl.nt.gov.au/publications/construction-snapshot>

Facilitated Investment Project Pipeline - <https://business.nt.gov.au/business/investment-and-major-projects/major-projects-in-the-northern-territory/facilitated-investment-project-pipeline>

Proposed Government Projects - <https://dipl.nt.gov.au/infrastructure/projects/planned-projects>

Housing Delivery - <https://ourfuture.nt.gov.au/>

ECONOMIC DEVELOPMENT FRAMEWORK

The Economic Development Framework was co-developed through an economic summits process in partnership with Deloitte. The process involved the private and not-for-profit sectors, land councils and Aboriginal representative groups, unions and the community.

A number of other key projects in the growth and developing sectors are in progress or complete. These include:

- delivering a Masterbrand for the Territory
- releasing the Digital Territory Strategy
- investment in the Darwin Innovation Hub
- releasing a science, technology, engineering and mathematics (STEM) policy in the Territory Strategy 2018–2022
- the Territory Government successfully negotiated for a second Designated Area Migration Agreement (DAMA) – the only jurisdiction with a DAMA in place

- delivering a fully operational, multi-disciplined agribusiness and logistics hub in Katherine
- upgrades and expansion in the Litchfield, Nitmiluk and Tjoritja/West MacDonnell national parks
- release of the Northern Territory Defence Strategic Plan.

The Economic Development Framework and associated progress reports are available at EDF.nt.gov.au.

PARTNERING WITH THE PRIVATE SECTOR

The Northern Territory's development is a partnership between the public, private and not-for-profit sectors, including Aboriginal land owners.

The economic development of the Northern Territory depends on private sector investment – and we have exceptional investment potential. Our unique advantages provide a powerful platform for sustainable development.

The Northern Territory Government has created new and improved opportunities for the private and not-for-profit sectors to work with government to deliver the transformative infrastructure and projects needed to build the economic wealth and improve the social well-being of Territorians.

The Government has committed to establishing a new Office of Investment Attraction, a coordinated approach to investment attraction, facilitation and delivery in the Territory.

Major private sector and government facilitated projects contribute significantly to the Territory economy by creating jobs and business opportunities.

Major Project Status projects

The Northern Territory Government awards Major Project Status to private sector initiated projects that are significant, complex and have strategic impact.

These projects can attract and promote secure private sector investment to broaden and deepen the Territory economy and deliver transformational impacts on local communities.

The Northern Territory Government assists the timely and effective delivery of major projects through facilitation of efficient and consistent government processes and providing certainty to projects and their financiers around government commitments.

Government facilitated projects

Government facilitated projects are projects that have the capacity to deliver significant benefits for the Territory, but that are not sufficiently attractive to secure timely development by the private sector.

The Northern Territory Government will partner with the private sector to deliver these transformative projects and realise their economic and social benefits.

Facilitated projects currently being delivered include the Westin Luxury Hotel, while private sector investment is currently being sought for seniors lifestyle accommodation projects in the Darwin region.

New projects being examined as part of the ongoing development include super yacht facilities in Darwin and luxury lodge accommodation opportunities throughout the Territory.

Market-led Proposals Policy

Private investment is critical to stimulate economic activity, create jobs, grow labour force skills and expertise, and make the Northern Territory welcoming and liveable.

The Market-Led Proposals Policy was released in February 2018 following a commitment by the Northern Territory Government in the Northern Territory Infrastructure Strategy.

The policy provides a clear, robust and flexible process for the government and private sector to work together to generate private investment and promote development of innovative ideas and strategies to advance economic development.

The policy provides options for the Northern Territory Government on how to progress proposals that have significant merit and are likely to be in the public interest, depending on the degree and type of unique and innovative elements contained in the proposal.

<https://business.nt.gov.au/business/publications/policies/market-led-proposals-policy>

Local Jobs Fund

The Northern Territory Government has established a \$89 million co-investment fund to accelerate major and significant projects in the Territory. The fund will help high growth potential Territory businesses to create local jobs, increase exports of goods and services interstate and internationally and substitute imports with locally produced goods and services.

The fund can provide direct support and investment into a project through concessional loans, loan guarantees and equity investments.

Grants are available for planning and developing collaborative infrastructure initiatives and to develop transformational infrastructure that promotes broader industry and economic development.

For further information go to jobsfund.nt.gov.au



LOAN
GUARANTEES



BUSINESS
INVESTMENT
LOANS



EQUITY
CO-INVESTMENT



GRANTS
PROGRAM



ONSHORE GAS INDUSTRY DEVELOPMENT

The Northern Territory is home to untapped onshore gas resources of global scale and potential. After the Scientific Inquiry into Hydraulic Fracturing was completed in 2018, the Northern Territory Government lifted the moratorium on hydraulic fracturing to allow onshore gas resources to be developed. The goal now is to prove-up the commercial viability of these resources and maximise the benefits for Territorians wherever possible.

Northern Territory Gas Strategy

The vision for the Northern Territory Gas Strategy is for the Territory to become a world class gas production, manufacturing and services hub by 2030. This includes a 5 Point Plan to grow and diversify the Territory's gas industry to:

1. expand the world-scale Darwin liquefied natural gas (LNG) export hub
2. grow the Northern Territory's service and supply industry
3. establish gas-based processing and manufacturing
4. grow local research, innovation and training capacity
5. contribute to Australia's energy security.

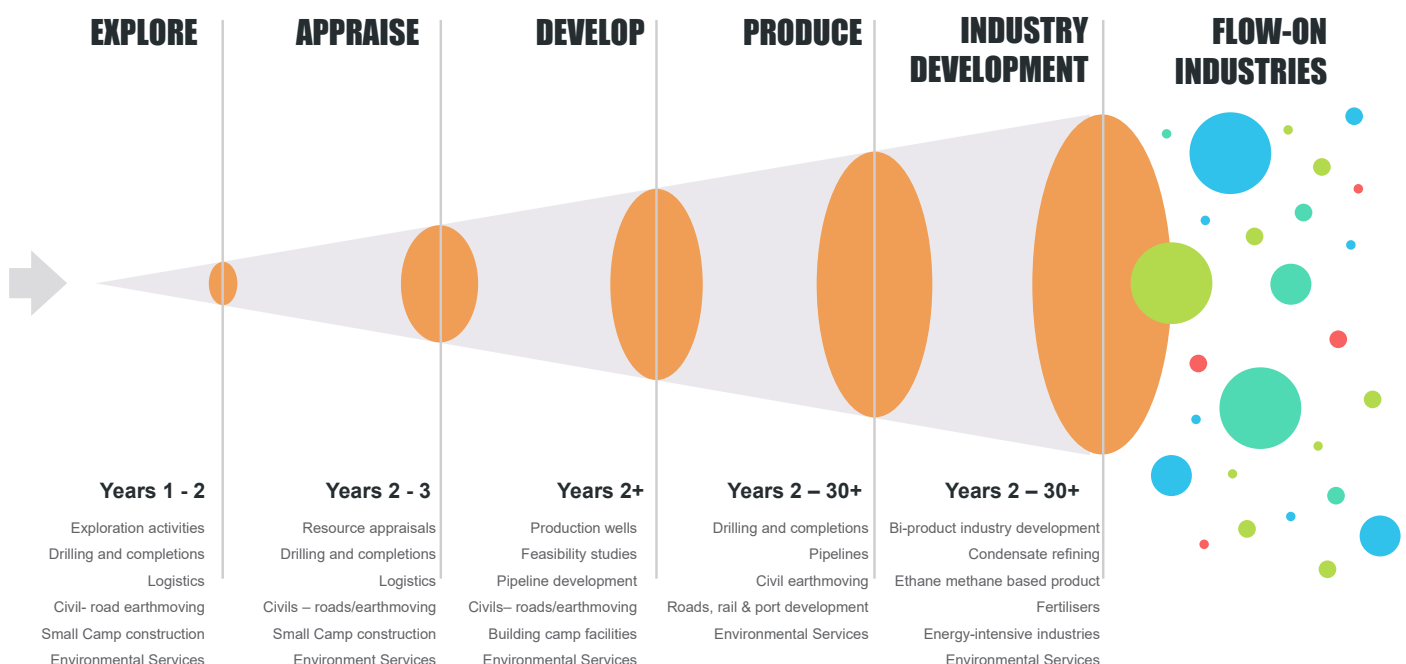
Proven gas reserves offshore have underwritten the construction and operation of three LNG trains in Darwin, which combined can produce a globally significant 12.6 million tonnes per annum (Mtpa). Darwin now supplies more than 10 per cent of Japan's

global LNG imports. Darwin has land available for five additional brownfield LNG trains and this provides an attractive pathway to market for yet-to-be developed proven offshore reserves and our potential onshore gas resources.

Expanding our LNG production complements establishing a downstream industry, as it brings economies of scale that can drive down unit costs.

Existing wells drilled by Origin, Santos and Pangaea, and associated discovery reports, indicate a P50 Gas-In-Place Resource of at least 500 trillion cubic feet (Tcf) for the Beetaloo Sub-basin in the Velkerri B shale alone. There are further prospective layers in the Beetaloo Sub-basin, and other basins, yet to be assessed. Ten per cent of this resource is four times the size of the Ichthys gas field.

Potential Onshore Gas Industry Development



Gas Infrastructure

Given the remote location of the primary onshore resources in the Beetaloo Sub-basin – about 600 kilometres south of Darwin – the infrastructure requirements are potentially immense.

Expansion and extension of existing transport infrastructure such as pipelines, road, rail and air access will be essential.

Through the Territory's Memorandum of Understanding with the Australian Government a collaborative study will help guide and determine the planning, infrastructure, logistics, workforce and service requirements to develop the onshore oil and gas industry from the exploration phase through to the production phase.

The Australian Government has contributed \$8.4 million to the development of the onshore sector in the Northern Territory.

Expanding service and supply sector

The LNG industry in Darwin Harbour delivers a demand-driven opportunity for Territory businesses to service and supply routine operational and maintenance activities over the life of these projects. Through a series of studies commissioned by the Northern Territory Government, the local service and supply sector will have an opportunity to identify niche opportunities in high value-added areas.

The Territory has invested in critical infrastructure to service the oil and gas sector, including the Marine Supply Base and East Arm Logistics Precinct in Darwin Harbour, and is working to enhance logistics capabilities with a ship lift facility, Marine Industry Park and the proposed Middle Arm Industrial Precinct.

The advent of an emerging onshore gas industry will present new opportunities of scale and longevity that will underpin the service and supply sector for generations to come.

Potential downstream industry developments

Potential downstream industry developments could include:

- condensate refining
- producing methane based petrochemicals
- manufacturing ethane based products including methanol
- ammonia and ammonium nitrate, urea and other fertilisers that use local phosphate deposits
- energy intensive industries.

Technological change will bring further opportunities, including local value-adding.

The Northern Territory Government will establish a policy and guidelines for conducting social and cultural impact assessments and management plans. These guidelines will include analysis of road use and infrastructure requirements and will reflect the Traffic Impact Assessment.

The government has commenced a scoping study to understand existing infrastructure provision, land availability and land tenure in the Beetaloo Basin and is identifying potential locations for facilities to support oil and gas industry operations. Project social impact assessments and social impact management plans will be required to consider housing and accommodation plans as part of the assessment.

Onshore Gas Regulation

In April 2018, government announced it had accepted all 135 recommendations from the final report of the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory. The implementation plan to progress the recommendations was publicly released in July 2018.

Since the release of the implementation plan, the priority was to implement recommendations to allow applications for exploration approvals to be assessed this year. These recommendations are summarised in Table 16.1 of the final report. The primary focus is to strengthen regulation to ensure accountable industry practice in preparation for exploration.

The industry is expected to resume exploration activities in the Beetaloo Sub-basin in 2019.

All regulatory reform areas will be implemented to build trust through transparency. The reform areas are:

- strengthening regulation
- ensuring accountable industry practice
- safeguarding water and the environment
- respecting community and culture
- maximising regional benefits and local opportunities
- planning for industry.

The government's 10 Year Infrastructure Plan will include requirements for new or upgraded infrastructure as informed by stakeholders.

Progress reports are available at <https://hydraulicfracturing.nt.gov.au/>

CLIMATE CHANGE

In the Northern Territory, physical impacts such as higher temperatures, sea level rise, and more intense and frequent extreme weather events present challenges to the operation and maintenance of existing infrastructure. The transition to a low-carbon economy and adaptation strategies to address the impacts of climate change may also present additional risks, including asset devaluation and higher costs associated with adapting to the impacts of climate change.

Infrastructure is built for the long term and what is designed and constructed today must withstand long-term changes to the climate. Climate change may mean the ongoing function of existing infrastructure may be compromised, leading to increased risk including lower returns for existing investments. Incorporating climate risk considerations in the design and construction phase can reduce risk, such as the need to retrofit, which is generally costly and less efficient.

Infrastructure investment decisions lock us in for several decades. By considering future climate impacts in the planning and design stages, the Northern Territory can increase resilience in its infrastructure and reduce its exposure to climate risks into the future.

The Northern Territory Government will continue to develop adaptation strategies to address risks to climate-sensitive sectors and Government services and assets.

COMMITMENT FOR NORTHERN TERRITORY GOVERNMENT INFRASTRUCTURE PROJECTS

- Climate Change
- Environmentally Sustainable Design
- Section J Compliance, where practical

The National Construction Code (NCC) excludes the Northern Territory from complying with the Section J requirement, relating to the energy efficiency measures of a building, however the Northern Territory Government strongly recommends environmentally sustainable design (ESD) principles, Section J compliance or elements of Section J for government building projects in their standard design template. There is no policy on sustainability for building design so projects are assessed on an individual basis, and benefits determined, to ensure greater than legally required energy efficiency measures are adopted at all times.

EXPECTED CLIMATE CHANGE IMPACTS ON THE NORTHERN TERRITORY



VARIABLE RAINFALL

There is uncertainty in the total projected rainfall for the northern region, but intensity of extreme rainfall is expected to increase.



DROUGHTS

Droughts are expected to continue, particularly in the southern region.



INTENSITY OF EXTREME WEATHER EVENTS

The frequency of tropical cyclones is expected to remain constant or decrease, but they are expected to be more intense. Higher storm surges are expected to impact the northern coast.



DAYS OVER 35°C

Hot spells and the number of days over 35°C are expected to be experienced for around 33% of the year by 2100.



SEA LEVEL RISE

Sea levels could rise by 65 cm to 87cm above 2005 levels by 2100. This could lead to larger king tides and storm surges.



BUSHFIRE INTENSITY

Fire intensity is expected to increase in the northern half of the Territory, while fire frequency is not expected to change.



TEMPERATURES

Over the past 100 years, average temperatures have already risen by around 1°C, and are expected to continue to rise a further 2.7°C to 4.9°C by 2100.



EVAPOTRANSPIRATION

Evapotranspiration (a combination of evaporation and plant transpiration from the Earth's land and ocean surface to the atmosphere) is expected to increase in all seasons. And is expected to be exacerbated by higher temperatures.



ECONOMIC COSTS

Total economic costs of extreme weather events in the Northern Territory were estimated at \$1.3 billion per year in 2017. This is expected to rise to \$3.3 billion per year by 2050. These figures do not factor in the impacts of heatwaves and other climate change events.





NT GOVERNMENT DESIGN PRINCIPLES ON ALL GOVERNMENT PROJECTS

The Northern Territory Government's practice for energy efficiency and other sustainability goals in building design includes:

- commitment to government's minimum design standards
- capital projects of \$5 million and above in value are to be assessed for compliance with Section J and engagement of an ESD consultant
- government buildings being designed to mitigate higher average temperatures
- environmentally sustainable designs include orientation, building fabric, insulation, external glazing and shading
- energy efficient external glazing to suit the climate zone
- government infrastructure minimum design standard for heating, ventilation and air-condition (HVAC) Systems and appropriate energy efficient air-conditioning and ventilation system technology to combat humidity
- enhance the passive cooling capabilities, use of energy efficient lighting (LED technology) and 5 Star plus rated appliances to mitigate higher demand for electricity
- specify water efficient fittings with higher water efficiency labelling (WEL) rated toilet and bathroom fittings
- use low volatile organic compounds (VOC) paints
- adopting drought tolerant natives in landscape projects
- vapour barrier details included as part of government's standard drawings
- 'end of trip' facilities (e.g. bike racks, showers) to encourage alternatives to driving to work to reduce transport emissions.



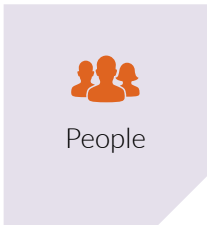
DEVELOPMENT LEVERS

Six development levers critical to economic and social development, investment and jobs growth in the Northern Territory were identified through the 2016–17 Economic Summits process.



Natural resources includes the land, flora, fauna, soils, water, minerals, oil, gas, waterways, inshore fisheries, coastal areas, the entire biomass in the Northern Territory, and our knowledge about these things. These resources are integral to the Territory's economic growth and underpin priority industries, in particular agriculture, energy, mining and tourism.

.....



People have a two-fold impact on the economy – they are the consumers of goods and services and are the workforce that supplies labour and knowledge. For our economy to grow, we must increase our population and find ways to engage the future workforce. Helping people re-skill, upskill and reinvent their jobs will be essential.

.....



Capital refers to different types of funding for businesses to invest in required technology, education, plant and equipment that support future growth. Capital also includes investment in the infrastructure that helps the economy function – road, rail, marine and air transport, pipelines, poles and wires, energy, water, buildings and telecommunications networks.

.....



Better **connectivity** is critical to ongoing economic growth to strengthen our supply chains to improve the movement of people, goods and information, as well as connect with people who may exchange information, buy our products and services, or help us build relationships and partnerships to develop or reach markets.

.....



Enterprise and innovation occurs when entrepreneurs, universities and governments strive to improve the products and services they deliver. Innovative structures and management strategies can help unlock the latent economic potential of our economy.

.....



A constant focus on improving **liveability** is important to promote the Northern Territory as an attractive place to live, work, study, visit, research and raise families. Unless we can convince other people of this, we will find it difficult to sustain a workforce that can support business growth and grow our population. A small population limits the range of choices available to Territorians and affects the cost of living and the cost of doing business.

CROSS SECTORS



Integrated Land Use and Infrastructure Planning



Regional Economic Development

SECTORS

The growth and essential sectors in this document provide a snapshot of the challenges for infrastructure delivery, opportunities and investment needs.



Agribusiness



Tourism



Energy and Minerals



Defence and Related Industries



Education and Training



Electricity



Water



Transport and Logistics



Public Safety and Justice



Health



Housing



Art, Culture and Active Recreation



Digital

Each sector in this document provides a summary of the role infrastructure plays in meeting government objectives and industry and community needs. Sectors also provide a summary of the challenges that will impact future infrastructure provision and identify ways we can respond to these challenges.

Each sector includes a table of infrastructure projects identified by region and timeframe to sequence delivery.

Infrastructure projects are at various levels of maturity and many are unfunded. The Northern Territory Government continues to work with the Australian and local governments, as well as private industry, to drive the Territory's future.

Planned infrastructure projects are identified in the first two years of the 10 Year Infrastructure Plan (2019–20 and 2020–21)

Commercial in confidence and unknown values are indicated by •

Proposed infrastructure projects are identified in the:

- medium term (2021–22 to 2023–24) and
- longer term (2024–25 to 2028–29).

All medium and longer term expenditure indicators are represented by •

Cross Sector: Integrated Land Use and Infrastructure Planning



To plan for the Northern Territory's future growth, strategic land use and infrastructure planning is used to inform the efficient delivery of infrastructure to support sustainable development.

The location and scale of infrastructure required for people to live, work and play in the Northern Territory is guided by strategic land use plans.

The Northern Territory Planning Commission is an advisory body to the Minister for Infrastructure, Planning and Logistics, and under the *Planning Act*, is responsible for preparing Strategic Land Use Plans across the Territory. These plans outline how land should be used and developed now, and into the future.

Integrated land use and infrastructure planning facilitates development by identifying suitable land and the necessary infrastructure to support commercial, industrial or residential land development to provide housing and services, such as schools, hospitals, police and fire stations and commercial centres.

Land use and infrastructure planning is critical to support and plan for future population growth and to diversify and develop our economy. Providing a steady supply of development ready land to meet

the needs of the community and industry, support economic development opportunities when they arise.

