



Australian Government
**Department of Industry,
Innovation and Science**

Business

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Smart Cities and Suburbs Program Application Form

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Instructions

About the Smart Cities and Suburbs Program

The \$50 million Smart Cities and Suburbs Program supports the Australian Government's commitment to help local governments and communities use smart technology and increase the accessibility and use of public data so that:

- cities, suburbs and towns become more liveable, productive and sustainable and
- urban service delivery becomes more efficient and effective.

In line with the [Smart Cities Plan](#), the program supports projects that apply smart technology, data-driven decision making and people-focused design to deliver economic, social and environmental benefits in metropolitan and regional urban centres.

Projects will deliver innovative solutions that transform the government sector, advance community goals and address the needs of residents. The program will help to establish smart city innovation eco-systems and move Australia towards a global leadership position in smart city solutions.

Collaborative projects involving partners across multiple sectors and urban centres will:

- grow smart cities capability and capacity through shared knowledge and expertise
- drive innovation and wide adoption of solutions
- advance standards and improve regulation
- realise greater outcomes through maximum leverage of program funding.

The program will run over three years from 2016-17 to 2018-19 and may involve multiple rounds. Separate program guidelines will be issued outlining the arrangements for any future rounds of the program and will be available on business.gov.au.

Completing this form

Please read the [Program Guidelines](#) before completing this application form. Projects must have in-principle support from a local government agency or body at the time of application.

Disclosure of information

The Commonwealth's use and disclosure of your information (provided in this application or otherwise) is set out in the Smart Cities and Suburbs [Program Guidelines](#).

Google Places

The address search fields in this form use Google Places to help fill in the address details. By using this feature you agree to be bound by [Google's Terms of Service](#) and are subject to [Google's Privacy Policy](#).

Getting help

If you require assistance completing this application form please contact us on 13 28 46 or at business.gov.au. Our website and staff can help you with forms, finding business information and services and allow you to provide feedback, comments or suggestions.

You should also read and understand the [Program Guidelines](#) and general grant agreement before completing an application. View these documents at business.gov.au.

Requirements

This form functions best when it is completed using the most recent version of your internet browser. This form is not compatible with Internet Explorer 8 or earlier browsers. If you are using an earlier browser version, you may have difficulty in displaying the form correctly or it may not display at all.

Important information

Save Regularly. Click the 'Save for Later' button regularly while completing this form to ensure the information entered is saved. Saved forms will be retained for a maximum of 60 days. If you do not save or submit your form within this timeframe, you will need to start a

new form.

Do not use your internet browser's 'back' or 'refresh' buttons as this will cause the form to close and any unsaved information will be lost. Navigate between sections of the form by using the tabs at the top of the form or by clicking 'Continue' or 'Go Back' at the bottom of each page.

Sharing the form

The form can be viewed by more than one person by sharing the form's unique tracking code. However, sharing the form increases the risk of losing unsaved information. The reason for this is that only one person at any one time, has saving permissions for the application form. If the form is shared, save regularly as the last person that accesses the form has the saving permission. It is recommended that the form tracking code is not shared widely so as to avoid inadvertent loss of information.

Attachments

All attachments marked as required must be attached before your application can be submitted. Files with ".pdf, .rtf, .doc, .docx, .xls, .xlsx" extension types can be uploaded. Total file size of all attachments in the application should not exceed 20MB. Please note that there is a size limit of 2MB per attachment.

Submitting your form

Applications may be submitted at any time up until 5.00pm AEST on 30 June 2017.

You will be provided with a receipt to confirm that your submission has been successful. Please keep this receipt for your records by using the "Download the form and receipt" link or by emailing yourself a copy of the receipt and submission. Both of these options are available in the "To keep a copy of the completed form" box on the Submission Complete page.

If you have any enquiries relating to submission of your form, you will need to provide your receipt number.

Eligibility

Eligibility

This section will help you determine whether you are eligible to apply for the program.

Does your organisation have an ABN? *

For trustees applying on behalf of a trust, this refers to the ABN of the trust.