Investment in land use and infrastructure planning at the Regional, Sub-Regional and District level underpins our future development and provides investment certainty.

PRIORITY PROJECTS

- **Developing integrated land use and infrastructure plans across the Territory**
- **Delivering development projects across the Territory, including:**
 - Katherine Logistics and Agribusiness Hub
 - Katherine East Neighbourhood Centre
 - Holtze Industrial Estate
- **Land servicing to support the Remote Housing Investment Package**

Key objectives

Coordinate land and enabling infrastructure planning to support sustainable and orderly development.

Provide creative and innovative infrastructure delivery options that demonstrate value for money and encourage private sector investment.

Deliver land to meet residential, commercial and industrial demand to support sustainable economic development.

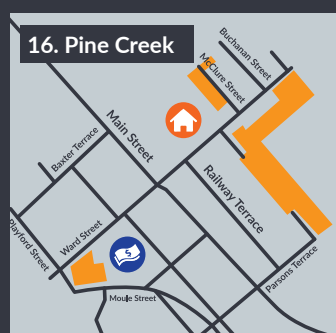
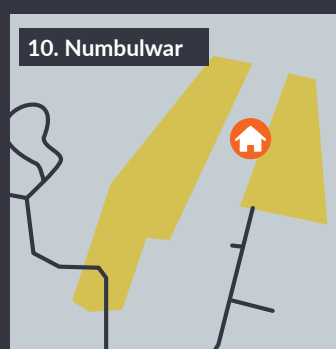
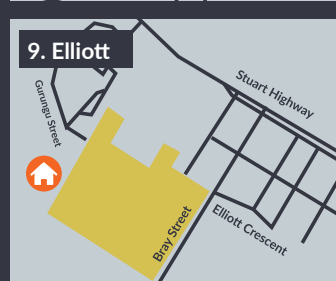
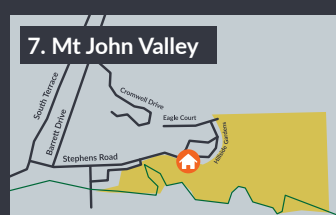
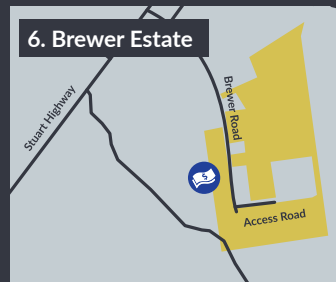
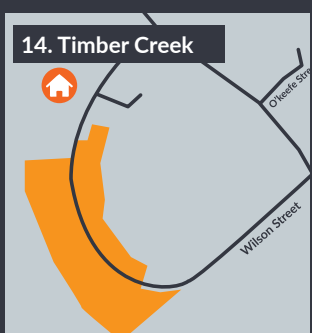
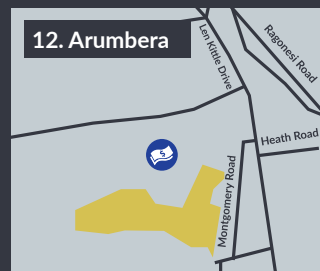
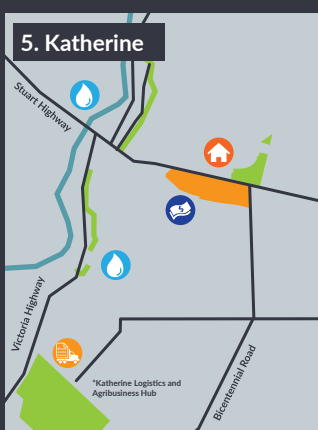
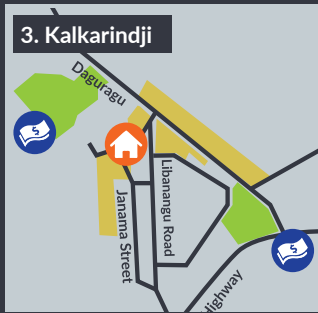
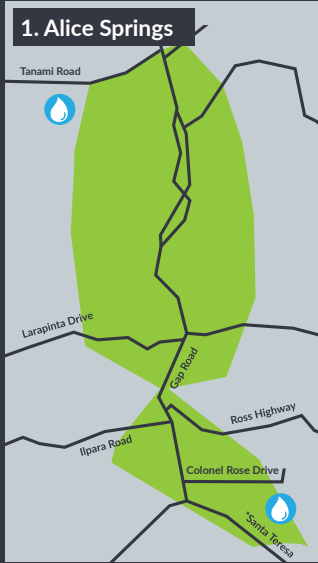
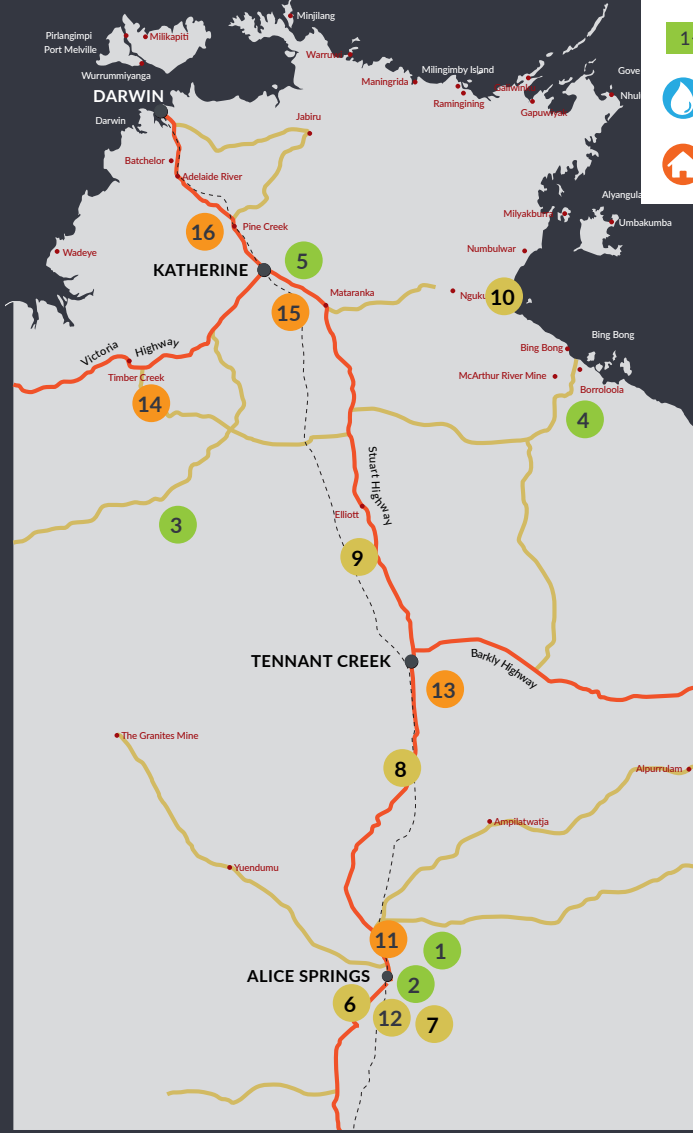
Deliver an ongoing program of investment in infrastructure to service land to ensure development ready land is available in advance of acute demand.

Ensure effective management of natural resources for sustainable development and protect the Northern Territory's unique natural, heritage and cultural assets.

LEGEND

1-2 YRS 3-5 YRS 6-10 YRS

-  Flood mitigation
-  Industrial / commercial development
-  Residential development
-  Industrial hub/park



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Remote Housing Investment Package - land servicing for - new subdivisions - infill lots - headworks		✓			419	61	38	•	•	 Develop and release land to support housing for a growing population, reduce overcrowding and improve health outcomes
Support the development of land - planning - concept development - detailed design		✓			•	6	5	•	•	 Enable economic development and population growth
Northern Territory Government Leased Property Stimulus scheme - commercial building upgrades				✓	•	•				 Support local business by encouraging private sector building upgrades
Regional waste management and recycling facilities	✓	✓	✓	✓	•	1	•	•		 Support improved waste management and recycling processes
Central Australia										
Kilgariff Area Plan - infrastructure plan and delivery		✓		✓	28	5		•	•	 Enable economic development and population growth
Arumbera general industry subdivision		✓			20			•	•	 Enable economic development
Mt Johns Valley Area Plan - infrastructure plan and delivery		✓		✓	20			•	•	 Enable economic development and population growth
Arlparra - subdivision and community infrastructure	✓				16	6				 Support land development and release to provide housing for a growing population to improve health outcomes
Brewer Estate general industrial development		✓			16			•	•	 Enable economic development
Larapinta Area Plan - infrastructure plan and delivery		✓		✓	11				•	 Enable economic development and population growth
Alice Springs - new infrastructure to mitigate flooding		✓			10		10			 Improve community safety and reduce the damage, disruption and costs associated with major flood events
Ti Tree land development		✓			4			•		 Enable economic development and population growth

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
Tennant Creek Area Plan infrastructure plan and delivery - industrial - residential		✓		✓	12				•	  Enable economic development and population growth
Elliott land development		✓			4			•		  Enable economic development and population growth
Katherine Region										
Katherine Logistics and Agribusiness Hub (inland port) ^		✓		✓	30	30	•			  Support development of Katherine as an inland port
Katherine Region - new infrastructure to mitigate flooding	✓	✓			25	10	•			  Improve community safety and reduce the damage, disruption and costs associated with major flood events
Katherine East Residential Area Plan - infrastructure plan and delivery	✓	✓	✓		16	2	4	•	•	  Enable economic development and population growth
Land development - Borroloola - Mataranka - Timber Creek - Pine Creek		✓			14		4		•	  Enable economic development and population growth
Katherine East Industrial Area Plan - infrastructure plan and delivery		✓		✓	10				•	  Enable economic development
Kalkarindji commercial / industrial land development		✓			8	4			•	  Enable economic development

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Numbulwar residential and community subdivision			✓		•			•		Enable economic development and population growth
Top End Rural										
Batchelor Airport - provide serviced commercial allotments	✓	✓	✓		10	1			•	Support local economic development, satisfy existing and future industry demand
Infrastructure planning - Cox Peninsula - Weddell		✓		✓	•	1			•	Enable economic development and population growth
Tiwi Islands - develop greenfield sites for aquaculture, agriculture, tourism and industrial purposes		✓		✓	•			•	•	Support the development of local industry and create a sustainable economy
Palmerston and Litchfield										
The Heights Durack				✓	160			•	•	Enable economic development and population growth
Zuccoli Village - stage 1 - a joint venture with a private developer to deliver lots for sale		✓		✓	80	10	10	•	•	Enable economic development and population growth
Zuccoli Mitchell Creek Green - stage 2				✓	•	•	•			Enable economic development and population growth
Zuccoli Aspire - stage 3, 4 and 5 - 1180 lots - neighbourhood centre				✓	150	•	•	•		Enable economic development and population growth
Infrastructure plan and delivery - Coolalinga - Howard Springs		✓		✓	42			•	•	Enable economic development and population growth



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Palmerston and Litchfield										
Holtze Area Plan - infrastructure plan and delivery		✓			38			•	•	 Enable economic development and population growth
Holtze Industrial Estate		✓			18	4		•		 Support the development of local industry and create a sustainable economy
Middle Arm Industrial Precinct - stage 1 - Channel Island Road intersection and access road		✓			13	6	7			 Enable economic development
Palmerston East - headworks		✓			8	2				 Enable economic development and population growth
Palmerston/Litchfield Region - new infrastructure to mitigate flooding		✓			5	3				 Improve community safety and reduce the damage, disruption and costs associated with major flood events
Yarrowonga - new Bunnings Warehouse				✓	•	•				 Enable development of the Palmerston CBD
Farrar West - future residential subdivision				✓	•		•	•	•	 Enable economic development and population growth
Darwin										
Education and Civic Precinct - including a new Charles Darwin University Campus in the CBD (part of City Deals*)^	✓	✓	✓	✓	400+			•		 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Transport Industry Precinct including Truck Central stages 2-9		✓		✓	115	4		•	•	 Enable economic development
Marine Industry Park		✓			100+	10		•	•	 Support the development of local industry and create a sustainable economy
Berrimah Industrial Estate - warehouse / showroom developments				✓	100			•	•	 Increase availability of quality light industrial premises
Darwin Corporate Park - commercial office spaces - stage 2 (building 5) - stage 3 (building 6 and 7)				✓	65			•	•	 Increase availability of quality office space

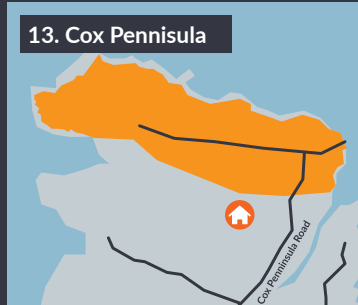
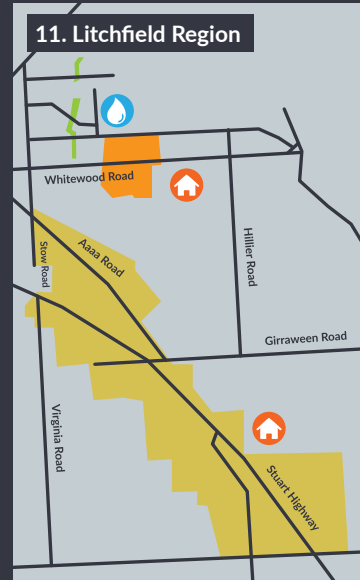
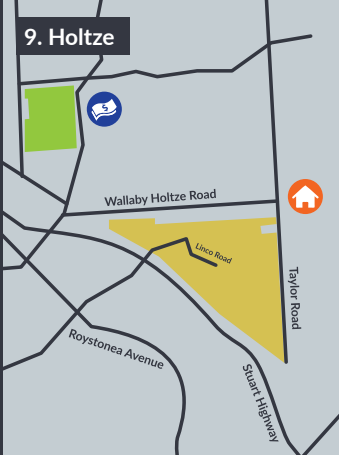
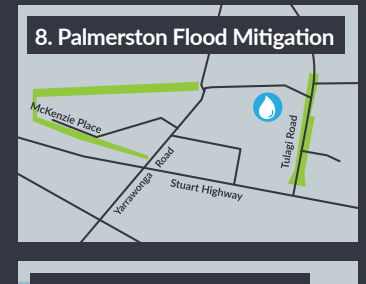
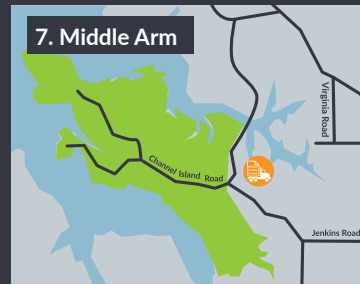
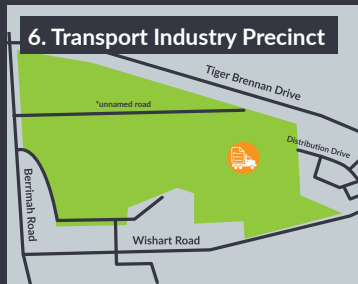
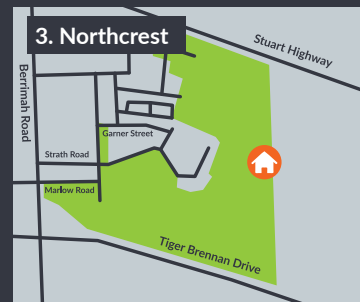
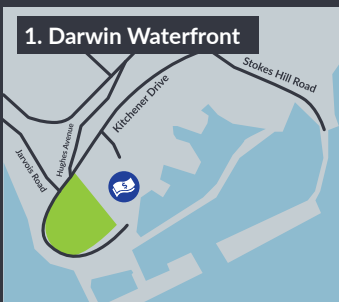
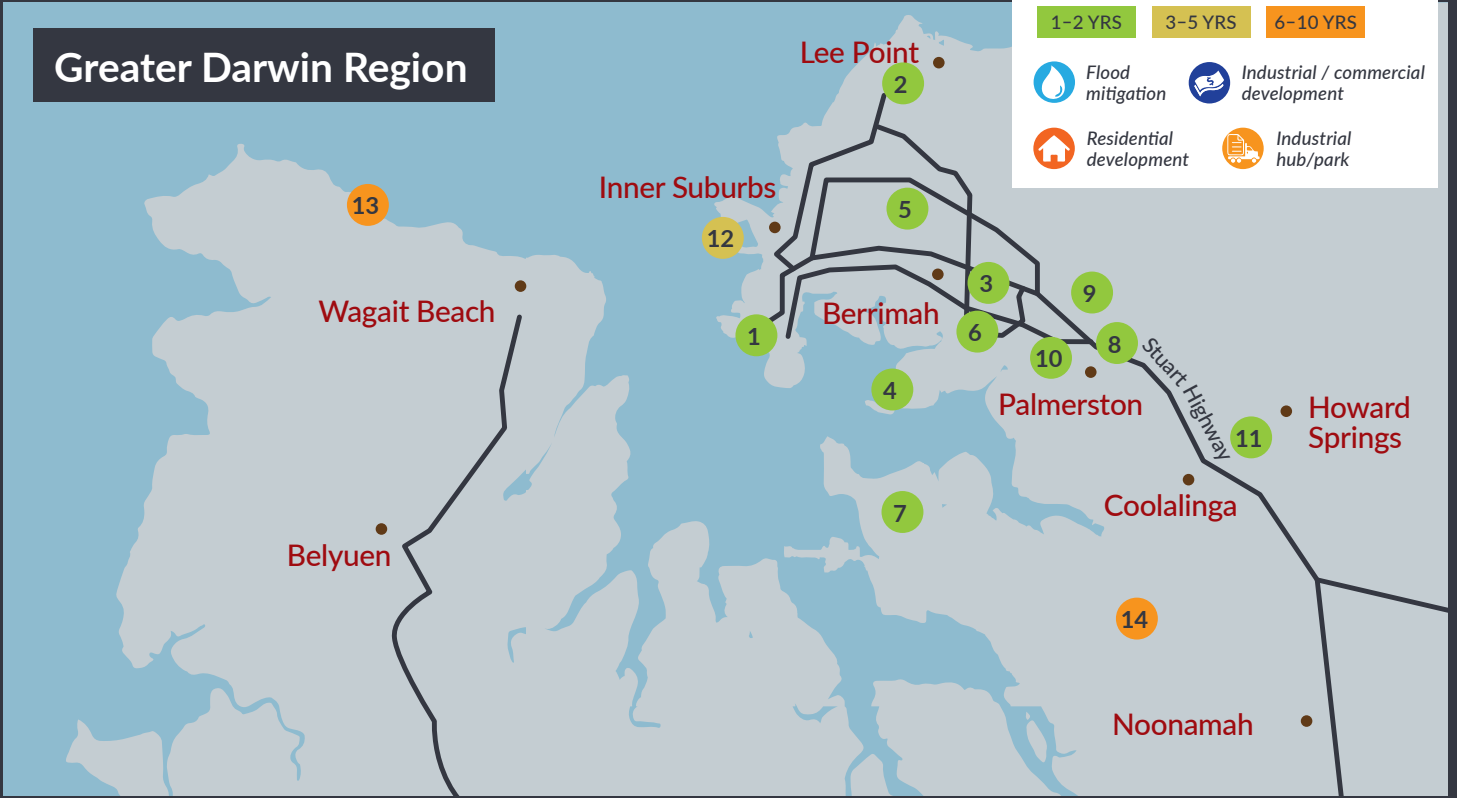
Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Berrimah Business Park - showroom developments				✓	60	•	•	•		 Increase availability of quality commercial premises
Berrimah North Area Plan - infrastructure plan and delivery		✓		✓	40	16	4	•	•	 Enable economic development and population growth
Darwin Inner Suburbs Area Plan - infrastructure plan and delivery		✓		✓	30			•	•	 Enable economic development and population growth
Shoal Bay Waste Disposal Site - regional waste management			✓		22	14	8	•		 Support population growth
Stormwater upgrades			✓		20	2	2	•	•	 Improve community safety and reduce the damage, disruption and costs associated with stormwater issues
Darwin Waterfront - headworks infrastructure - critical infrastructure upgrades - landscaping works		✓		✓	7	6				 Enable economic development
Upgrade Kitchener Drive drainage system		✓			5			•		 Improve safety and reduce the damage, disruption and costs associated with flood events
Extension of Ludmilla Creek and Kulaluk trunk drains		✓			3	3				 Improve safety and reduce the damage, disruption and costs associated with major flood events
Coastal foreshore erosion mitigation			✓		2			•		 Mitigate and protect areas of the Darwin foreshore from erosion
Northcrest Berrimah - headworks - new residential subdivision - neighbourhood centre - school				✓	•	•	•	•	•	 Enable economic development and population growth
Lee Point residential subdivision	✓			✓	•		•	•	•	 Enable economic development and population growth
Greater Darwin Regional Waste Management Facility		✓	✓		•			•	•	 Support population growth
Frances Bay Mooring Basin upgrade		✓			•				•	 Support economic growth and improve safety

Greater Darwin Region

LEGEND

1-2 YRS 3-5 YRS 6-10 YRS

-  Flood mitigation
-  Industrial / commercial development
-  Residential development
-  Industrial hub/park



Agribusiness, Fisheries and Aquaculture



The Northern Territory hosts a diverse range of primary industries – from traditional cattle, horticultural crops and wild caught seafood, to niche products such as crocodile skins and forestry products.

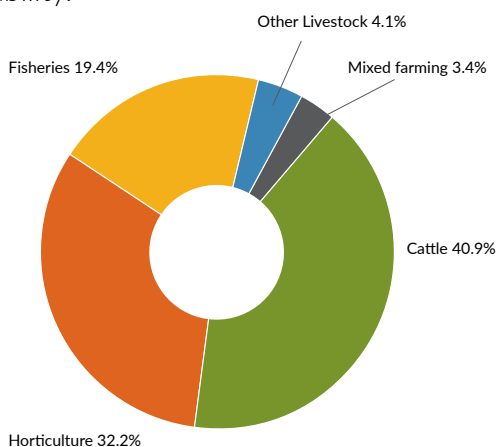
Our primary industries create jobs, link tourism interests and connect our Aboriginal communities, especially in regional Northern Territory.

Our number one agribusiness industry is cattle production followed by horticulture crops, fisheries, other livestock and mixed farming.

The Territory now hosts the largest aquaculture barramundi farm in Australia, while Project Sea Dragon, once developed, will be the largest integrated aquaculture operation in Australia.

Our large pastoral estate and Aboriginal land offer opportunities to diversify agricultural enterprises, when welcomed by land managers. Diversification requires access to suitable soils, water and transport infrastructure to enable reliable supply chains.

Improved telecommunications will support on-farm technology, resulting in increased productivity and profitability.



Primary industries in the Territory are valued at A\$730 million.

The Darwin Port continues to be developed to enable agri-food products to be freighted by sea and an export hub is planned for the Darwin Airport to facilitate international air freight for premium products.

Further investment is needed to:

- develop the Katherine Logistics and Agribusiness Hub and develop new and intensified agricultural production in the surrounding Big Rivers Region
- maintain and improve the regional road network to facilitate all-weather access, reduce travel time and maintain product integrity
- develop processing, cold chain infrastructure and logistics support for key agricultural industries such as mangoes, other fruit, fish and seafood.

Northern Territory Seafood Council
 NT Fisheries Infrastructure summary report
www.ntsc.com.au/documents/item/335

PRIORITY PROJECTS

- **Export Hub** – at Darwin International Airport.
- **Katherine Logistics and Agribusiness Hub** – develop to support agribusiness, resource, defence and tourism growth.
- **Wildman River Agricultural Precinct** – develop precinct to take advantage of good quality agricultural land and available water resources.
- **Gunn Point Precinct** – develop a master plan to support planned aquaculture and agricultural development.

Key objectives











Work to establish a flourishing economy underpinned by profitable and sustainable resource-based industries.

Achieve optimal sustainable use of the Northern Territory's natural resources.

Work with our partners to stimulate and sustain agribusiness throughout the Territory.

Implement the Biosecurity Strategy where all Territorians share the responsibility to minimise the threat and impact of plant and animal pests and disease to the Territory's economy, natural environment and community.

Increase the engagement of the regional Northern Territory workforce in primary industries.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Provide infrastructure, including roads, to encourage horticulture development at Deep Well Station		✓		✓	40			•		 Support development of a horticultural industry
Barkly Region										
Barkly Regional Deal - new weather radar^	✓	✓			15		15			 Underpin the development of agribusiness and resource exploration
Katherine Region										
Katherine Logistics and Agribusiness Hub (inland port)^		✓		✓	30	30	•			 Enable agribusiness, fisheries and aquaculture supply chains, processing and transport
Cotton Gin facility				✓	•			•		 Support the emerging cotton industry, subject to outcome of feasibility studies
East Arnhem										
Nhulunbuy marine infrastructure^		✓		✓	17+	•	•		•	 Underpin the development of the agribusiness, fisheries and aquaculture industry to service the community and export markets
Top End Rural										
Project Sea Dragon - aquaculture farm proposed for Legune Station	✓	✓		✓	2100	•	•	•	•	 Enable long term economic growth
Wildman River Agricultural Precinct - develop roads and three phase power and telecommunications		✓			20		20			 Underpin the development of the agribusiness, fisheries and aquaculture industry should land and water resources be sustainable
Humpty Doo Barramundi farm expansion				✓	•	14	•	•	•	 Further develop and expand the fisheries export industry supported by Northern Australia Infrastructure Facility (NAIF)
Darwin										
Northern Territory Government Research Precinct - Berrimah Farm office accommodation - essential services - upgrade field lab - extend veterinary lab with new molecular lab wing - new agricultural lab facilities	✓	✓			38	29	•			 Increase research capacity and capability in the Territory
Darwin International Airport - airport freight, cold storage, vapour heat treatment plant and education hub^	✓			✓	15	•				 Enable long term economic growth by expanding export opportunities supported by Northern Australia Infrastructure Facility (NAIF)

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Tourism



The lure of natural landscapes, rich culture and unique visitor experiences underpins the Northern Territory's tourism industry and boosts our visitor numbers and economy.

Key enablers to support tourism include increasing aviation and road transport access, improving accommodation options, tourism products and infrastructure. Improved tourism infrastructure results in more jobs for Territorians.

As the expectations of the modern traveller grows, the Territory needs to continue investing in tourism infrastructure, particularly to appeal to markets like China.

The non-stop international air route from Shenzhen to Darwin began in May 2018 and was a game changer for attracting more international visitors.

A National Aboriginal Art Gallery is planned for Alice Springs and the inclusion of an Arts Trail will link art galleries across the Territory. These infrastructure projects will see the Territory become the leading centre for Aboriginal art and culture in Australia.

A new luxury hotel in Darwin will attract an international luxury visitor market and more short term commercial accommodation developments will increase room numbers Territory-wide.

The Northern Territory Government announced a record \$103 million Turbocharging Tourism stimulus package in February 2018 to attract more visitors and create local jobs, including an extra \$56 million for new tourism infrastructure. An additional \$62.8 million was announced in May 2019 to continue the Turbocharging Tourism initiative.

Investment in infrastructure is crucial to support tourism by:

- considering visitor access in transport planning
- supporting the growth of sustainable cruise ship and aviation services
- ensuring accommodation supports and attracts growth in visitor demand
- supporting major and regional events and festivals to increase visitors and create jobs in local and regional communities
- allowing for infrastructure upgrades for roads to our parks and reserves to increase visitor access and numbers.

PRIORITY PROJECTS

- **Westin Luxury Hotel** – \$200 million hotel at Darwin Waterfront.
- **National Aboriginal Art Gallery** – in Alice Springs to house a national Aboriginal art collection
- **Turbocharging Tourism** – \$56.24 million for new tourism infrastructure

Key objectives

Grow tourism value by increasing the Territory's desirability as a travel destination to increase visitor numbers and length of stay.

Address supply constraints in accommodation, facilities and workforce to cater for visitor demand.

Consider visitor access when planning road, port and aviation infrastructure and services.

Improve visitor experience by developing new experiences that reflect the visitor needs, including active recreation.

Grow the visitor economy by building on authentic Aboriginal cultural experiences.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Enhance recreational fishing infrastructure across the Territory^ - artificial reefs - fishing platforms		✓			50	10	17			Enhance liveability by improving access to recreational fishing areas
Parks and Wildlife remote parks - waste management facilities - recycling - shade infrastructure		✓			12				•	Improve waste management and recycling systems in remote parks
Regional and remote gallery enhancements connecting the Arts Trail^		✓			6	2	•	•		Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities
Remote park visitor sites - fire mitigation works and strategic water fill points		✓			6			•		Improve fire management practices
Mountain Bike (MTB) new experiences		✓			2			•		Develop new visitor experiences and encourage visitors to stay longer in the Territory
Remote parks - hybrid power systems		✓			1			•		Operational budget savings and reduced carbon emissions by reducing diesel power consumption


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^ Indicates projects that display in two sectors.

TURBOCHARGING TOURISM



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
National Aboriginal Art Gallery^		✓			50	50	•			 Exhibit and preserve Aboriginal art and culture
Connellan Airport at Yulara - upgrade runway, taxiway, apron and runway lighting	✓			✓	27	27				 Further develop and expand the tourism industry supported by Northern Australia Infrastructure Facility (NAIF)
Tjoritja/West MacDonnell National Park^ - Red Centre adventure cycling track - Visitor experience centre - Ormiston camping		✓		✓	20	12		•	•	 Expand tourism product to develop the economy and increase liveability
National Indigenous Cultural Centre^		✓			20		20			 Exhibit and preserve Aboriginal art and culture
Alice Springs CBD Revitalisation (part of City Deals*)^ - meeting places - shading and water play area	✓	✓	✓		15	15	•			 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Alice Springs Desert Park visitor experience development		✓		✓	12			•	•	 Enhance the visitor experience
Alice Springs Telegraph Station visitor experience development		✓			10		1	•	•	 Improve amenity for the community and visitors
Central Australia - new multi-day walking track^		✓			6	6				 Expand tourism product to develop the economy and increase liveability
Ellery Creek Big Hole upgrade and seal access road and carpark		✓			5			•		 Improve access and the visitor experience
Upgrade Hermannsburg Historical Precinct		✓			3	3				 Expand tourism product to develop the economy and increase liveability
Larapinta Trail realignments and facilities		✓			3	1		•	•	 Improve facilities and visitor experience on an iconic hiking track

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Alice Springs Tourism/Commercial Development		✓		✓	•	•	•			 Provide additional accommodation and tourism products in Alice Springs 
Alice Springs Airport – Runway 12/30 overlay – RPT apron improvements	✓			✓	•	•				 Improve visitor safety at key tourism destination supported by NAIF 
Expand visitor accommodation across the remote regions		✓	✓	✓	•			•		 Promote Aboriginal tourism 
Barkly Region										
Barkly Region development		✓		✓	12				•	 Increase tourist attractions for travellers on the Stuart Highway 
Tennant Creek Art and Culture upgrades - connecting the Arts Trail [^]		✓			10	10	•			 Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities 
New visitor experiences in Tennant Creek, including gold rush and ore mining interpretive displays		✓			5	5				 Celebrate the Territory's history by establishing new gold rush and ore mining interpretive displays 
Tennant Creek Parks and Garden – new caravan park and upgraded facilities	✓		✓		4			•		 Improve council services 
Barkly Streetscape Project		✓	✓		3	1	2			 Improve the visual amenity, lighting and security of Patterson Street 
Lake Mary Anne upgrade			✓		3				•	 Create a safe and enjoyable place for people to meet and relax 
Stuart Highway Tennant Creek – tourism entry statements – improve drainage		✓			2	2				 Create a sense of place 

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
Judbarra / Gregory National Park - Matt Wilson campground development - Visitor Interpretation Centre - Gregory Cave / Limestone campground - Victoria River visitor hub - Keep River development		✓			39		1	•	•	 Improve amenity for community and visitors 
Leliyn (Edith Falls) master plan implementation		✓		✓	34	1		•	•	 Enhance the visitor experience and increase length of stay in the Territory 
New Riverside hotel		✓		✓	20		•	•		 Enable growth in the tourism and corporate markets 
Elsy National Park upgrades		✓			17		1	•	•	 Enhance the visitor experience and increase length of stay in the Territory 
Nitmiluk National Park visitor experience upgrades - Jatbula Trail - Nitmiluk Trail		✓		✓	15			•	•	 Improve amenity for the community and visitors 
Katherine Art Gallery extensions - connecting the Arts Trail^		✓			10	10	•			 Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities 




Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
Katherine Railway Bridge Function Centre - restaurant - upgrade park surrounds		✓	✓	✓	10			•		Enable economic development and enhanced visitor experience
Pine Creek tourism facilities and walking trails		✓	✓		6			•	•	Increase tourist attractions for travellers
Revitalise Katherine CBD - Develop green spaces - Wetlands on the Terrace - Cenotaph function site		✓	✓	✓	5	•	•		•	Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Limmen National Park Visitor Facility enhancement		✓			4			•		Improve visitor facilities to encourage extended visitor stays in the Territory
Art site access improvements - Limmen National Park - Judbarra National Park - Keep River National Park		✓			3			•	•	Improve accessibility and improve visitor experience in parks
Nitmiluk National Park - new tour boat jetty		✓			2	2				Improve visitor amenity and safety at Nitmiluk Gorge
Nitmiluk Essential Services upgrade		✓			2			•		Essential service to support enhanced tourism opportunities and potential private investment
Borroloola combined government centre and tourist centre			✓	✓	2	•				Attract local and interstate tourists
East Arnhem										
Arnhem Art Gallery extensions - connecting the Arts Trail [^]		✓			10	10	•			Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Future of Jabiru and Kakadu^ <ul style="list-style-type: none"> - new power station - mobile and Wi-Fi services - Bininj Resource Centre - road and campground upgrades - government services hub - multi-use medical centre - education precinct - World Heritage Interpretive Centre - luxury hotel accommodation - asbestos management 	✓	✓		✓	446	•		•	•	 Re-position Jabiru as a tourism and regional services hub, preserving Aboriginal art and culture as the gateway to Kakadu National Park
Litchfield National Park <ul style="list-style-type: none"> - accommodation resort 		✓		✓	30				•	 Expand accommodation options in Litchfield National Park, remove congestion and extend the length of stay
Litchfield National Park <ul style="list-style-type: none"> - Central Valley stage 1 - East Reynolds visitor experience upgrades and adventure hub 		✓			17	17	•			 Expand tourism product to develop the economy and increase liveability



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Tjuwalyin (Douglas) Hot Springs		✓		✓	10				•	 Improve amenity for community and visitors 
Back Country Hunting area - access roads, camp sites, ablution facilities, directional and safety signage		✓			9				•	 Improve accessibility to recreational hunting 
Fogg Dam Conservation Reserve - works to dam wall		✓			4			•	•	 Develop and secure Fogg Dam as the premier site for birdwatching close to Darwin to grow the bird watching tourism sector 
Develop Northern Australian Rail Trail to encounter cultural and heritage sites between Adelaide River, Batchelor and Snake Creek siding		✓			4			•		 Develop a rail trail tourist attraction along the old Northern Australia Railway route with the first stage between Batchelor and Adelaide River 
Garig Gunak Barlu National Park walking track		✓		✓	2				•	 Improve accessibility and improve visitor experience in parks 
Butterfly Gorge Campground and access track extensions		✓			1				•	 Improve accessibility and improve visitor experience in parks 
Tiwi Island waterfront and parkland beautification	✓	✓			1	1				 Improve amenity for the community and visitors 
Palmerston and Litchfield										
Darwin River Tavern extension				✓	•	•				 Improve amenity for community and visitors 

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Darwin CBD Revitalisation (part of City Deals*)^ - greening and cooling initiatives (including Cavenagh Street pilot) - State Square underground car park - activate laneways - Art Gallery at State Square	✓	✓	✓	✓	100+	32	•			 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Waterfront Precinct - new Westin luxury hotel - Skywalk to The Esplanade		✓		✓	200	•	•			 Support growth in tourism, convention and corporate travel markets
Darwin CBD - Daly Street - 24 storey motel with restaurant and car parking				✓	40		•	•		 Increase availability of quality tourist and corporate accommodation in the CBD
Cullen Bay revitalisation		✓		✓	20	10		•	•	 Reimagining Cullen Bay's identity as a family oriented village
George Brown Darwin Botanic Gardens^ - new plant display house - essential services, path network and irrigation upgrade - ephemeral wetland with boardwalk - new entrance and carpark - Friends of the Gardens work area upgrade		✓			19				•	 Expand tourism product to develop the economy and increase liveability



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Activation of Darwin CBD - Austin Lane, Smith Street and Knuckey Street streetscape projects - playground enhancements		✓	✓		7	4	•			 Enhance safety, accessibility, connectivity and amenity 
Buffalo Creek upgrades		✓			6			•	•	 Improve access to recreation and fishing areas 
Shoal Bay Hunting Reserve		✓			6			•	•	 Improve accessibility to recreational hunting 
Bagot Road entry statement and landscaping		✓			3	3				 Create a sense of place 
Darwin International Airport – security screening enhancements				✓	•	•				 Improve visitor safety at key tourism destination 
Larrakia Cultural Centre^		✓		✓	•			•	•	 Exhibit and preserve Aboriginal art and culture 
Darwin International Airport Master Plan - light industrial complex - warehousing / logistics precinct - multi-level car park - terminal expansion - taxiway system enhancements				✓	•				•	 Respond to growth in the aviation sector 



Energy and Minerals



The Northern Territory's access to oil and gas and extensive deposits of world class mineral resources ensures the mining and energy sectors dominate our economy.

The Territory has extensive deposits of bauxite, uranium, zinc, lead, copper, phosphate, manganese, gold, silver, diamonds and rare earths. There are currently six major mines and six smaller mines operating in the Territory, with 16 projects in the approvals process and numerous other projects being evaluated. The 16 projects in the approval process have a capital expenditure estimated at \$7 billion in development.

As outlined in the NT Government's Territory Critical Minerals Plan, with the increasing production of renewable energy technologies, demand is expected to increase for renewable-energy related minerals.

In the 2017-18 financial year, the value of the minerals sector alone was \$4.49 billion. This is a record production value for the Northern Territory and is a 24 per cent increase on the previous year – representing 16.4 per cent of the Territory's gross state product (GSP).

The Territory is developing from supplying raw mineral commodities to downstream processing of mineral commodities. New projects such as Nolans Rare Earths and Phosphate Project and the Mount Peake Vanadium and Titanium Project both incorporate downstream processing plants in the Territory.

The Territory has access to more than 30 trillion cubic feet of offshore gas reserves and potentially much larger onshore gas resources. With the lifting of the hydraulic fracturing (of onshore unconventional gas) moratorium in 2018 and the introduction of new legislation in March 2019, the exploration and

development of the Beetaloo Basin in the coming years will be a major contributor to the Territory economy.

The 450 kilometre Tanami Gas Pipeline (\$346 million) and 622 kilometre Jemena Gas Pipeline (\$800 million) from Tennant Creek to Mt Isa were both constructed during 2018 and commissioned in early 2019.

The proposed future rail line between Tennant Creek and Queensland, rail sidings near mining activities and rail spurs to regional centres will provide better access and attract more business and industry development.

PRIORITY PROJECTS

- **New commodity projects** – lithium (Grants), copper (Jervois), rare earths (Nolans), vanadium and titanium (Mount Peake), salt and salt products (Chandler), and phosphate (Ammaroo).
- **Tennant Creek gold ore common use processing facility to boost mining operations in the region.**
- **Resourcing the Territory initiative** - strategies to underpin the long-term sustainability of the Territory's resources sector.