Yes

No

Is your organisation registered for GST? *

Yes

No

Select your type of organisation from the list below. *

Only the entity types listed below are eligible to apply for the program. Please refer to the [Program Guidelines](#).

a local government agency or body as defined in Appendix A of the program guidelines.

This includes the ACT Government

an entity incorporated in Australia

an incorporated trustee on behalf of a trust

a not for profit organisation

a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Will your project involve at least one private sector organisation during the life of the project? *

If you already have private sector project partners in place, later in this application you will need to attach a letter of support from the Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

We recognise that local governments, not for profit organisations and PFROs may not be able to nominate a private sector partner at the time of application. However in this application you must identify the goods and services that you will procure for your project.

Yes

No

Can you provide evidence that your project has in-principle support from a local government agency or body? *

Later in this application you must provide evidence of in-principle support by:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Yes

No

Are you able to start your project within two months of signing a grant agreement with the department? This can include procurement planning. *

We anticipate that grant agreements will be in place by 20 October 2017.

Yes

No

Does your project have at least \$200,000 in eligible expenditure? *

The minimum grant amount is \$100,000 (with a minimum project value of \$200,000). The maximum grant amount is \$5 million however the maximum project value can exceed \$10 million. Please refer to Appendix B of the [Program Guidelines](#) for more information on eligible expenditure.

Yes

No

Can you provide evidence that you can fund your minimum 50 per cent share of eligible project costs from funding sources other than the Commonwealth? *

Yes

No

Later in this application you must provide a letter from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each partner organisation outlining their contribution, and confirming they can fund their share of project costs.

Applicant information

Project partners

You are required to provide details of the project partner organisations.

Do you have project partners in place for your project? *

You must start your project within two months of executing a grant agreement, which can include planning for procurement.

Yes

No

The lead applicant must complete this form and if the application is successful will enter into a grant agreement with the Commonwealth.

Please list all the project partner organisations for this application, starting with the lead applicant. If the lead applicant is a trustee of a Trust, enter the Trust's ABN.

Please enter the ABN of all Australian partners in the application and click the Validate button to retrieve your registration details.

Lead Applicant

Australian Business Number (ABN) *

11 503 313 301

Australian Company Number (ACN)

Entity name

CITY OF DARWIN

Letter of in-principle commitment from your organisation including ability to co-contribute funding *

You must attach a letter from your Mayor, Chief Executive Officer or Chief Financial Officer with in-principle commitment to the project and in-principle allocation of the funding your organisation will contribute to the project.

File: CoD Lord Mayor Letter of Support.pdf

Project partner 1

Australian Business Number (ABN) *

84 085 734 992

Australian Company Number (ACN)

Entity name

NORTHERN TERRITORY OF AUSTRALIA

Select the type of entity for the project partner: *

a local government agency or body

An entity incorporated in Australia

an incorporated trustee on behalf of a trust

- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$2,500,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- *a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- *an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- *details of the project partner organisation*
- *an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project*
- *details of any cash contributions to the project*
- *an outline of the relevant experience and/or expertise the organisation will bring to the group*
- *the roles and responsibilities of the organisation, and the resources it will contribute (if any)*
- *details of a nominated management level contact officer.*

Letter of support from project partner organisations *

File: Partners & Suppliers Letters of Support.pdf

File: Merit Criteria 1_Support.pdf

File: NT Government Financial Support (\$2.5m) - Signed by Chief Minister.pdf

File: CoD Lord Mayor Letter of Support.pdf

File: Smarter Together_Document Table of Contents.pdf

Type of applicant

In this section you must indicate what type of entity you operate under.

All entities must have an ABN.

All entities must be non-tax exempt incorporated organisations.

Select which type of entity your organisation is: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Applicant details

These details have been populated from the lead applicant information entered above.

Australian Business Number (ABN) *

11 503 313 301

Australian Company Number (ACN)

The entity name refers to the name that appears on all official documents or legal papers. The entity name may be different from the business name.

Entity name

CITY OF DARWIN

Your business may have registered one or more business names. If you operate under a business or trading name you can enter alternate name(s) here. If your business or trading name is not listed here select 'other'.