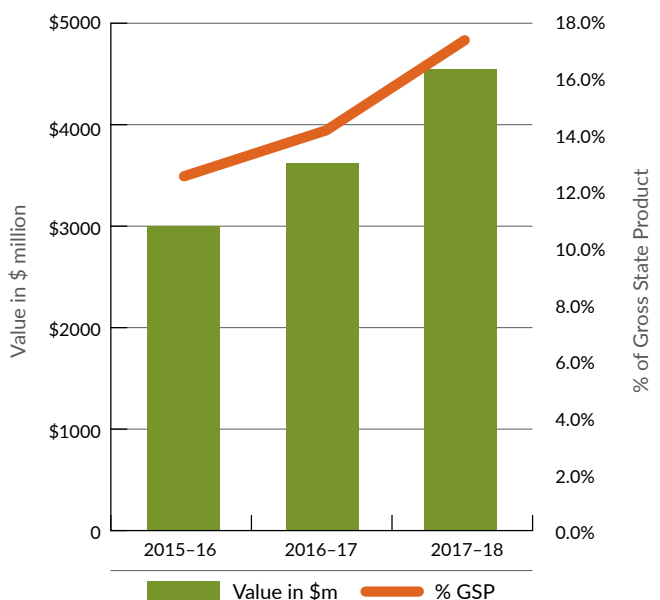
Mining and manufacturing sector

16.4% of GSP

9 211 people employed



VALUE OF THE MINERALS SECTOR (NT DATA)



Key objectives

Make the Territory the preferred destination for resource investment and development.

Regulate and administer tenure and land access for exploration, mining and production of minerals and petroleum.

Enhance the Territory's wealth through responsible stewardship of its minerals and energy resources.

Attract local and international business investment partnerships for the mining and resources sector.














Support economic development and participation for Aboriginal Territorians.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Resourcing the Territory initiative		✓			26	6	6	•		  Underpin the long-term sustainability of the Territory's resources sector
Central Australia										
Nolans Mine – open pit mine with intermediate processing facility and final separation plant using new technology to produce rare earth products and phosphoric acid				✓	1006	•	•	•		  Meet global demand for critical minerals used for new and emerging technologies
Chandler Salt Mine - develop underground mine, on-site salt and fertiliser processing plant and underground storage facilities				✓	676			•	•	  Supply commercial high-grade halite and provide a geological repository facility to offer long-term storage, treatment and recovery of waste
Mt Peake Mine - stage 1 - develop new open pit mining and processing operation, including mine camp, power station and rail siding				✓	236	•	•	•		  Meet global demand for critical minerals used for new and emerging technologies
Jervois Mine (KGL Resources Ltd) - re-open old mine with open cut pits, underground mining and on-site processing				✓	190	•	•			  Meet global demand for critical minerals used for new and emerging technologies
Molyhil Mine - develop underground mine and on-site processing plant				✓	69		69			  Meet global demand for minerals
Central Petroleum - Mereenie facilities upgrade				✓	12	•				  Improve efficiencies to meet demand
Ti Tree Airstrip upgrade and new terminal supporting Mt Peake Mine		✓		✓	2			•		  Meet global demand for minerals
Newmont Tanami - stage 2 gold mine expansion - shaft development, headframe, process plant upgrade and bore field upgrade				✓	•			•	•	  Meet global demand for minerals

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
Origin - Beetaloo joint venture development project				✓	1000+		•	•	•	 Enable economic development 
Pangaea - Beetaloo Basin development (The NT Way)				✓	1000+		•	•	•	 Enable economic development 
Ammaroo Phosphate Mine - stage 1 - new mine with open cut pits, crushing and processing plant for direct shipping ore				✓	368	•	•	•		 Meet global demand for minerals 
Wonarah Phosphate Mine - stage 1 - open cut mine and on-site superphosphate processing				✓	350+				•	 Meet global demand for minerals 
Ammaroo Phosphate Mine - stage 2 - mine expansion to double production				✓	200				•	 Expand production to meet global demand for minerals 
Tennant Creek multi-modal facility		✓			•			•	•	 Further develop the sector - subject to outcomes of feasibility studies 
Tennant Creek gold ore processing facility				✓	•	•	•			 Develop a common user processing facility to support small scale, high value mines in the region 
Katherine Region										
Mt Todd Mine - re-open open cut pit with new on-site processing plant and power station				✓	1190		•	•		 Meet global demand for minerals 
Santos - McArthur Basin project				✓	1000+		•	•	•	 Enable economic development 
Sill 80 Ilmenite project - upgrade process plant and water supply				✓	•	•				 Meet global demand for critical minerals used for new and emerging technologies 
Roper Valley Iron Ore Project - open cut iron ore mining, on-site processing and direct shipping ore				✓	•		•	•	•	 Meet global demand for minerals 

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Groote Eylandt - South 32 - GEMCO - eastern leases				✓	160			•		 Enable access to additional ore to meet global demand for minerals
Remove infrastructure and rehabilitation of the Gove alumina refinery				✓	•		•	•		 To meet mine site environmental remediation requirements
Top End Rural										
Grants Lithium Project - open cut mine with on-site processing for a spodumene concentrate				✓	73	•	•			 Meet global demand for critical minerals used for new and emerging technologies
Hayes Creek Project - PNX Metals re-open Mt Bonnie mine and Iron Blow mine - construct processing facility at Fountain Head mine site				✓	58		58			 Meet global demand for minerals
Toms Gully - re-open underground mine and on-site processing plant				✓	35	35				 Meet global demand for minerals
Rum Jungle Creek South - repair cover system and drainage structures		✓			5	•	•			 Maintain existing infrastructure
Ranger mine rehabilitation - remove infrastructure				✓	•		•	•	•	 Rehabilitate the Ranger mine in consultation with stakeholders
Palmerston and Litchfield										
Darwin Clean Fuels project				✓	1200		•	•		 Further develop the sector - subject to outcomes of feasibility studies
Middle Arm Metals Processing Facility - stage 2 - expansion to double production				✓	842				•	 Meet global demand for critical minerals used for new and emerging technologies
Middle Arm Metals Processing Facility - stage 1 - develop titanium, vanadium and iron processing facility				✓	614		•	•		 Enable production of high purity titanium, vanadium and iron products to meet global demand for minerals
Coogee methanol plant at Middle Arm				✓	500		•	•		 Further develop the sector - subject to outcomes of feasibility studies
Kittyhawk micro LNG project at Middle Arm				✓	100		•	•		 Further develop the sector - subject to outcomes of feasibility studies
Darwin LNG Battery project				✓	•	•			•	 Improve energy sustainability of the LNG facility

Defence and Related Industries



Defence related industries are one of the most significant contributors to the Northern Territory's economy.

Our location in the Indo-Pacific region positions Darwin as the regional hub for Australia's international engagement. Defence creates direct and indirect jobs, investing in infrastructure and generating demand for local goods and services.

Defence accounted for 8.2 per cent of the Territory's gross state product in 2017–18, with spending reaching \$2.1 billion.

The Territory hosts a large number of major defence sites, including RAAF Base Darwin, Larrakeyah Barracks and HMAS Coonawarra in Darwin, Robertson Barracks in Palmerston, RAAF Base Tindal near Katherine and the Joint Defence Facility Pine Gap near Alice Springs, as well as four training areas.

Defence contributes significantly to the Territory's population and quality infrastructure for hospitals, health centres, schools and sport and recreational facilities are crucial to recruit and retain defence personnel.

Adequate defence and civil facilities and infrastructure with transport links between bases are necessary to achieve success in military and humanitarian operations in our region.

Access to airport, port and road infrastructure is critical for defence to improve its efficiency and capability in the Territory and interoperability with our international partners.

The Territory needs to maintain and expand its infrastructure and industrial capacity to support the operations of the Australian Defence Force and our allies in the Northern Territory and the Asia Pacific Region. This includes new and improved infrastructure to support the United States Force Posture Initiative agreement.

PRIORITY PROJECTS

- **Larrakeyah Barracks / HMAS Coonawarra upgrade** – upgrade to dock larger visiting naval ships.
- **Common User Ship Lift Facility** – construct the facility to support defence and other industries.
- **RAAF Base Tindal Air Combat Facilities Project** – F-35A Joint Strike Fighter infrastructure.
- **United States Force Posture Initiatives (USFPI)** - Australia and the United States investing in infrastructure and facilities.

Key objectives





Maximise the economic benefit from defence opportunities in the Territory.

Use local industry in the supply chain for defence infrastructure projects.

Attract defence industry corporations to establish national and regional headquarters in Darwin.

Support local jobs and industry while achieving value for money for defence projects.

Increase defence capacity and capability in northern Australia for security cooperation in the Indo-Pacific region.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
United States Force Posture Initiatives (USFPI) Northern Territory training area upgrades - Bradshaw Field, Kangaroo Flats, Mt Bunday and Robertson Barracks*	✓				490		•	•		 Upgrade infrastructure to enhance defence operations 
Central Australia										
Jindalee Operational Radar Network facilities upgrades	✓				45	•				 Enhance defence capability 

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* Projects are indicative only and remain subject to departmental, government second pass and parliamentary approvals.

^ Indicates projects that display in two sectors.

To support the United States Force Posture Initiatives, Australia and the United States will be investing around \$2 billion (AUD) in defence infrastructure and facilities at existing defence sites in the Northern Territory. Sites include RAAF Base Darwin, Robertson Barracks and RAAF Base Tindal, and training facilities at Kangaroo Flats, Bradshaw Field and Mt Bunday.



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019- 20	2020- 21	Medium Term (3-5 Years)	Longer Term (6- 10 Years)	
Katherine Region										
RAAF Base Tindal - KC 30 extend, strengthen and widen runway and taxi ways*	✓				521	•	•	•		 Upgrade infrastructure to enhance defence operations 
RAAF Base Tindal - support new air combat capability joint strike fighter (JSF35)	✓				473	•				 Enhance defence capability 
RAAF Base Tindal redevelopment - stage 6*	✓				253	•	•	•		 Enhance defence capability 
Delamare Range facilities - Project Growler - communications and guidance	✓				217	•				 New weapon system to replace current system to enhance defence operations 
MQ-4C Triton Forward Operating Base (facilities and infrastructure)*	✓				100			•		 Enhance defence capability 
Palmerston and Litchfield										
USFPI Robertson Barracks - base support infrastructure*	✓				216		•	•		 Enhance defence capability 
Robertson Barracks - mid-term refresh*	✓				50			•		 Upgrade infrastructure to enhance defence operations 

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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Larrakeyah Barracks / HMAS Coonawarra J0109/N2238 - new outer wharf, infrastructure upgrades, NORFORCE redevelopment	✓				472	•	•	•		  Enhance infrastructure to support redevelopments
Ship Lift Facility^	✓	✓			400		•	•		  Provide a common user facility for the general maritime sector and Department of Defence
RAAF Base Darwin - AIR7000 - P-8A Poseidon Forward Operating Base	✓				161	•	•			  Enhance defence aerospace capability
RAAF Base Darwin - National Aircraft Pavement Maintenance Program*	✓				160			•		  Maintenance to maximise existing infrastructure
HMAS Coonawarra - N2263 - Sea1180 facilities and infrastructure to support and sustain the Offshore Patrol Vessel (OPV)*	✓				100		•	•		  Enhance defence capability to handle larger vessels
RAAF Base Darwin - mid-term refresh*	✓				55			•		  Upgrade infrastructure to enhance defence operations
RAAF Base Darwin - Air 5431 - air traffic control - construct new multi-level facilities and sensor equipment buildings	✓				42	•				  New infrastructure to support introduction of new air traffic control system
Larrakeyah Barracks and Robertson Barracks - new and upgraded health centre	✓				31	•				  Enhance facilities for defence personnel

* Projects are indicative only and remain subject to departmental, government second pass and parliamentary approvals.



Education and Training



Early learning and school education is essential to providing the best start in life for every Territory child.

Territory children can access high quality education services through government, non-government, homeland and distance learning centres, higher education, special schools and early childhood and family centres.

Every child needs the opportunity to engage, grow and achieve through a strong education system.

Education requires a system-wide approach and is closely linked to housing, health and social infrastructure. With a solid education, our children can learn the skills needed to get a job and contribute to building our economy.

Multi-faceted education delivery requires new infrastructure, including child and family centres, international boarding facilities and middle years schooling.

New and improved school infrastructure creates and enhances new learning environments for our children.

International education is a new priority for the Territory and there is a need to upgrade university

infrastructure to international standards to remain competitive and attract academics, international and domestic students and industry partners. The development of a university campus in the Darwin CBD will increase the capacity to deliver quality tertiary education.

Increasing purpose built student accommodation and private rental market properties will encourage students and investment opportunities and grow our international education sector.

Investment is also needed to replace and upgrade ageing infrastructure across government and non-government facilities.

PRIORITY PROJECTS

- **Barkly Regional Deal** – student boarding accommodation.
- **Education and Civic Precinct** – including a new Charles Darwin University city campus.
- **Zuccoli Primary School** – new government primary school for up to 520 students with multi-purpose hall and oval.
- **Building Better Schools** – provide funding for every Territory school for education focused upgrades.
- **International boarding facility at Haileybury Rendall School.**
- **Homeland Schools** – upgrade existing learning areas.

2 675 International students studying in the Northern Territory*.

Student average expenditure p/a

\$37 400



**as at December 2018*

Key objectives

Every child has the opportunity to engage, grow and achieve.

Quality teaching through coaching and mentoring to build teacher and school leader capability.

Empower communities to be involved in the education of children.

Establish quality standards for school performance to foster child and student learning and growth.

Target investment to develop and implement school improvement methodology and service delivery models.

Deliver services to children to maximise their educational outcomes and wellbeing from early to senior school years.




Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Territory schools - air-conditioning mechanical and electrical upgrades		✓			50		5	•	•	 Improve infrastructure to support student enrolments
New transportable buildings - classrooms - teacher housing		✓			7	2	1	•		 New infrastructure to support educational programs and services
Child care centre upgrade program		✓			7			•	•	 Maintain ageing infrastructure to continue delivering quality child care
Rooftop photovoltaics for Territory schools		✓			5	2	2			 Increase renewable energy generation
Homeland schools repairs		✓			4	1	1	•		 Enable the continued delivery of quality education and support student enrolments
Building Better Schools - non-government schools		✓			3	3		•	•	 Improve infrastructure to support student enrolments
Central Australia										
Kilgariff - New preschool and primary school for 500 enrolments		✓		✓	50				•	 Provide new infrastructure to support educational programs and services
New school infrastructure - Alcoota, Braitling, Mutitjulu, Papunya, Ross Park, Willowra, Yuelamu, and Yuendumu		✓			18			•	•	 Improve infrastructure to support student enrolments
Alice Springs School of the Air - new school with tourist facility		✓			15				•	 Upgrade infrastructure to support educational programs and tourism needs
Upgrade school infrastructure - Amanbidji, Ampilatwatja, Atitjere, Gillen, Haasts Bluff, Imanpa, Mt Liebig (Watiyawanu), Ntaria, Nyirripi, Titjikala, Wallace Rockhole and Wilora (Stirling)		✓			7		2	•		 Improve infrastructure to support student enrolments
Industry Training Hub	✓				5		5			 Support young people into employment
Ti Tree School - Integrated Early Learning Facility		✓			3			•		 Improve infrastructure to support student enrolments

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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
New and replacement school infrastructure - Ali Curung, Alpururulam, Murray Downs and Tennant Creek	✓	✓			17			•	•	 Enable the continued delivery of quality education and support student enrolments
Barkly Regional Deal - student boarding accommodation	✓	✓	✓		10	10				 Support education options within the region
Elliott School - Integrated Early Learning Facility		✓			3			•		 Improve infrastructure to support students
Tennant Creek High School - new building for STARS and Clontarf		✓			2	2				 Provide new infrastructure to support educational programs and services
Upgrade school infrastructure - Canteen Creek, Epenarra, Mulga Bore and Walungurru		✓			2		1	•		 Improve infrastructure to support educational outcomes



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
Kintore Street School - new special school from preschool to year 12		✓			25				•	 Relocate to non-flood area with new and improved infrastructure to support educational programs and services
Katherine High School Master Plan - Science, Technology, Engineering, Arts and Mathematics (STEAM) facility		✓			11				•	 Provide new and improved infrastructure to support educational programs and services
Upgrade school infrastructure - Barunga, Beswick, Borroloola, Bulla, Bulman, Casuarina Street, Clyde Fenton, Jilkminggan, Lajamanu, Robinson River and Timber Creek		✓			10		1		•	 Improve infrastructure to support student enrolments
Katherine East Neighbourhood Centre - education facilities - child care centre			✓	✓	7	•	•	•		 Support education options within the local area
Barunga - vocational child care facility	✓			✓	3				•	 Deliver quality child care services
East Arnhem										
Shepherdson College Master Plan - expand preschool for Families as First Teachers (FaFT) - replace elevated classrooms and canteen - replace special education classroom		✓			11				•	 Provide new and improved infrastructure to support educational programs and services
Replace school infrastructure - Langarra Homelands, Numbulwar, Rorruwuy Homelands and Umbakumba		✓			10		3		•	 Provide new and improved infrastructure to support educational programs and services
Milingimbi School Master Plan - Integrated Early Learning Facility - replace administration building, library and classrooms		✓			8		•	•	•	 Improve infrastructure to support children and families
Yirrkala School Master Plan - new classroom block - upgrade middle school and specialty areas		✓			6		•	•		 Improve the built environment to support educational programs and services
Upgrade school infrastructure - Alyangula, Angurugu, Gapuwiyak and Ramingining		✓			4				•	 Provide improved infrastructure to support educational programs and services
Nhulunbuy Primary School - resurface basketball courts		✓			1	1			•	 Provide improved infrastructure to support educational programs and services

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Woolianna School - relocate school - teacher housing in Daly River		✓			15			•	•	Enable the continued delivery of quality education and support student enrolments
Upgrade school infrastructure - Adelaide River, Batchelor Area, Gunbalanya, Maningrida, Minjilang, Nganmariyanga, Peppimenarti, Pirlangimpi and Waruwi		✓			11			•	•	Improve infrastructure to support educational programs and services
Batchelor Outdoor Education - rejuvenate amenities and accommodation and upgrade the single persons quarters and cycle tracks		✓	✓	✓	4	1	1			Rejuvenate facilities available to all schools for outdoor education
Nganmariyanga School - Integrated Early Learning Facility		✓			3			•		Improve infrastructure to support children and families
Palmerston and Litchfield										
Zuccoli Primary School - government preschool and primary school with shared facilities for 520 enrolments		✓			47	42	•			Provide new infrastructure to support educational programs and services in response to population growth in the area
Primary School infrastructure Master Plan - Bees Creek, Driver, Durack, Forrest Parade and Humpty Doo		✓			21			•	•	Provide new infrastructure to support educational programs and services
Taminmin College Master Plan - multi-purpose community hall		✓			15			•		Improve infrastructure to support student enrolments
Palmerston College Master Plan - Rosebery campus new science lab - senior campus student atrium presentation space - Rosebery campus multi-purpose development centre		✓			8		1	•	•	Improve infrastructure to support early years students
MacKillop Catholic College - VET training centre - performance auditorium - sports stadium	✓			✓	6	2	2	•		Provide new and improved infrastructure to support educational programs and services
Berry Springs - child care centre		✓	✓	✓	3	•				New infrastructure to support children and families

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Education and Civic Precinct - including a new Charles Darwin University campus in the CBD (part of City Deals*)^	✓	✓	✓	✓	400+		•	•		 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Berrimah - new preschool and primary school for 500 enrolments		✓		✓	50				•	 New infrastructure required to support educational programs and services
Muirhead North - new preschool and primary school for 450 enrolments		✓		✓	50				•	 Provide new infrastructure to support educational programs and services
Primary School infrastructure Master Plan - Alawa, Nakara, and Nightcliff - Leanyer, Moil, Wagaman and Wulagi - Larrakeyah, Ludmilla, Parap and Stuart Park		✓			48			•	•	 Provide new and improved infrastructure to support educational programs and services
Casuarina Senior College Master Plan - library refurbishment - technology makerspace - upgrade Block E - upgrade Block A - multi-purpose pavilion		✓			25	1		•	•	 Provide new and improved infrastructure to support senior educational programs and services
Darwin Middle School - multi-purpose enclosed pavilion with performing arts		✓			16	12				 Provide new infrastructure to support educational programs and services
Haileybury Rendall School - international boarding school facility	✓				10		10			 New infrastructure to support student enrolments and educational outcomes
Middle School infrastructure Master Plan - Dripstone - Nightcliff		✓			7			•	•	 Upgrade ageing infrastructure to current standards to support student education
Darwin High School Master Plan - refurbish Block A and B		✓			5				•	 Improve infrastructure to support educational priorities
Bullocky Point Education Precinct - landscape Master Plan		✓			2	2				 Landscaping to support educational outcomes at Darwin Middle and High Schools
Wanguri Primary School - replace roof and associated works		✓			1	1				 Improve infrastructure to support educational outcomes

Electricity



Affordable and reliable access to electricity is essential to power our communities and the Northern Territory's economy.

While natural gas generates the main electricity supply for our main regional centres – Darwin, Katherine, Tennant Creek and Alice Springs – electricity for remote communities is generated by several different sources. Electricity is sourced from isolated power stations using diesel, diesel-solar, gas energy sources or from a major electricity network.

The Blacktip gas field in the Joseph Bonaparte Gulf is the main source of natural gas for the Territory generation sector.

Good electricity infrastructure, which can often be impacted by weather, is crucial for geographically isolated environments across the Territory. Remote and regional communities not connected to major gas-fired electricity networks depend heavily on expensive diesel for electricity generation.

The transition to a renewable energy future is a key challenge, with a Northern Territory Government target for 50 per cent of our electricity to be from renewable sources by 2030. Helping achieve the Territory's renewable target is the Solar Energy Transformation Program (SETuP), a recently completed \$59 million initiative to

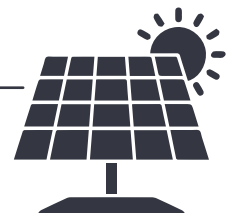
integrate solar PV with existing diesel-fuelled power stations, creating hybrid generators in 25 remote communities. The initiative is expected to reduce the use of diesel by 15 per cent, approximately 94 million litres over the life of the program.

The Northern Territory Government is a signatory to the Council of Australian Governments' Australian Energy Market Agreement. The government is transitioning to the National Electricity Rules administered by the Australian Energy Regulator. Power and Water began full operation under the new regime and is committed to long term efficient investment in electricity networks and delivering energy services in the interests of consumers.

The electricity network capital investment program aims to meet demand growth and maintain current service standards in a safe, reliable and cost effective manner.

NT dwellings with solar

16% solar PV* **22%** solar hot water



* as at July 2019

PRIORITY PROJECTS

- **Substation works**
 - Berrimah Zone replacement
 - Pine Creek 66kV replacement
 - Wishart Zone Augmentation.
- **Alice Springs**
 - Distribution pole replacement program
 - Install new Sadadeen 11kV switchboard.
- **Major expansion of solar arrays at Alice Springs Airport and Darwin International Airport Precinct.**
- **Tiwi Island – grid connection initiative between communities and regional power station.**
- **Wadeye – grid connection between communities – Palumpa and Peppimenarti.**
- **Solar farms in Katherine, Batchelor and Manton Dam.**

Key objectives

Plan, build and maintain safe, cost efficient and reliable electricity infrastructure to provide services.

Target 50 per cent of our electricity from renewable sources by 2030 and reduce greenhouse gas emissions.

Manage the purchase, transport and sale of gas to electricity generators and other major gas users.

Future proof the Northern Territory by planning for and building electricity infrastructure to meet future supply demand.



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Power Networks - Outage Management System - minor new works - repairs and maintenance		✓			759	94	81	•	•	 Maintain service levels and meet local demand
Indigenous Essential Services - minor works generation projects		✓			90	9	9	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
Minor works in minor centres		✓			11	1	1	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
Earthing remediation at all sites		✓			3	1		•		 Growth in demand, compliance, asset renewal and improve service efficiency
Central Australia										
Sadadeen Switchboard - install 11kV - replace 22kV		✓			24	•		•	•	 Compliance, asset renewal and improve service efficiency
Power Network upgrades - corroded poles - transformers - switching stations		✓			20	2	3	•	•	 Compliance, asset renewal and improve service efficiency
Yulara Power Station - Alternative Energy System		✓			11	6	5			 Sustainable long term power generation solution for Yulara
Ron Goodin Power Station decommission, disposal and rehabilitation		✓			5		2	•		 Site rehabilitation
Owen Springs Power Station - stage 2 - fuel farm back-up power supply - major maintenance program - Gilbarco fuel system upgrade		✓			4	1	1	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
Alice Springs Airport - major expansion of the solar array	✓			✓	•		•	•		 Improve energy efficiency by increasing renewable energy supported by Northern Australia Infrastructure Facility (NAIF)

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^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019- 20	2020- 21	Medium Term (3-5 Years)	Longer Term (6- 10 Years)	
Barkly Region										
Sun Cable's Australia-Singapore Power Link - 10 gigawatt solar farm - 20-30 gigawatt hour storage facility				✓	20000			•	•	Supply long term, competitive, stably priced renewable electricity to the Territory and Singapore markets
Tennant Creek Power Station engine exchange and alternator replacement		✓			5				•	Growth in demand, compliance, asset renewal and improve service efficiency
Katherine Region										
Pine Creek - replace 66kV and 22kV Zone Sub Station assets		✓					•	•		Compliance, asset renewal and improve service efficiency
Power Network and Zone Substation upgrades		✓			5	1	2	•		Growth in demand and improve service efficiency
Katherine Hospital - Solar power		✓			1		1			To reduce expenditure on electricity costs
Top End Rural										
Solar farms - Katherine, Batchelor and Manton Dam				✓	43	43				Support energy efficiency by increasing renewable energy
Wagait - replace centre yard zone substation and undersea cable		✓			14				•	Compliance, asset renewal and improve service efficiency
Tiwi Interconnect		✓			11	7				Growth in demand, compliance, asset renewal and improve service efficiency
Wadeye Interconnect - Peppimenarti to Palumpa		✓			6	1	4			Growth in demand, compliance, asset renewal and improve service efficiency
Power network transformer upgrade - Cosmo Howley		✓						•		Compliance, asset renewal and improve service efficiency



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Palmerston and Litchfield										
Channel Island Power Station upgrades - 4, 5, 6 and aux transformer protection - Demineralised Water Treatment Plant - C1 - 5 Fire Protection - Asset replacement - Safety Management System - Critical Pumps replacement - Cable replacement - Cooling tower replacement - Lv/Mv Switchboard - Controls - second gas pipeline - sulphuric acid bund refurbishment - separation of Nodes - 132kV GIS and control room upgrade (PWC)		✓			238	11	18	•	•	 Growth in demand and improve service efficiency
Power network and substation upgrades - Archer, Humpty Doo, Palmerston, Strangeways and Weddell		✓			26	2	1	•	•	 Growth in demand and improve service efficiency
Darwin to Katherine Alternative Energy Storage (DKAESS)		✓			42	1	24	•		 Compliance, asset renewal and improve service efficiency
Channel Island Power Station aero derivative major maintenance program		✓			37			•	•	 Continued operation of aero derivative assets
Weddell Power Station - major overhaul and hot section exchange		✓			29	4	8	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
19 Mile Depot - upgrade		✓			1	1	1			 Compliance, asset renewal and improve service efficiency
It's Always Brighter - partnership to create solar farms	✓	✓	✓	✓	•	•	•			 Enhance liveability through improved community facilities
Darwin										
Undergrounding power - schools - suburbs		✓			•	3		•	•	 Build a resilient power network, against cyclones and monsoons for businesses, schools and homes
Power network and substation upgrades - Berrimah and Hudson Creek		✓			56	10	11	•	•	 Growth in demand and improve service efficiency
Darwin International Airport precinct - major expansion of the solar array	✓			✓	100	•	•	•		 Improve energy efficiency by increasing renewable energy supported by Northern Australia Infrastructure Facility (NAIF)
Wishart - new Power Station including five gas-fired generators and ancillary structures, administration building and warehouse				✓	25	•				 Growth in demand and improve service efficiency

Water



A safe and secure water supply is essential to every aspect of life and the economy of the Northern Territory.

More than half of the Territory's potable water supply is provided by surface water sources in Darwin and Katherine, while groundwater is the primary water source for the remaining centres. It is critical to use water efficiently to preserve this precious natural resource and ensure a sustainable supply to develop our communities and industries.

Where we build houses, develop business and expand industries is dictated by access to water, while urban and industrial developments require water for construction, operation and maintenance. How Territorians use and conserve water dictates how much is available for drinking, bathing, cleaning and growing food.

Demand levels in some locations across the Territory are reaching the capacity of existing water sources, storage, treatment and delivery infrastructure, resulting in pressure on delivering water and sewerage services efficiently and economically. Even with reduced water consumption, the Darwin region's water source and treatment infrastructure may need to be augmented within 10 years to meet projected demand.

The Territory's water supply and demand is influenced by climate and variable yearly rainfall.

The age, condition and performance of water infrastructure, including dams, reservoirs, bores, treatment plants, pumps, mains, water tanks and meters, impact on water supply service delivery and reliability.

The Territory is delivering increased water supply capacity, quality and improving assets to increase water supply reliability. Water quality assurance is being strengthened through enhanced drinking water quality management.

Sewerage collection and treatment infrastructure is being augmented to improve sewerage services and environmental outcomes.

Water and sewerage infrastructure will be expanded to cater for remote housing developments in remote communities. Investment is needed to expand and increase infrastructure to ensure safe and reliable water and sewerage services across the Territory.

PRIORITY PROJECTS

- **Water Quality Treatment Improvements**
 - deliver safe water supplies across the Territory.
- **Katherine PFAS Water Treatment Plant**
 - deliver safe and reliable water supply.
- **Darwin Region Water Supply Strategy**
 - future water source and treatment options
 - water storage and transmission upgrades.
- **Remote Communities**
 - safe and reliable water and sewerage services.
- **Tennant Creek Borefield Upgrade** – a multi-year project to ensure ongoing supply reliability.
- **Ludmilla Wastewater Treatment Plant upgrades (Inlet works and chlorination facility).**

Key objectives

<p><i>Provide good quality drinking water by enhancing capability in line with Australian Drinking Water Guidelines.</i></p>	<p><i>Manage water supply sustainability in line with demand.</i></p>	<p><i>Plan for future sewerage infrastructure to continue to treat and dispose of sewage.</i></p>	<p><i>Plan, build and maintain safe, cost efficient and reliable water and sewerage infrastructure to provide services.</i></p>
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Key objectives										
Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Water main replacement - all regions		✓			41	5	6	•	•	Compliance, asset renewal and improve service efficiency
Water treatment to enhance water quality		✓			22	10	8	•	•	Ensure high standard of water quality
Indigenous Essential Services - water source, distribution, transmission and storage		✓			22	2	3	•	•	Growth in demand, compliance, asset renewal and improve service efficiency
Indigenous Essential Services - sewer treatment, ponds, pumps and reticulation		✓			15	1	2	•	•	Growth in demand, compliance, asset renewal and improve service efficiency
Sewerage re-lining - all regions		✓			12	2	2	•	•	Compliance, asset renewal and improve service efficiency
Indigenous Essential Services - upgrade disinfection systems - Darwin and Katherine regions		✓			8	4	2	•		Growth in demand, compliance, asset renewal and improve service efficiency
Water quality treatment and system upgrade		✓			2	1	1			Ensure high standard of water quality

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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Water source improvements - borefield upgrades and augmentation		✓			41	1		•	•	 Ensure high standard of water quality
Water storage and transmission upgrades		✓			32		1	•	•	 Compliance, asset renewal and improve service efficiency
Water reticulation upgrades (mains, services, meters and pipes)		✓			25	1	1	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
Sewerage treatment (plants and ponds)		✓			20				•	 Compliance, asset renewal and improve service efficiency
Sewerage pump station and transmission		✓			14			•	•	 Compliance, asset renewal and improve service efficiency
Yulara - augment sewerage treatment plant, pond duplication and additional sludge drying beds		✓			9	1		•	•	 Compliance, asset renewal and improve service efficiency
Indigenous Essential Services - water source, distribution, transmission and storage		✓			7	3	3		•	 Growth in demand, compliance, asset renewal and improve service efficiency
Barkly Region										
Borefield upgrades in Tennant Creek and Newcastle Waters		✓			7		2	•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
Tennant Creek evaporation ponds - stabilise embankments		✓			3			•	•	 Compliance, asset renewal and improve service efficiency
Indigenous Essential Services - water source, distribution, transmission and storage		✓			3	1	1	•		 Growth in demand, compliance, asset renewal and improve service efficiency
Water reticulation in Tennant Creek and Elliott		✓			2			•	•	 Compliance, asset renewal and improve service efficiency
Sewer reticulation augmentation		✓			1				•	 Compliance, asset renewal and improve service efficiency

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019- 20	2020- 21	Medium Term (3-5 Years)	Longer Term (6- 10 Years)	
Katherine Region										
Mataranka water infrastructure upgrade		✓			14				•	 Compliance, asset renewal and improve service efficiency
Timber Creek water infrastructure upgrade - new tank and distribution main		✓			13				•	 Compliance, asset renewal and improve service efficiency
Water reticulation upgrades (mains, services, meters and pipes)		✓			10			•	•	 Compliance, asset renewal and improve service efficiency
Sewerage reticulation - Katherine East and Crawford Street		✓			8				•	 Compliance, asset renewal and improve service efficiency
Indigenous Essential Services - water source, distribution, transmission and storage		✓			6	4	2		•	 Growth in demand, compliance, asset renewal and improve service efficiency
Water transmission (pumping, mains, and storage)		✓			3			•	•	 Compliance, asset renewal and improve service efficiency
Sewerage pump station and transmission		✓			3			•	•	 Compliance, asset renewal and improve service efficiency
Borroloola ground level tank and land		✓			2				•	 Compliance, asset renewal and improve service efficiency
Indigenous Essential Services - sewer treatment, ponds, pumps and reticulation		✓			2	1	1			 Growth in demand, compliance, asset renewal and improve service efficiency
Water source augmentation and bore rehabilitation		✓			2			•	•	 Growth in demand, compliance, asset renewal and improve service efficiency
PFAS water treatment plant and mitigation works	✓	✓	✓	✓	•	8	8	•	•	 Ensure sustainability of the region

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Indigenous Essential Services - water source, distribution, transmission and storage		✓			6	3	1		•	 Growth in demand, compliance, asset renewal and improve service efficiency
Top End Rural										
Adelaide River - water infrastructure upgrade for fire flows		✓			13				•	 Compliance, asset renewal and improve service efficiency
Water source - improve water supply		✓			4	1		•		 Growth in demand, compliance, asset renewal and improve service efficiency
Indigenous Essential Services - water source, distribution, transmission and storage		✓			2	2				 Growth in demand, compliance, asset renewal and improve service efficiency
Indigenous Essential Services - sewer treatment, ponds, pumps and reticulation		✓			1	1				 Growth in demand, compliance, asset renewal and improve service efficiency
Palmerston and Litchfield										
Water storage and transmission upgrades		✓			37			•	•	 Compliance, asset renewal and improve service efficiency
Northern region waste water treatment ponds inlet works program (Palmerston, Katherine)		✓			28			•	•	 Compliance, asset renewal and improve service efficiency
Water reticulation upgrades		✓			8			•	•	 Compliance, asset renewal and improve service efficiency
Holtze/Kowandi central sewer pumping station and rising main		✓			8				•	 Growth in demand, compliance, asset renewal and improve service efficiency
Durack Heights sewer diversion		✓			6				•	 Compliance, asset renewal and improve service efficiency
Humpty Doo sewerage pump station - stage 2		✓			3				•	 Compliance, asset renewal and improve service efficiency
Durack Primary School - replace water main and associated works		✓			1	1			•	 Essential service to support educational outcomes

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Water storage and transmission upgrades		✓			133	3	2	•	•	 Improve capacity for high quality water
Sewerage pump station and transmission		✓			48	1	6	•	•	 Compliance, asset renewal and improve service efficiency
Water reticulation upgrades (mains, services, meters and pipes)		✓			45	2	1	•	•	 Compliance, asset renewal and improve service efficiency
Larrakeyah outfall closure - East Point outfall extension		✓			21		1	•	•	 Compliance, asset renewal and improve service efficiency
Water source augmentation		✓			20			•	•	 Compliance, asset renewal and improve service efficiency
Ludmilla waste water treatment ponds - inlet works - new chlorine room		✓			16	1	6	•		 Compliance, asset renewal and improve service efficiency
Sewerage treatment, re-use and de-sludging		✓			14	2	1	•	•	 Compliance, asset renewal and improve service efficiency
Leanyer/Sanderson sewer diversion		✓			11				•	 Improve capacity for high quality water
Leanyer/Sanderson waste water treatment ponds - long term augmentation		✓			9			•	•	 Compliance, asset renewal and improve service efficiency
Sewerage reticulation		✓			5			•	•	 Compliance, asset renewal and improve service efficiency
Parap trunk sewer duplication		✓			5				•	 Improve capacity for high quality water
Darwin International Airport - water mains pipe duplication				✓	1	•				 Essential service to support the international airport
Karama Primary School - replace water main and associated works		✓			1	1				 Essential service to support educational outcomes

Transport and Logistics



Transport infrastructure is essential to develop a productive economy and to give business access to national and international markets. It also provides communities reliable access to a broad range of services. Unlocking the Territory's potential relies on well planned transport infrastructure investment.

Transport networks are made up of roads, ports, barge landings, airports, aerodromes and railways, and are essential to support:

- the movement of freight for existing and emerging economic activities such as mining, agriculture, tourism and defence; and
- improving a range of social indicators such as employment, health and education outcomes that depend on reliable and efficient transport access.

The Roads of Strategic Importance initiative delivers focused investment on priority road corridors used by agricultural, mining and other industries. It will deliver works such as road sealing, pavement strengthening, widening and rehabilitation, river and creek crossing upgrades and road realignments, helping to connect regional businesses to local and international markets, and better connect regional communities. The initiative will ensure key freight roads efficiently connect regional industries to ports, airports and transport hubs.

Darwin International Airport will construct a multi-million dollar freight and training hub. Providing an on-airport cold storage facility, vapour heat treatment, and upgrades to airside apron and

taxiway to accommodate larger aircrafts, it will enable local agribusinesses to take advantage of the overseas demand for fresh Australian produce and seafood. The hub will also include a training/education facility to create opportunities for students to learn about export, freight and logistics for the primary industry sector.

PRIORITY PROJECTS

- **Tanami Road** – Sealing the Tanami Road will provide a nationally significant road connection.
- **Central Arnhem Road** – providing a sealed link from the national highway network to Arnhem Land and Nhulunbuy.
- **Litchfield Road upgrade** – completing a sealed loop from Cox Peninsula Road to Batchelor and constructing an all-weather bridge over the Lower Finnis River.
- **Mandorah Jetty** – construct a new facility.
- **Darwin International Airport** – airport freight, cold storage and education hub.

Key objectives












Drive economic growth by providing efficient freight networks that meet industry needs and support increased productivity and reduced costs.

Improve transport safety by maintaining and upgrading existing infrastructure and consider user and operator safety when developing new transport and logistics infrastructure.

Provide improved connectivity to support equitable access for Territorians in regional and remote areas to support social inclusion, development and enable service delivery.

Enhance asset management by maintaining and rehabilitating infrastructure to improve network resilience and reduce whole of life costs.