Business/trading name

THE CITY OF DARWIN

GST registered

ANZSIC details

What is the applicant's main business activity under the Australian and New Zealand Standard Industrial Classification (ANZSIC)?

The Australian and New Zealand Standard Industrial Classification (ANZSIC) is a classification system used by government to group data about organisations based on their primary business activity.

The ANZSIC codes and titles are available from the [Australian Bureau of Statistics \(ABS\) website](#). Phone 13 28 46 if you require assistance.

ANZSIC division *

ANZSIC class

Address details

Provide your Organisation Street Address (Australian Head Office)

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the Postal Address the same as the Organisation Street Address entered above? *

Yes

No

Provide your Organisation Postal Address

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

Darwin City

State *

NT

Postcode *

0801

Website address

Provide your organisation's website address

www.darwin.nt.gov.au

Project site address

Will the project's activities occur solely at the above listed head office address? *

A project site address must be a street address, not a postal address.

Yes

No

Latest financial year figures

Has the applicant existed for a complete financial year? *

Yes

No

Select the latest complete financial year. *

2015/16

Latest financial year figures

We collect the following data from all applicants across all grant programs. We use this data to better understand your organisation and to help us develop better policies and programs.

All amounts in the table below must show a whole dollar value e.g. \$1 million should be presented as \$1,000,000. The turnover value must be that of the entity that is making the grant application (the 'applicant'), regardless of whether the entity belongs to a consolidated group for tax purposes.

These fields are mandatory and entering \$0 is acceptable if applicable. If they clearly do not apply to your organisation you may select not applicable.

FY 2015/16

Sales revenue (turnover) *

\$119,000,000

Not applicable

Total revenue from the sale of goods and services, as reported in the applicant's Business Activity Statement (BAS).

Export revenue *

Not applicable

Total revenue from export sales, as reported in the applicant's Business Activity Statement (BAS).

R&D expenditure *

Not applicable

Expenditure on Research and Development, i.e. creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

Taxable income *

Not applicable

Taxable income or loss as per the Applicant's Business Income Company Tax Return Form.

Employees, including working proprietors and salaried directors (headcount) *

316

Not applicable

Number of individuals who are entitled to paid leave (sick and holiday), or generate income from managing the business.

Independent contractors (headcount) *

39

Not applicable

Number of individuals engaged by the business under a commercial contract (rather than an employment contract) to provide employee-like services on site.

Ultimate holding company

Does the applicant have an Ultimate Holding Company? *

Yes

No

Project details and funding

Project title and description

If your application is successful, the details you provide below will be published on the departmental website. Published project details will include:

- name of the applicant
- title of the project
- a description of the project and its intended outcomes
- amount of funding awarded.

Provide a project title. *

If the application is successful, this project title may be used by the Australian Government in published material.

Example project title: Eastern Suburbs Council Smart Waste Collection Project.

Smarter Together: People, Place and Partnerships

Provide a brief project description for publication on our website. *

Ensure your project description focuses on your project's key activities and outcomes. Explain what it is you are going to do and how it will help local governments and communities use smart technology and increase the accessibility and use of public data.

Example Project Description:

Transition Pty Ltd's smart infrastructure project to integrate sensors, vision systems, and wireless and network controls to share mass communication about traffic and weather conditions.

Transition Pty Ltd's smart precincts project to improve building comfort, through mitigation of urban heat and other weather extremes using intelligent systems.

'Smarter Together' led by the City of Darwin embraces a collaborative, inclusive and connected community.

The world leading infrastructure catalyses innovative partnerships and pioneers new technologies to enable a safe, vibrant, flexible lifestyle. It will create an environmentally sustainable City & accelerate place making activities to expose a culturally rich City.

The smart infrastructure is built on interoperable open standards, open data, and a unique suite of smart technologies including intelligent LED's, multi-tier communication networks, community apps & amenity enhancing solutions.

The project will rejuvenate the City Centre and serve as a pilot for expansion of smart technology across the municipality, the NT and Australia

Project priority area

Which priority area does your project align with?