Integrate land and transport planning to protect corridors for the future and ensure planning provides for effective connection to transport hubs and major activity centres.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
National Network										
Roads of Strategic Importance - Alice Springs to Darwin corridor	✓	✓			162	•	•	•	•	 Economic enabler and key interstate freight route
Territory Roads										
Programs including strengthening and widening, Black Spot, road safety initiatives, landscaping, cycle paths	✓	✓	✓		300	21		•	•	 Support connectivity and regional development through improved key arterial and secondary roads
Beef Roads upgrades	✓	✓			140	•	•	•	•	 Support economic development of the cattle industry and improve community connectivity
Local fishing and tourist roads - new works and upgrades		✓			21			•	•	 Support recreational and tourism activities
Regional Roads Productivity Package	✓	✓			15	15				 Support delivery of essential services to regional and remote communities
Local Government Roads										
Access roads to barge landings and aerodromes	✓	✓	✓		•				•	 Improve all weather access to support growth and improve community safety
Transport Assets										
Marine Infrastructure and barge landing		✓			•	9	•	•	•	 Support economic development by improving all weather access and goods handling facilities
Aerodrome and airstrip upgrades	✓	✓			68	5	•	•	•	 Improve all weather access to support future growth
Level crossing upgrades	✓	✓			10			•	•	 Improve road safety
Public Transport - upgrade bus stops, bus interchanges and CCTV		✓			•	1	•	•	•	 Improve community safety
Mount Isa to Tennant Creek railway - investigations	✓	✓		✓	•	•	•	•		 Connect the Alice Springs to Darwin railway with the line between Mount Isa and Townsville






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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Territory Roads										
Roads of Strategic Importance - Tanami Road - upgrade to a sealed standard (excluding WA section)	✓	✓			200	7	•	•	•	 Economic enabler for the mining industry and key national freight route between the Territory and the rest of Australia
Roads of Strategic Importance - Maryvale Road - improve the road standard	✓	✓		✓	128	19	•	•	•	 Economic enabler and key national freight route between the Territory and the rest of Australia
Outback Way - upgrade the Plenty Highway	✓	✓			70	15	•	•	•	 Enable mining, pastoral, cattle and tourism growth by connecting Queensland through the Territory to Western Australia
Outback Way - improve the road standard of Tjukururu Road	✓	✓			45	5	•	•	•	 Economic enabler for the mining, pastoral, cattle and tourism industries
Sandover Highway - sealing selected sections	✓	✓			30			•	•	 Supports community access and the cattle industry
Sadadeen Road connector	✓	✓			27				•	 Improve flood immunity in the Mount Johns Valley and Desert Springs areas
Santa Teresa - sealing selected sections		✓			15			•	•	 Support delivery of essential services to regional and remote communities
Lasseter Highway - improve the road standard	✓	✓			10	1		•	•	 Support economic development of the tourism, cattle and resource industries
Larapinta Drive - capacity improvements and upgrades		✓			10			•	•	 Improve road safety and visitor experience
Luritja Road - improve flood immunity and rest areas		✓			8				•	 Support the tourism and local cattle industry
Ross Highway to Trepina Gorge - extend the seal on access road		✓			2				•	 Improve access to support the tourism industry
Seal access into Redbank Gorge from Namatjira Drive		✓			1				•	 Improve access to support the tourism industry
Local Government Roads										
Iparpa Road including path		✓	✓		8		•			 Improve safety
Transport Assets										
Ti Tree Transport and Horticultural Hub	✓	✓		✓	•			•		 Support service delivery within the region and develop the horticultural sector

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
National Network										
Roads of Strategic Importance - Barkly Highway upgrades	✓	✓			70	•	•	•	•	 Economic enabler and key national freight route between the Territory and Queensland
Territory Roads										
Tablelands Highway - improve the road standard - bridge upgrade	✓	✓			50	21		•	•	 Economic enabler for the cattle industry and key national freight route between the Territory and the rest of Australia
Wollogorang Road - improve the road standard		✓			25				•	 Support economic development of the cattle industry
Barkly Stock Route - improve the road standard	✓	✓			13	10		•	•	 Support economic development of the cattle industry
Devils Pebbles - seal access		✓			2				•	 Improve access to support the tourism industry
Local Government Roads										
Upgrade existing street lights in Elliott and Tennant Creek		✓	✓		3	1	1	•		 Improve the visual amenity, lighting and security
Improve council roads, footpaths and cycle paths in Elliott and Tennant Creek	✓		✓		1		1	•		 Improve council services






Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
National Network										
Roads of Strategic Importance - Victoria Highway upgrades	✓	✓			40	•	•	•	•	 Economic enabler and key national freight route between the Territory and the rest of Australia
Victoria Highway - Little Horse Creek and Big Horse Creek upgrades	✓	✓			35	11				 Improve flood immunity 
Truck Bay on Victoria Highway opposite CBD		✓			2			•		 Increase capacity for commercial transport 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
Territory Roads										
Buntine Highway - improve the road standard and extend the seal towards Western Australia	✓	✓			255	29	13	•	•	  Support economic development of the cattle and tourism industries
Douglas Daly Connector Road	✓	✓			60			•	•	  Support agriculture, tourism and the community
Nathan River Road - improve flood immunity	✓	✓		✓	60				•	  Improve access to support the tourism industry
Savannah Way - Roper Highway sealing selected sections	✓	✓		✓	45			•	•	  Support economic development of the cattle, mining and mineral exploration industries
Savannah Way - progressively widen and seal the Carpentaria Highway from one lane to two lanes and improve flood immunity	✓	✓			20	4		•	•	  Support economic development of the mining, cattle and tourism industries and improve community access
Lajamanu Road - capacity improvements and upgrades		✓			10		•	•	•	  Support delivery of essential services to regional and remote communities
Katherine East Arterial - extending Chambers Drive to Gorge Road		✓			10			•		  Support economic development through future land development
Gorge Road - upgrade Maud Creek Crossing		✓			6			•		  Improve access to support the tourism industry
Local Government Roads										
Victoria Daly - improve internal Council roads			✓		18	•	3	•	•	  Safe community
Borrooloola - Rocky Creek - replace bridge	✓	✓	✓	✓	6	6				  Improve all weather access between north and south Borrooloola
Emungalan Road Leigh Creek Bridge construction	✓	✓	✓		3	3				  Improve flood immunity

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Territory Roads										
Central Arnhem Road upgrade	✓	✓			651	16	13	•	•	 Improve regional and remote connectivity and support the cattle and tourism industries
Numbulwar Road - improve the road standard including Phelp River crossing		✓			10			•		 Support delivery of essential services to regional and remote communities
Local Government Roads										
Angurugu - Yambukwa Road / internal roads upgrades			✓	✓	4	•				 Enhance liveability through improved recreation facilities
Umbakumba - road re-seal and stormwater project	✓		✓		2	•				 Improve community safety and connectivity
Gawa Road - resurface and drainage upgrades			✓		1	•				 Enhance liveability through improved recreation facilities
Transport Assets										
Nhulunbuy marine infrastructure^		✓		✓	17+	•	•		•	 Underpin the development of industries servicing the community and export markets
Arnhem Space Centre				✓	•	•		•		 Provide access to space for commercial, research and government organisations
Numbulwar Freight Hub	✓	✓	✓		4	•				 Enhance infrastructure to support development



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Territory Roads										
Arnhem Highway Adelaide River Floodplain	✓	✓			78	78	•			 Improve flood immunity at the Adelaide River crossing
Tiwi Islands - road upgrades to support economic and social development	✓	✓			75	5	•	•	•	 Support economic development of the region, improving connectivity
Roads of Strategic Importance - Port Keats Road upgrade including Saddle Rail crossing	✓	✓			75	30	•	•	•	  Support economic development of the region, improving connectivity
Kakadu Roads - improve access to Kakadu National Park during the wet season	✓				70			•		  Improve access to support the tourism industry
Keep River Plains Road upgrade	✓	✓			57	44		•		 Support Project Sea Dragon (proposed aquaculture farm at Legune station) and Ord River Stage 3 project
Litchfield Park Road - including constructing the Lower Finnis River bridge	✓	✓			39	26				 Improve access to support the tourism industry
Arnhem Highway - upgrades (other than Adelaide River Floodplain)	✓	✓			20				•	 Support economic development of the tourism, defence, mining, extractive and livestock industries
Arnhem Link Road (Top Road or West Arnhem Road) improve road standard	✓	✓			15			•	•	 Improve regional and remote community connectivity with an alternate route to Nhulunbuy
Bynoe Harbour - provide sealed access to the Project Sea Dragon facility at Point Ceylon	✓				7			•		 Support land release and aquaculture activities
Improve access to Sandy Creek (Litchfield National Park)		✓			2			•		 Improve access to support the tourism industry



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Local Government Roads										
West Arnhem Regional Council infrastructure - sealing roads - LED street lighting	✓	✓	✓		17	2	2	•	•	 Improve road infrastructure to ensure a safe community 
Mandorah bike paths - new and upgrade beach access			✓		4			•		 Enhance infrastructure to support development 
Transport Assets										
Mandorah Jetty and ferry terminal		✓			50	50	•			 Improve safety for ferry passengers and enable the service to grow to meet demand 
Batchelor Airport	✓	✓			8	1		•	•	 Support connectivity and improve all weather access to support future growth 
Palmerston and Litchfield										
National Network										
Pinelands Industrial Precinct access - intersection upgrade at McKinnon Road - improved access		✓			31	6	•	•		 Provide better heavy vehicle access into Pinelands Industrial Precinct 
Territory Roads										
Construct new two lane link from Tiger Brennan Drive to Kirkland Road	✓	✓			60				•	 Support future land development 
Chung Wah Terrace - capacity improvements and upgrades		✓	✓		10			•	•	 Improve network capacity 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Palmerston and Litchfield										
Territory Roads										
Elrundie Avenue - capacity improvements and upgrades		✓			27			•	•	Improve connection between gas plants, Middle Arm and East Arm Port
Coolalinga traffic management - improve safety and connectivity in and around the commercial precinct	✓	✓			22	12	•			Improve safety and connectivity in and around the Coolalinga commercial precinct
University Avenue - capacity improvements and upgrades		✓			10				•	Improve network connection
Woodlake Boulevard - upgrade Kirkland Road intersection		✓			10			•		Enhance safety, accessibility, connectivity and amenity
Tulagi Road - upgrade Stuart Highway intersection		✓			5	4				Enhance safety, accessibility, connectivity and amenity
Cox Peninsula Road - upgrade intersections to improve capacity and safety		✓			3			•		Support development of the extractive industry
Local Government Roads										
Duplication of Girraween Road between Stuart Highway and Anglesey Road	✓	✓	✓		30			•	•	Support increased traffic volumes
Roads of Strategic Importance - upgrade and seal selected roads servicing the mango industry	✓	✓	✓	✓	21	•	•			Economic enabler for the mango industry and key freight routes between the Territory and the rest of the world
Bridges in the Litchfield municipality - Fly Creek on Old Bynoe Road - Darwin River on Old Bynoe Road - Wells Creek on Virginia Road - Elizabeth River on Elizabeth Valley Road	✓	✓	✓	✓	8			•	•	Improve all weather vehicle access
Road re-sealing in the Litchfield municipality			✓		7	1	1	•	•	Improve vehicle access
Finn Road pavement upgrade		✓	✓		5	1			•	Support extractive industry development

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Territory Roads										
Berrimah Road - capacity improvements	✓	✓			60				•	 Improve network capacity and safety for increased traffic into the port
McMillans Road - capacity improvements and upgrades	✓	✓			60				•	 Improve network connection
Vanderlin Drive - capacity improvements and upgrades		✓			40				•	 Provide north-south capacity improvement for access from the northern suburbs
McMinn Street - duplication from Daly Street to Bennett Street		✓			30			•		 Provide capacity improvements for Darwin CBD circulation and relieve congestion
Amy Johnson Avenue - begin progressive duplication		✓			28			•	•	 Provide commuters with an alternative connector from northern suburbs to Darwin CBD
Bagot Road - capacity improvements and upgrades		✓			22	6			•	 Improve network connection
Tiger Brennan Drive - intersection upgrade separations at various locations	✓	✓			20				•	 Improve network connection
Trower Road - capacity improvements and upgrades		✓			10				•	 Improve network connection
Export Drive - improve flood immunity		✓			5				•	 Improve safety and access associated with flooding
Royal Darwin Hospital - road repairs - pedestrian access upgrade		✓			4		2	•		 Improve access to and around the hospital campus for patients, carers and staff



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Local Government Roads										
Council road resurfacing and renewal			✓		24	2	2	•	•	 Network improvement and improve road safety
Stormwater upgrades and reconstruction			✓		16	1	1	•	•	 Enhance the amenity of local streets
Street and public lighting			✓		15	2	1	•	•	 Enhance the amenity of local streets
Footpath Program			✓		9	1	1	•	•	 Enhance safety, accessibility and connectivity for people of all ages and abilities
Pathway Program			✓		8	1	1	•	•	 Provide safe and clear pathways for pedestrians and bike riders
Boulter Road urban cross section upgrade			✓		6			•		 Network capacity improvement and improve road safety
Lee Point Road upgrade			✓		5	2	2	•		 Network improvement and improve road safety
Driveway Program			✓		3	•		•	•	 Enhance the amenity of local streets
Cavenagh Street reconstruction			✓		3	2				 Network capacity improvement
Dinah Beach Road - upgrade to urban cross section			✓		3	2				 Network capacity improvement and improve road safety
Dick Ward Drive - Karringal Street intersection construction			✓		2	•	1	•		 Enhance the amenity of local streets
Chin Quan Avenue upgrades			✓		2			•		 Network capacity improvement and improve road safety
Transport Assets										
Ship Lift Facility^	✓	✓			400			•	•	 Provide a common user facility for the general maritime sector and Department of Defence
Darwin International Airport - airport freight, cold storage, vapour heat treatment plant and education hub^	✓			✓	15	•				 Enable long term economic growth by expanding export opportunities supported by Northern Australia Infrastructure Facility (NAIF)
Darwin bus interchange relocation		✓			1	•		•		 Contribute to Darwin CBD revitalisation and State Square redevelopment

Public Safety and Justice



The Northern Territory has a large network of infrastructure to provide public safety, child protection and justice services for more than 247 000 Territorians.

Territory police, justice services staff and the court system work to protect and promote the rights of victims of crime and the vulnerable and disadvantaged across a large geographical area.

The first responders service police, fire and emergency facilities across 1.3 million square kilometres including metropolitan, regional and remote areas. Delivering police, fire and emergency services facilities is vital to enable a timely response during times of emergency and community need.

With an ever-changing external environment and more severe weather events predicted in the future, more pressure is placed on our emergency services, family welfare workers and infrastructure to ensure adequate emergency response and recovery.

The Northern Territory Government recognises the need to provide facilities that achieve an affordable balance between security, safety, opportunity for rehabilitation and reintegration, response to gender, cultural and individual needs of young people, as well as providing appropriate health, mental health and education programs.

Family violence, substance abuse and mental illness put increasing demand on child protection, family welfare, police and emergency services.

NORTHERN TERRITORY POLICE, FIRE AND EMERGENCY SERVICES



112 941 calls to 000, **96.4%** were answered within 10 seconds

8 208 fire and emergency services incidents were responded to

323 rescue, emergency and recovery operational events were responded to

Integrated child and family centres support our children and families to keep them healthy and safe from family violence.

The expansion of the closed circuit television (CCTV) network and mobile CCTV units across the Territory supports and enables the frontline to provide timely responses to critical incidents.

Extensive investment is needed to:

- provide youth-focused infrastructure focusing on diversionary programs, creating after hours youth activities and reintegrating young people back into the community
- explore private sector investment opportunities for infrastructure to support children, families, the justice system and our police, fire and emergency services
- upgrade ageing remote police infrastructure to invest in our community to help address the significant distance between essential services and remote localities
- provide effective and efficient emergency response to minimise the impact of disasters on the community.

PRIORITY PROJECTS

- Galiwinku - Women's Safe Place
- New Police Stations
 - Nightcliff, Maningrida and Ngukurr
- Barkly Regional Deal
- Palmerston Fire Station
- Youth Justice Training Facilities
- Back on Track

Key objectives

<p><i>Ensure a safe and resilient community by supporting the vulnerable and disadvantaged, and protecting children from harm.</i></p>	<p><i>Provide a strong, responsive, contemporary justice system to ensure everyone has access to opportunities and resources to participate in society.</i></p>	<p><i>Prevent crime by reducing domestic and family violence, focus on youth crime and target the drivers of crime including alcohol and other drugs.</i></p>	<p><i>Achieve an affordable balance between security, safety, opportunity for rehabilitation and reintegration with youth-focused infrastructure.</i></p>	<p><i>Enhance the resilience and response capability of our emergency services.</i></p>
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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Police facilities in regional and remote communities	✓	✓			•			•	•	 Increase service delivery and improve community safety by providing facilities that meet current standards
Back on Track - facilities to support youth justice programs		✓			7	7				 Improve outcomes for young people by providing an alternative to detention
Upgrade women's shelters		✓			6			•		 Improve support for victims of domestic violence
Asbestos management of unidentified asbestos prior to Northern Territory Government infrastructure development		✓			•	•	•	•	•	 System wide removal of asbestos in Government assets
Security enhancements to police facilities	✓	✓			•		•	•	•	 Address safety and security issues

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Youth Justice Training Facility in Alice Springs		✓			10	10	•			Improve outcomes for young people in detention
New youth justice court		✓			15			•		Findings of the Royal Commission
New emergency services facilities - Alice Springs, Harts Range, Hermannsburg, Kintore and Yuendumu		✓			12			•	•	Improve service delivery for safety outcomes and support population growth
Local court refurbishment		✓			11	2				Increase in service requirements
Alice Springs Correctional Centre - fence and security system upgrade - relocate female prisoners		✓			4	1			•	Address safety and security issues and increase in capacity
Barkly Region										
Barkly Regional Deal - Back on Track safe accommodation - renovate Tennant Creek watch house - Alpururulam police station video conference	✓	✓	✓		7	4	3			Improve service delivery for safety outcomes and support population growth



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
Katherine - new police station		✓			30				•	 Improve service delivery for safety outcomes and support population growth
Ngukurr - new police complex with additional housing	✓				11	11				 Improve service delivery for safety outcomes and support population growth
Katherine NT Emergency Services facilities and visitor officer quarters (VOQ's)		✓			9			•		 Increase in service requirements and improve community safety
Katherine Court House upgrade		✓			7			•		 Increase in service requirements
Purpose built structure for NT Emergency Services - Daly River, Lajamanu, Timber Creek and Wadeye		✓			6			•	•	 Upgrade site services to meet current standards
Relocate Director of Public Prosecutions Katherine Office		✓			1		•	•		 Increase in service requirements and improve proximity to courts
East Arnhem										
Purpose built structure for NT Emergency Services - Galiwinku, Gapuwiyak, Gunbalanya, Numbulwar and Ramingining		✓			7			•	•	 Improve emergency services to ensure community safety
Nhulunbuy fire station upgrade		✓			4			•		 Upgrade station to meet current standards
Galiwinku Women's Safe Space		✓			1	1				 Improve support for victims of domestic violence



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Maningrida - new police complex with additional housing	✓				15	15	•			Increase in service requirements and improve community safety
Asbestos removal in Council buildings	✓	✓	✓		6		1	•	•	Removal of asbestos in Council assets
Purpose built structure for NT Emergency Services - Cox Peninsula, Maningrida and Pirlangimpi		✓			4			•	•	Improve emergency services to ensure community safety
Palmerston and Litchfield										
New youth justice training facility		✓			60	60	•			Improve outcomes for young people in detention
New Palmerston fire and emergency services complex		✓			25	25	•			Provide effective emergency response and improve community safety
New Bushfires NT headquarters at Acacia Hills		✓			7	7				Provide effective emergency response and improve community safety
Humpty Doo - amalgamation of career fire station and volunteer fire stations		✓			3			•		Improve emergency services to ensure community safety
Palmerston youth drop-in centre - fitout		✓			3	3				Improve outcomes for young people



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Women's Correctional Facility - separate purpose built facility for women in prison		✓		✓	160				•	  Address recommendations of the Ombudsman's report
John Stokes Square redevelopment^ - demolition and early works - Nightcliff Police Station - public housing - commercial spaces - space for non-government organisations		✓			45	44	•			  Redevelop infrastructure to improve services
New water police complex		✓			40				•	  Upgrade site services to meet current standards
Peter McAulay Centre - international college accommodation - main building upgrade - new exhibits / property storage facility - shed structure over parade grounds		✓			39				•	  Increase in service requirements and improve community safety
Peter McAulay Centre - new local and international joint training complex		✓			20			•		  Increase in service requirements and improve community safety
New emergency operations centre		✓			15		15			  Improve emergency services to ensure community safety
Electronic speed limit signs outside Darwin schools		✓	✓		2	2				  Ensure the safety of our children
Darwin Local Court fitout		✓			1		1			  Increase in service requirements





The vision for the Northern Territory Government is to be a world leader in delivering remote health through collaboration, excellence and innovation.

The government is focused on ensuring infrastructure investment decisions provide clinically appropriate facilities that meet the current and future requirements for health services for Territorians. The infrastructure must also adapt to new models of care as they are introduced.

Two health services operate in the Northern Territory health system – Top End Health Service (TEHS) and the Central Australia Health Service (CAHS). TEHS provides health services to a population that is largely concentrated in two urban areas (Katherine and Darwin) while the majority of the CAHS population resides in Alice Springs and Tennant Creek.

The balance of the Territory's population is spread across a very large and remote area of 1.3 million square kilometres. Providing infrastructure in these remote areas incur increased freight costs over challenging transport access routes and substantial on-cost for contractors.

Due to the age and condition of a lot of the government's health infrastructure there is a genuine need to refurbish or build new replacements. This work will create significant long

term opportunities for local construction industry suppliers and contractors and potentially create opportunities for the private sector to invest in building health infrastructure that can be leased back to the government. Strategic planning decisions will be made to meet the forecast clinical needs in alignment with the condition and priority of the assets.

Major investment in health infrastructure is needed to:




- refurbish or replace remote health centres, hospital wards, theatres and ambulatory care facilities to meet compliance standards and clinical demand
- provide new mental health facilities to meet increasing clinical demand
- provide new forensic pathology, mortuary and grieving centre to meet coronial and client requirements
- provide new renal facilities to cater for rapidly increasing dialysis needs
- upgrade or replace ageing services infrastructure at five hospitals so they continue to function.

PRIORITY PROJECTS

- **Central Sterilising Department Compliance with AS 4187 and Operating Theatre Works**
 - Tennant Creek Hospital, Gove District Hospital, Katherine Hospital, Royal Darwin Hospital, Alice Springs Hospital
- **Alice Springs Hospital**
 - new ambulatory care centre
 - new multi-storey car park
- **Remote Health Centres**
 - rolling program of upgrades

Key objectives

<i>Prevent illness by having an integrated focus on primary prevention across the life span.</i>	<i>Focus on each person to provide consistent care delivery that is person-centred, culturally appropriate, safe and effective.</i>	<i>Redesign to improve access and enable services closer to home in a timely manner.</i>	<i>Lift performance towards excellence by building capacity to deliver innovative sustainable services.</i>	<i>Embed research in integrated service delivery.</i>	<i>Systematise effectiveness and efficiency through robust systems.</i>
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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Green Hospitals Program - including renewable energy and energy efficiency upgrades		✓			•		•	•	•	 Contribute to Northern Territory Government renewables target and reduce operating costs
Territory hospitals - central sterilising department compliance with AS 4187 and operating theatre works		✓			•		•	•	•	 Comply with the latest standard for reprocessing reusable medical devices to maintain hospital accreditation
Territory hospitals - master planning		✓			•	•	•	•		 Support the delivery of health care services across the Territory

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

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82 960 mental health community-based occasions of service provided

13 163 overall admissions requiring a surgical procedure

158 732 presentations to the emergency department



82 708 admissions for dialysis (haemodialysis)





85 101 NT public hospital admissions (excluding dialysis)

3 386 people assisted by aeromedical services



4 287 services delivery remotely via Telehealth equipment

3 315 babies born with assistance from a health professional

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
New health centres - Alcoota, Bonya, Epenarra, Finke, Haasts Bluff, Imanpa, Lake Nash, Mt Liebig, Nyirripi, Santa Teresa, Ti Tree and Yuendumu	✓	✓			80			•	•	 New infrastructure to improve health outcomes for the community
Refurbish health centres - Areyonga, Corella Creek, Harts Range, Illeuwurru, Kings Canyon (Watarrka), Laramba (Napperby), Mount Allan (Yuelamu), Mt Liebig, Pmara Jutunta, Tara (Neutral Junction), Wallace Rockhole, Willowra and Wilora	✓	✓			50	1		•	•	 Improve health outcomes for the community through facility improvements
Alcohol and other drugs rehabilitation facilities - Ali Curung, Elliott, Kaltukatjara, Ti Tree, Titjikala, and Yuendumu	✓	✓			36			•	•	 Improve delivery of rehabilitation services
Alice Springs Hospital upgrades - ward wet areas - kitchen freezer expansion - accommodation - electrical risers - chillers and boilers - lifts		✓			29			•	•	 Improve hospital facilities to improve service delivery and health outcomes
Alice Springs Hospital - fire protection, airconditioning and remediation - relocate substation above flood level - index washer - pathology and public services relocation works - emergency electrical		✓			27	5	3			 Improve hospital facilities to improve service delivery and health outcomes
Alice Springs Hospital - Ambulatory Care Centre	✓				26	26	•			 Improve medical care provided on an outpatient basis
Residential unit complex - Alice Springs Hospital staff accommodation^				✓	25	25				 Ensure quality residential accommodation is available for staff delivering health services at the Alice Springs Hospital
Alice Springs Hospital - multi-storey car park (stage 1)		✓			12	12	•			 Support service delivery of the Ambulatory Care Centre
Remote health centres upgrades from condition audit reports		✓			4	1	•	•		 Improve health outcomes for the community through facility improvements
New dental clinics for health centres - Canteen Creek, Epenarra, Finke, Harts Range, Laramba, Mt Liebig, Willowra and Yuelamu		✓			2		•	•	•	 Improve service delivery and health outcomes in the community

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
New and refurbished health staff accommodation - Ali Curung, Alpurrurulam (Lake Nash) and Elliott		✓			6		•	•	•	 Provide housing and training opportunities for government employees who deliver health services in remote communities
Tennant Creek - residential rehabilitation and treatment centre		✓	✓		5	5				 Improve health outcomes for the community through delivery of rehabilitation services
Tennant Creek Hospital upgrades - new offices and consulting room for mental health and remote AOD - replace switchboards, cabling and electrical safety systems - kitchen and cool rooms - staff night safe carpark	✓	✓			6	•	3			 Upgrade hospital facilities to improve service delivery and health outcomes
New remote health education facilities - Ali Curung, Alpurrurulam (Lake Nash), Elliott and Epenarra	✓	✓			4			•		 New infrastructure to improve health outcomes for the community
Refurbish health centres - Corella Creek and Tara (Neutral Junction)	✓	✓			4			•	•	 Improve health outcomes for the community through facility improvements
Arlparra - respite and staff accommodation complex	✓		✓		4			•		 Improve council services
Barkly Regional Deal - Tennant Creek Hospital staff accommodation	✓				3	3				 Improve accommodation options to support the attraction and retention of hospital staff











Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine Region										
New health centres - Beswick, Binjari, Borroloola, Bulman, Jilkminggan, Pigeon Hole, Pine Creek, Timber Creek and Urapunga (Rittarangu)	✓	✓			64			•	•	 New infrastructure to improve health outcomes for the community
Refurbish health centres - Amanbidji, Barunga, Bulla, Mataranka and Minyerri	✓	✓			24			•	•	 Improve health outcomes for the community through facility improvements
Seniors village and aged care facilities	✓		✓	✓	11			•		 Improve service delivery and health outcomes
Katherine Hospital upgrades - staff accommodation refurbishment - improve emergency power generation system - vapour barrier rectification - laundry air-conditioning - replace boilers - engineering works including back-up power generators	✓	✓			7			•	•	 Improve hospital facilities to improve service delivery and health outcomes
Katherine Hospital critical services - replace main switchboard and raise above flood level - replace/upgrade campus distribution cabling		✓			5	1	3			 Install a new switchboard room and upgrade the distribution cabling to enable future development of the campus
Katherine Hospital - consulting rooms	✓				2	2				 Improve delivery of specialist services, health outcomes and reduce patient travel
Mataranka - aged care facility and child care centre	✓		✓		•	1				 Provide specific aged care services to improve health outcomes and enable people to remain in their community
Roper Gulf region - aged care services	✓				•			•		 Provide specific aged care services to improve health outcomes and enable people to remain in their community

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Gove District Hospital upgrades - main switchboard replacement - staff accommodation block refurbishment - new medical records facility - new water storage and ring main - kitchen, engineering stores and workshop refurbishment - offices expansion - paediatrics security upgrade - CCTV expansion - staff accommodation expansion - coroner's mortuary expansion	✓	✓			41			•	•	  Improve hospital facilities to improve service delivery and health outcomes
New health centres (including morgues and accommodation where required) - Alyangula, Angurugu, Gapuwiyak, Numbulwar and Ramingining	✓	✓			36		•	•	•	  New infrastructure to improve health outcomes for the community
Gove District Hospital upgrades - upgrade imaging department for new CT scanner - fire remediation works - Ward 1 - isolation room refurbishment - new back-up emergency power generator - additional chiller, cooling tower and associated equipment - stores awning		✓			12	8	3	•		  Improve hospital facilities to improve service delivery and health outcomes
Nhulunbuy residential aged care centre	✓				10	•				  Provide a quality aged care facility in Nhulunbuy to service East Arnhem communities
Milyakburra (Bickerton Island) - refurbish health centre	✓	✓			4			•		  Improve health outcomes for the community through facility improvements

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
New health centres - Adelaide River, Batchelor, Belyuen, Gunbalanya, Jabiru, Palumpa (Nganmarriyanga) and Pirlangimpi	✓	✓			48			•	•	 New infrastructure to improve health outcomes for the community
Refurbish health centres - Julanimawu (Nguiu), Nauiyu, Milikapiti, Minjilang, Wadeye (Port Keats), Warruwi, Woodcupaldiya	✓	✓			28			•	•	 Improve health outcomes for the community through facility improvements
Batchelor - aged accommodation facility		✓			10	1		•	•	 Provide specific aged care services to improve health outcomes and enable people to remain in their community
Health centre expansion - Maningrida and Peppimenarti	✓	✓			9			•		 Improve service delivery and health outcomes
Nguiu - renal unit expansion and refurbishment		✓			6			•		 Deliver renal services to improve health outcomes



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Palmerston and Litchfield										
Palmerston Renal Services expansion - 30 bed renal patient accommodation unit		✓			18			•		 Deliver renal services to improve health outcomes 
Palmerston new ambulance station		✓			7				•	 Improve service delivery and health outcomes 
Palmerston Super Clinic refurbishment		✓			4				•	 Improve service delivery and health outcomes 
Palmerston expand oral health services		✓		✓	4			•		 Increase dental service delivery and health outcomes 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019- 20	2020- 21	Medium Term (3-5 Years)	Longer Term (6- 10 Years)	
Darwin										
Royal Darwin Hospital (RDH) upgrades - surgical intensive care and theatre - various wards - pharmacy relocation - kitchen - back dock - new ICT building to replace Building 6 - new forensic pathology, mortuary and grieving centre		✓			146		•	•	•	 Improve hospital facilities to improve service delivery and health outcomes
New health office accommodation - new multi-storey office building - office fitout - child care centre - multi-storey carpark		✓		✓	78	75	3			 Facilitate the co-location of Territory Health staff
Royal Darwin Hospital critical infrastructure works - concrete spalling repairs on the main ward block - tower cladding / waterproofing - safety upgrade of Ward 2 bathrooms - separation of Emergency Warning Intercommunication System and public announcement system - replace autoclave clinical waste steriliser and grinder - boiler house cyclone debris protection - low voltage switchboard replace and relocate - replace distribution boards - building management system cable upgrade - air-conditioning temperature control - cooling towers redundancy works		✓			74	1	4	•	•	 Improve hospital facilities to improve service delivery and health outcomes
Royal Darwin Hospital - new inpatient mental health facility	✓	✓			70		•	•		 Improve mental health services and increase number of beds available
Replace the Tamarind Centre	✓	✓			35			•		 Improve mental-health services

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Royal Darwin Hospital building services upgrades - potable water ring main extension - improve antenna system coverage - fire doors and frames upgrade - chilled water reticulation upgrade and expansion - CCTV network improvements - switchboard upgrade for RDH and Palmerston Regional Hospital (PRH)		✓			22			•	•	  Improve hospital facilities to improve service delivery and health outcomes
Royal Darwin Hospital - positron emission tomography (PET) scanner and cyclotron	✓	✓			21	6				  Enable Territory cancer patients to access detection and treatment services closer to home
Darwin Private Hospital - new mental health wing				✓	15	15	•			  Improve mental health services and increase number of beds available
Royal Darwin Hospital - asbestos remediation to northern part of site		✓			13			•		  Manage soil contamination
Royal Darwin Hospital - replace / refurbishment - new steam plant and domestic hot water - patient and staff lift - on-site staff accommodation - central energy plant fencing	✓	✓			12	4	•	•		  Improve hospital facilities to improve service delivery and health outcomes
Nightcliff Renal Facility - refurbish and increase number of chairs		✓			11	7				  Deliver renal services to improve health outcomes
Community 360 - disability services facilities - stage 2	✓			✓	9	9				  Improve access to disability services
Veteran's Wellbeing Centre	✓				5	5				  Improve availability of mental health services to veterans and retired emergency personnel
Darwin and Palmerston renal services expansion - Home Therapies Unit		✓			4		•			  Consolidate existing functions to deliver renal services to improve health outcomes

Housing



Having a good home leads to good education, good health and positive outcomes for the community.

The Northern Territory Government is working with communities and the private sector to unlock the housing market to provide real choices for people living in the Territory.

Planning is underway in urban and remote areas to address needs across the housing continuum from homelessness, transient support and crisis accommodation to social housing, affordable rentals and home ownership options.

Real Housing for Growth will increase housing supply and ease housing cost pressures to support, attract and retain key workers in the Territory through these initiatives:

- **Social housing head-leases** – private residential developments supported by government backed head leases
- **First home owner grant** – \$10 000 may be available to assist first home buyers
- **First home owner discount** – stamp duty reduction for your first home
- **BuildBonus grant** – an incentive to assist with building a new home to live in
- **Homelessness Innovation Fund** enabling government to work with the non-government sector to deliver better housing support for people who are homeless or at risk of homelessness.

The \$100 million public housing stimulus program supports local businesses and jobs in the construction industry through upgrades, repairs and maintenance work to public housing in Darwin, Palmerston, Nhulunbuy, Katherine, Tennant Creek and Alice Springs.

The distance of the Territory's 73 remote communities, 43 town camps and 500 homelands from regional centres provides a challenge to build housing infrastructure due to freight costs and transport access.

The Territory has the highest homelessness rate in the nation, ranging from people living in overcrowded dwellings in remote areas to people sleeping rough in urban centres. Overcrowding impacts on the health of people in remote and regional communities.

The Northern Territory Government's 10 year **\$1.1 billion remote housing program** is building new homes, focusing on repairs and maintenance and funding new living spaces in existing homes to reduce overcrowding and create local jobs.

In 2019, the remote housing program received an additional \$550 million over five years from the Australian Government.

The Territory has a high volume of public housing dwellings compared to other Australian states.

Infrastructure efficiencies occur with more compact urban forms and infill residential development, particularly on undeveloped or under-utilised land near transport networks and community or commercial facilities.

The Territory supports a diverse range of housing types to cater for changing needs and demographics to meet diverse community aspirations and minimise development impacts on established areas.

Public Housing as a percentage of dwellings in capital cities

Other Australian Capitals

 3.2%

 Darwin

 6.2%

PRIORITY PROJECTS

- **10 year \$1.1 billion remote housing program:**
 - Room to Breathe – extending living spaces
 - HomeBuildNT – build new houses
 - Repairs and maintenance on existing houses
 - Government Employee Housing to support service delivery
- **\$550 million Federal remote housing**
- **\$45 million John Stokes Square Redevelopment**
 - a 24 hour police station
 - 76 new public housing units
 - pedestrian link from Nightcliff Village to Nightcliff Shopping Centre
 - community and green space
 - space for non-government organisations to provide support to public housing tenants.

Key objectives

Sustainable housing supply, considering affordability, to meet the needs of Territorians now and in the future.

Sustainable communities where the housing system supports communities to grow and prosper.










Sustained wellbeing for people with a housing system that supplies the right options to the right people at the right time.

Offer an affordable and accessible housing system for eligible Territorians.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
\$1.1 billion Remote Indigenous Housing program - \$500 million HomeBuild NT - \$200 million Room to Breathe - \$200 million Government Employee Housing - \$200 million repairs and maintenance		✓			1100	206	100	●	●	 Reduce overcrowding, improve housing conditions and health outcomes for people in remote communities
Essential Remote Housing - \$550 million over five years to address overcrowding	✓				550	110	110	●		 Reduce overcrowding, improve housing conditions and health outcomes for people in remote communities
Homelands Extra Allowance Program over two years to assist with repairs and maintenance		✓			●	6				 Improve housing conditions and health outcomes for Aboriginal people permanently living on homelands
Seniors lifestyle accommodation		✓		✓	●		●	●		 Increase the quantity and range of accommodation opportunities

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
Residential unit complex - Alice Springs Hospital staff accommodation ^				✓	25	25				 Ensure quality residential accommodation is available for staff delivering health services at the Alice Springs Hospital
Room to Breathe Program - modify dwellings in Areyonga, Atitjere, Engawala, Finke, Hermannsburg, Imanpa, Kaltukatjara, Kintore, Mt Liebig, Mutitjulu, Nturiya, Nyirripi, Papunya, Pmara Jutunta, Titjikala, Willowra, Wilora and Yuendumu		✓			•	•	•	•		 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes
HomeBuild NT - construct new housing in Finke, Hermannsburg, Imanpa, Kintore, Laramba, Pmara Jutunta (Ti Tree), Santa Teresa and Wilora		✓			•	•	•	•		 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes
Government Employee Housing in Arlparra, Engawala and Yuendumu		✓			•	•				 Improve access to housing for government employees in remote communities
Alice Springs - urban public housing		✓			1	1				 Provide safe, secure and affordable housing for people on low incomes
Barkly Region										
Barkly Regional Deal - affordable housing (20 units) for youth, elderly and Aboriginal families - visitor park (camp, cabin and dorms) - 14 Government Employee Houses	✓	✓	✓	✓	16	2	14			 Provide safe, secure and affordable housing for people on low incomes
HomeBuild NT - construct new housing in Ali Curung and Tara		✓			•	•	•			 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes
Tennant Creek - urban public housing		✓			•	9				 Provide safe, secure and affordable housing for people on low incomes
Government Employee Housing in Alpururulam, Borrooloola and Elliott		✓			•	•				 Improve access to housing for government employees in remote communities
Room to Breathe Program - modify dwellings in Ali Curung, Alpururulam, Ampilatwatja, Canteen Creek, Imangara, Tara and Wutungurra (Epenarra)		✓			•	•	•	•		 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine										
Katherine East Neighbourhood Centre - retail and commercial precinct - short term accommodation - lifestyle or retirement village		✓	✓	✓	23	•	•	•		 Provide safe and secure housing to support population growth and improve health outcomes
Yarralin - remote housing - new and upgrades	✓				13	12				 Support housing options within Katherine
Roper Gulf staff housing for local government employees			✓	✓	10	1	1	•	•	 Provide safe and secure housing to support population growth and improve health outcomes
Katherine - urban public housing		✓			•	4				 Provide housing for government employees who deliver government programs in remote communities
Government Employee Housing in Beswick, Lajamanu and Mataranka		✓			•	•				 Provide housing for a growing population
HomeBuild NT - construct new housing in Barunga, Beswick, Binjari, Borroloola, Bulman, Bulla, Daguragu, Kalkarindji, Lajamanu, Manyallaluk, Minyerri, Ngukurr, Pigeon Hole, Rittarangu, Robinson River and Yarralin		✓			•	•	•	•	•	 Provide safe and secure housing to support population growth and improve health outcomes
Room to Breathe Program - modify dwellings in Barunga, Beswick, Bulman, Daguragu, Kalkarindji, Kybrook Farm, Lajamanu, Manyallaluk, Minyerri, Ngukurr and Pigeon Hole		✓			•	•	•	•		 Provide supportive housing for defence personnel and their families



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
East Arnhem										
Galiwinku - Cyclone Lam rebuild	✓	✓			52	3				 Cyclone disaster housing recovery 
Room to Breathe Program - modify dwellings in Angurugu, Galiwinku, Gungarraya, Gapuwiyak, Milingimbi, Milyakburra, Ramingining, Umbakumba and Yirrkala		✓			•	•	•	•		 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes 
Government Employee Housing in Numbulwar and Ramingining		✓			•	•				 Improve access to housing for government employees in remote communities 
HomeBuild NT - construct new housing in Angurugu, Galiwinku, Gapuwiyak, Milingimbi, Milyakburra, Numbulwar, Ramingining, Umbakumba and Yirrkala		✓			•	•	•	•	•	 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes 
Top End Rural										
Pirlangimpi - remote housing upgrades	✓				8	8				 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes 
Additional housing for council staff	✓	✓	✓		5			•		 Provide housing to local government employees who deliver essential services in remote communities 
Room to Breathe Program - modify dwellings in Gunbalanya, Maningrida, Milikapiti, Minjilang, Nauiyu, Nganmarriyanga, Peppimenarti, Pirlangimpi, Wadeye, Wurrumiyanga and Waruwu		✓			•	•	•	•		 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes 
HomeBuild NT - construct new housing in Gunbalanya, Maningrida, Milikapiti, Minjilang, Nganmarriyanga, Pirlangimpi, Wadeye, Waruwu and Wurrumiyanga		✓			•	•	•	•	•	 Reduce overcrowding, provide employment and training opportunities for local Aboriginal people and improve health outcomes 
Government Employee Housing in Emu Point, Nganmarriyanga		✓			•	•				 Improve access to housing for government employees in remote communities 
Palmerston and Litchfield										
Palmerston - urban public housing		✓			•	6				 Infrastructure to support suburban development 

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
John Stokes Square redevelopment^ - Demolition and early works - Nightcliff Police Station - public housing - space for non-government organisations		✓			45	44	•			 Redevelop infrastructure to improve services
Darwin CBD - Daly Street - 60 two-bedroom mixed use residential, serviced apartments and commercial complex				✓	32	•	•			 Provide housing for a growing population and short term accommodation for visitors
Larrakeyah - Packard Place - 140 apartments in three towers with basement car parking				✓	30	•	•			 Provide innovative medium density housing options and create a safe and vibrant place for people to enjoy
Fannie Bay - 7 Waratah Crescent - residential redevelopment		✓		✓	30			•		 Provide innovative and contemporary housing options
Darwin Waterfront - 24 three-bedroom, seven-storey residential development				✓	30			•		 Provide innovative medium density housing options and create a safe and vibrant place for people to enjoy
Larrakeyah - Houston Street - 16 apartments				✓	9			•		 Provide innovative and contemporary housing options
The Narrows - Rubix Apartments - 54 apartments (in two stages)				✓	8		•	•		 Provide innovative and contemporary housing options
Darwin suburbs - urban public housing		✓			•	6				 Provide safe, secure and affordable housing for people on low incomes
New defence houses - Lee Point and Muirhead North	✓				•		•	•	•	 Provide supportive housing for defence personnel and their families



Art, Culture and Active Recreation



An investment into our cultural assets across the Northern Territory will create more local jobs and position the Northern Territory as a world-class tourist and cultural destination.

Central to this thinking is that Aboriginal people, their culture and relationship to the land, are key to our cultural identity and economy.

Under a new Arts Trail tourism campaign launched in late 2018, tourists are being urged to “see the bigger picture on the Northern Territory Arts Trail” and discover a land that is a living, growing exhibition 65 000 years in the making.

It is important to recognise that art, cultural and recreational activities deliver social and economic value to the Territory, improve liveability, contribute to mental and physical health outcomes and help attract new Territorians and visitors.

As our population and visitor numbers grow, coupled with the increase in arts, heritage, cultural and recreational activities, the pressure on the capacity of our infrastructure increases. Visitors expect contemporary offerings at a national standard.

There is increasing pressure for our sporting facilities and community infrastructure, such as

shared path and cycle ways, to be of a standard that enables Territorians to participate and engage in sport, and for our major facilities to support national and international level games.

Prioritising investment in cultural, heritage and recreational infrastructure provides new tourism offerings to attract visitors. It also provides a boost to regional economies as new jobs are created during construction and ongoing visitor expenditure.

Strategic investment in infrastructure is needed to:

- provide accessible sporting infrastructure suitable for our climate that meets the needs of the wider community
- develop contemporary and innovative arts and cultural venues and facilities, informed by sector and community needs
- develop shared multi-purpose facilities to maximise use and reduce individual costs.

PRIORITY PROJECTS

- **National Aboriginal Art Gallery** – to enhance Alice Springs’ reputation as the inland capital of Australia and attract thousands of visitors.
- **Arts Trail** – \$10 million each for art galleries in Katherine, Tennant Creek and Arnhem Land and \$6 million for regional and remote gallery enhancements.
- **Recreational fishing infrastructure program** – \$50 million to deliver boat ramp, car park, CCTV and toilet facilities at fishing destinations across the Territory.
- **Future of Jabiru and Kakadu** – will reposition Jabiru as the cultural gateway to Kakadu.

Key objectives

<p><i>Recognise the value and benefit of arts and culture, particularly Aboriginal art and culture.</i></p>	<p><i>Embrace diversity and access for everyone.</i></p>	<p><i>Develop a coordinated approach to facility investment and planning.</i></p>	<p><i>Expand opportunities for recreation in parks and reserves while protecting their natural and cultural value and assets.</i></p>	<p><i>Improve facility and space planning, provision and sharing to maximise the benefits of sport and recreation events.</i></p>
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Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Enhancements to Northern Territory Government assets - Sport and Recreation - Arts and Museums - Heritage - Parks and Wildlife	✓	✓	✓		140	13	15	•	•	 Enhance liveability through improving community, sporting and recreational facilities
Arts and Museum collection storage expansion		✓			55				•	 Preservation, protection and accessibility of collections
Enhance recreational fishing infrastructure across the Territory^ - artificial reefs - fishing platforms		✓			50	10	17			 Enhance liveability by improving access to recreational fishing areas
Oval upgrades, including lighting in urban, regional and remote areas		✓			27	2		•		 Enhance liveability through improved access to recreation facilities
Park facilities - enhance experience and access for limited mobility visitors		✓			9			•	•	 Improve amenity for community and visitors and enable broad community participation
Regional and remote gallery enhancements connecting the Arts Trail^		✓			6	2	•	•		 Enhance liveability through improved community facilities
New civic centres across the regions		✓	✓		•		•	•	•	 Enhance delivery of local community services
Regional towns and remote community local projects - re-seal internal roads and improve street lighting - enhance tourism and playground facilities - develop walking trails and camp sites - cemetery upgrades		✓	✓		•				•	 Support the development of localised industries and create a sustainable community economy


* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Central Australia										
National Aboriginal Art Gallery^		✓			50	50	•			 Exhibit and preserve Aboriginal art and culture 
Neville Shute Public Library development	✓	✓	✓		22				•	 Improved access to quality education and cultural experiences for the community 
Tjoritja/West MacDonnell National Park^ - Red Centre adventure cycling track - Visitor Experience Centre - Ormiston camping		✓		✓	20	12		•	•	 Expand tourism product to develop the economy and improve liveability 
National Indigenous Cultural Centre^		✓			20		20			 Exhibit and preserve Aboriginal art and culture 
Alice Springs CBD Revitalisation (part of City Deals*)^ - meeting places - shading and water play area	✓	✓	✓		15	15	•			 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy 
Sporting facilities - upgrade Traeger Park - new facility at Kilgariff		✓	✓		10			•	•	 Enhanced liveability through improved sporting facilities 
Central Australia - new multi-day walking track^		✓			6	6				 Expand tourism product to develop the economy and improve liveability 
Arrernte Living Cultural Centre		✓			5	5	•			 Support Arrernte families to share and maintain their culture 
Central Australian Drag Racing Association - construct club house, control tower and canteen facilities		✓			2	2				 Enhance liveability through improved motor sports facilities 
Newland Park improvements - three new BMX tracks, skate park, playground, barbecue facilities and shade		✓	✓		2	1				 Provide facilities for younger people to play and engage and improve community services 
Alice Springs Aquatic and Leisure Centre upgrades			✓		1			•		 Enhance liveability through improved recreation facilities 

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Barkly Region										
Tennant Creek and Culture upgrades connecting the Arts Trail [^]		✓			10	10	•			 Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities 
Purkiss Sporting Reserve upgrades		✓			9	8	•			 Improve amenity for sporting participants and attendees 
New and improved sports facilities in Ampilatwatja, Ali Curung, Elliott and Wutungurra		✓	✓		8	5				 Provide youth with covered playing area 
Improve council buildings facilities (renovating offices, staff accommodation, new outdoor shade areas) in Ali Curung, Alpururulam, Elliott and Tennant Creek	✓		✓		5		2	•		 Improve council services 
Youth Links - specific purpose building	✓		✓		2		2			 Improve council services 
Facilities to improve council services (depot, landfill and hall upgrade) in Ampilatwatja and Tennant Creek	✓		✓		2			•		 Improve council services 
Cemetery upgrades in Ali Curung, Ampilatwatja, Tennant Creek and Wutungurra	✓		✓		1			•		 Improve council services 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Katherine										
Victoria Daly - improve council infrastructure			✓		23	•		•	•	 Enhance liveability through improved community facilities
Katherine Art Gallery extensions - connecting the Arts Trail^		✓			10	10	•			 Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities
Ngukurr multi-purpose sporting and community complex			✓		8		8			 Enhance delivery of local community and sporting services
Katherine Sportsground Master Plan - community centre - water park and water play areas - upgrade pool - barbecue and shade areas	✓	✓	✓	✓	7		5	•		 Enhance liveability through improved sports facilities
Integrated Community Hub - new age interactive library - youth employment centre		✓	✓	✓	6			•	•	 Improve access to recreational activities for youth
Borroloola - Government Business Hub - multi-purpose sporting complex (cyclone shelter)		✓	✓	✓	6	•				 Provide safe and functional environments for sporting participants and attendees
Revitalisation of Katherine Hot Springs		✓	✓		4	•	•	•	•	 Expand tourism product to develop the economy and increase liveability
Katherine Showgrounds upgrade		✓	✓		2	•				 Enhance liveability through improved community facilities
Beswick water park			✓		1			•		 Enhance liveability through improved recreation facilities
East Arnhem										
Arnhem Art Gallery extensions - connecting the Arts Trail^		✓			10	10	•			 Increase visitor numbers and length of stay in the Territory and enhance liveability with improved cultural facilities
Ramingining - oval lighting towers	✓		✓		1	•				 Enhance liveability through improved recreation facilities
Numbulwar combined business centre			✓	✓	1			•		 Support economic development
Numbulwar art and craft centre				✓	1			•		 Enhance liveability through improved community facilities

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Future of Jabiru and Kakadu^ - new power station - mobile and WiFi services - Bininj Resource Centre - road and campground upgrades - Government Services Hub - multi-use medical centre - education precinct - World Heritage Interpretive Centre - luxury hotel accommodation - asbestos management	✓	✓		✓	446	•		•	•	 Re-position Jabiru as a tourism and regional services hub, preserve Aboriginal art and culture as the gateway to Kakadu National Park 
Batchelor town centre revitalisation - recreation hub and swimming pool - bowling greens - basketball and tennis courts - night lighting		✓	✓		5	3				 Enhance liveability through improved community facilities 
Council workshop renovations - Milikapiti, Pirlangimpi and Wurrumiyanga	✓	✓	✓		3		3			 Support council operations and generate local jobs and skills training 
Wadeye Government Centre (Port Keats) - fitout		✓			1	1				 Improve service delivery within the region 
Daly River (Naiyu) - new carpark		✓			1		1			 Increase research capacity and capability in the Territory 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Palmerston and Litchfield										
Litchfield new municipal infrastructure - community and business hub / library - aquatic centre with 25 metre pool - performing arts centre	✓	✓	✓		25	•	•	•		 Enhance liveability through improved recreation facilities
Freds Pass Reserve Master Plan		✓	✓		12	2		•	•	 Enhance liveability through improved community facilities
Splashing Out - revitalise the Swimming and Fitness Centre - learn to swim community hub	✓	✓	✓		10	5	5			 Enhance liveability through improved community facilities
Rosebery Sporting Hub - hockey and baseball facilities - carpark expansion		✓			10			•		 Enhance liveability through improved sports facilities
Where We Live Matters (community centre) - community hub - digital and e-gaming hub - community garden and kitchen - playground and dog park	✓	✓	✓		6	1	2	•		 Enhance liveability through improved community facilities
Howard Springs Nature Park - new rangers' office, exhibit area, kiosk and picnic facilities		✓			6			•		 Enhance liveability through improved park facilities
Liveable Cities - increased green cover through tree planting - upgrading shop fronts and providing shelter	✓	✓	✓	✓	4	1	1	•		 Enhance liveability through improved community facilities
Making the Switch - lighting expansion - LED renewal		✓	✓		3	1	1	•		 Enhance liveability through improved community lighting
Berry Springs Nature Park upgrades		✓			2			•		 Enhance local and tourist experience
Rail Trail - Howard Springs to Berry Springs bike path		✓			2				•	 Expand tourism product to develop the economy and increase liveability
Palmerston Charles Darwin Campus Oval 2 lighting		✓			1	1				 Support the future of cricket
Temple Terrace landscaping upgrade			✓		1		1			 Enhance liveability through improved community facilities
Mira Square - meeting and play areas in Southport			✓		1			•		 Enhance liveability through improved recreation facilities

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Darwin CBD Revitalisation (part of City Deals*)^ - greening and cooling initiatives (including Cavenagh Street pilot) - State Square underground car park - activate laneways - Art Gallery at State Square	✓	✓	✓	✓	100+	32	•			 Unlock business and industry development opportunities and create a safe and vibrant place for people to enjoy
Casuarina Square - shopping centre expansion				✓	•		•			 Enhance liveability and support economic development
George Brown Darwin Botanic Gardens^ - new plant display house - essential services, path network and irrigation upgrade - ephemeral wetland with boardwalk - new entrance and car park - Friends of the Gardens work area upgrade		✓			19				•	 Expand tourism product to develop the economy and increase liveability
Darwin International Airport - Darwin Airport Central - Bagot Road retail development - Osgood West Village				✓	16		•			 Enhance the airport precinct to cater for locals and visitors



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
Darwin Turf Club – new multi-purpose grandstand		✓			12	12				 Provide a world-class sporting experience for local, interstate and international attendees 
Casuarina Coastal Reserve - Dripstone Cliffs upgrades - Rapid Creek site upgrades		✓			11		1	•	•	 Enhance liveability through improved park facilities 
Darwin Velodrome precinct - track upgrade - lighting improvements - new pump track		✓	✓		10	10				 Provide a standardised track to enhance the sporting experience of participants and attendees 
NT Rugby Union facility upgrade		✓			10				•	 Provide a safe and functional environment for sporting participants and attendees 
Fannie Bay Gaol visitor centre		✓			9				•	 Enhance historical facilities 
Richardson Park - access road extension - demolition of structures - upgrade playing field and landscaping - new ablutions		✓			7	2	5			 Provide safe access to Ludmilla Primary School and Richardson Park 



Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Darwin										
TIO Stadium upgrades - new facilities field 2 - surface renewal oval 1 - refurbish corporate facilities		✓			6	2		•		 Improve stadium facilities to grow AFL
Government House remedial works		✓			4	3				 Ensure stabilisation of slope and building
Leanyer Recreation Park - upgrade play areas - upgrade car park		✓			4	2		•		 Enhance liveability through improved recreation facilities
Myilly Point culture and recreational precinct - landscaping and playground		✓			3	3				 Create a safe and vibrant place for people to enjoy
Independent Commissioner Against Corruption (ICAC) - fitout office space and hearing room		✓			2	2				 Ensure improper conduct is investigated and actioned appropriately
Marrara Cricket Ground Oval (MCG1) lighting	✓	✓			2	2				 Support the future of cricket
Cycle path from Muirhead to Lee Point		✓			2	2				 Enhance safety, accessibility, connectivity and amenity
Parliament House - audio-visual control system		✓			1	1				 Continue to record and broadcast the Legislative Assembly
Larrakia Cultural Centre [^]		✓		✓	•			•	•	 Exhibit and preserve Aboriginal art and culture

Digital



Digital technologies are transforming the Northern Territory and connecting the remotest locations to the world.

The key to digital transformation in the Territory is connecting all Territorians to online services, providing business opportunities, social connections and better government services such as education and health.

Telecommunications is an essential service and enabling technology that connects people and provides access to digital technologies worldwide. This requires robust telecommunications infrastructure and presents challenges to effectively service the Territory's relatively small and widely dispersed population.

Digital inclusion can be life changing, particularly for people living in remote locations, and can make distance no longer a barrier.

The Australian Government regulates and supports telecommunications services nationally. The National Broadband Network provides broadband communications across Australia and has developed Darwin as the only gigabit connected capital city in Australia.

Keeping pace with changing technology is a shared challenge, and a great opportunity to deliver digital services that meet community needs at an affordable price.

Industry and governments need to work together to expand telecommunications infrastructure into more remote locations to provide the foundation that underpins developing digital skills, jobs and businesses.

High quality reliable telecommunications, clever use of digital technology and access to contemporary

digital services will help shape the Territory's economic future.

Digital transformation will inspire innovation and global connectivity, develop opportunities for job creation and small business, reduce the need for long distance travel and connect people and communities when travel is not possible. Importantly, digital advances will help expand social networks and improve community safety.

Investment in digital technology from the private sector and all levels of government is needed to:

- improve telecommunications access for Territorians, particularly in rural and remote communities
- help close the gap between Aboriginal and non Aboriginal Territorians by being more digitally inclusive
- encourage technology innovation from the private sector
- connect Territory businesses, regardless of location, to local, interstate and global markets.

PRIORITY PROJECTS

- **Telstra and Northern Territory Government remote telecommunications co-investment programs** – continue to progress telecommunications infrastructure installations at priority remote locations.
- **Barkly Regional Deal** – new weather radar.


Key objectives

Telecommunications that deliver long term benefits to urban, rural and remote communities across the Territory.

Realising the value of government data holdings by progressing plans to share a broader range of data with industry and community to develop new business and services.

Fostering investment, innovation and digital skills through agile responses to new technology and market opportunities.

Integrating online and over the counter services to make it cheaper and easier for community and businesses to interact with government.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Territory Wide										
Mobile and/or broadband services (possible joint co-investment program)		✓		✓	30				•	 Expand mobile services to improve regional and remote connectivity
Mobile and/or broadband services (joint co-investment program)		✓		✓	28	8	8		•	 Expand mobile services to improve regional and remote connectivity
First responders P25 radio communication system upgrade		✓			10	2	2		•	 Provide a specialist digital voice and data system for police, fire, emergency services, St Johns, Federal Police, Larrakia Nation and other first response organisations
Information communications technology (ICT) cabling upgrades in schools	✓				8	3	4			 Improve education outcomes through better connectivity
Digital Partnership Grants Program		✓		✓	1	1			•	 Grants provided to encourage developing innovative digital solutions with funding matched by partners
Central Australia										
Real-Time Earth facility				✓	•	•	•			 Support Earth observation
Barkly Region										
Barkly Regional Deal - new weather radar ^	✓	✓			15		15			 Improve road and air travel safety and support agricultural, pastoral, transport and mining industries.
Katherine Region										
Radio communication enhancement in remote parks		✓			1				•	 Improve communication in remote parks for ranger safety

* A lesser figure in the 2019-20 and 2020-21 columns than in the Total Estimate column indicates either previous year expenditure or expenditure in outer years, in some instances beyond the 10 year term.

^ Indicates projects that display in two sectors.

Project	Prospective Contribution				Total \$m Estimated Cost	Funding (\$m)		Sequencing		Key Drivers
	AG	NTG	LG	PRIV		2019-20	2020-21	Medium Term (3-5 Years)	Longer Term (6-10 Years)	
Top End Rural										
Kakadu Mobiles Co-investment Program	✓	✓		✓	8	3	3	•		 Expand mobile services to improve connectivity
Palmerston and Litchfield										
Smart Cities - CCTV and smart LED technologies	✓	✓	✓		2	1	1			 Improve interface between local government and the community
Darwin										
Commercial Data Centre Park, including - electrical network upgrades - communications network upgrade				✓	380			•		 Supports the evolving technology and digital industries, subject to outcome of feasibility studies
State Square redevelopment - relocate Northern Territory Data Centre		✓			13	7				 Enhance data collection, storage and distribution
Switching on Darwin - city-scale smart infrastructure - smart services (lighting, parking, Wi-Fi)	✓		✓		10		•			 Smart technology combined with open data will help rejuvenate the city and stimulate new partnerships and business growth
International telecommunications links				✓	•		•	•		 Enabling digital Territory and creating digital opportunity



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Halikos Group (Northcrest)

Kalidonis Pty Ltd

Katherine Town Council

Litchfield Council

MacKillop Catholic College

Northern Territory Airports

NT Farmers Association

NT Land Corporation

NT Road Transport Association

NT Seafood Council

PEET (Durack Heights)

PTM Group

Roper Gulf Regional Council

Tiwi Island Regional Council

Tourism NT

URBEX (Zuccoli Village)

Victoria Daly Regional Council

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West Arnhem Regional Council

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