You can select more than one. More detail on the priority areas can be found in Table 1 of the program guidelines.

- Smart Infrastructure
Improving the efficiency, reliability, delivery and maintenance of infrastructure and essential services
- Smart Precincts
Making community precincts more liveable, productive, sustainable and safe
- Smart Services and Communities
Delivering community focussed local government services
- Smart Planning and Design
Building adaptable and resilient cities through improved land use, strategic planning and governance

Summary of activities and outcomes

Provide a summary of your project, including the key activities and project outcomes. Detail the challenge your project will address using a smart technology solution. List any products or services you will procure as part of the project.

Darwin is experiencing challenges as it transitions to Australia's gateway to Asia. Forces and influences that characterise the economic and social environment include anti-social behaviour, homelessness, business and tourism downturn. The deployment of smart infrastructure will catalyse change. It will connect business, residents and tourists. It will make the city more vibrant, livable and productive. New services will be built on interoperable open standards, an open data portal and an IoT platform. The smart connected infrastructure will utilise upgraded lighting poles controlled by the City supporting a multi-tiered (high, medium and low bandwidth) communication network including: fibre, RF, Wi-Fi, LoRaWAN and 4G. It will include: cutting edge lighting controls; HD CCTV with video analytic software; community Apps running over the expanded Wi-Fi network; and a suite of sensors including noise, movement, emissions, humidity, light, traffic and people counting, 3D space analysis.

Project milestones and key activities

The start date of milestone 1 is the expected project start date. The end date of your last milestone activity will be the project end date.

Include timeframes for any procurement activities, including finalisation of any tenders, and when you expect to have engaged project partners.

We make an initial payment on execution of the grant agreement covering up to 6 months of eligible expenditure. We will make subsequent payments in arrears based on your achievement of activities and your eligible expenditure.

Milestone 1

Milestone title *

Funding announcement - project commencement

Milestone description *

Project will commence when the funding agreement has been signed (assumed to be 20/10/17). CoD will have undertaken several tasks to ensure the project is 'shovel ready', including:

- allocation of labour resources
- research and data gathering of smart technology
- data portal research
- data management research
- stakeholder and community engagement preparation

Milestone start date *

20 Oct 2017

Milestone end date *

20 Oct 2017

Milestone 2

Milestone title *

Establish Project Advisory Board

Milestone description *

CoD will develop a Project Advisory Board to oversee the project and provide strategic direction. The Board will include representation from NT Government, Council, Industry and the community. The Board will provide guidance to:

- group/individual roles and responsibilities
- project progression and finance
- project management documentation creation/finalisation
- KPI's, metrics and critical success factors

The Board will meet quarterly for the duration of the project

Milestone start date *

20 Oct 2017

Milestone end date *

01 Nov 2017

Milestone 3

Milestone title *

Establish Smart Cities Working Group

Milestone description *

CoD will connect with other successful applicants to share knowledge and experience. The objective of the working group will be to ensure consistency and provide a united approach to inter-jurisdiction smart infrastructure implementation. Activities will include:

- ensure inter-jurisdiction consistencies (eg. data collection categories, data language, metrics)
- Explore opportunities for project synergies
- Share challenges and solutions

Milestone start date *

20 Oct 2017

Milestone end date *

15 Dec 2017

Milestone 4

Milestone title *

Form data portal partnership and pilot system

Milestone description *

CoD will engage with potential data portal vendors prior to 20/10/17 to ensure a partnership can be developed and the portal implemented soon after successful funding announcement. Key activities will include:

- EOI to data portal providers (e.g. CKAN)
- Industry input
- Contract negotiations
- Contract award
- Portal system architecture development
- Release

The portal development provide the foundations to the data management/catalog which occurs concurrently

Milestone start date *

20 Oct 2017

Milestone end date *

31 Dec 2017

Milestone 5

Milestone title *

Community App Development

Milestone description *

A concentrated community App develop phase will follow every Hackathon. Apps will be developed from identified needs (eg. business, tourism, anti-social), Hackathon ideas and local business problem identification workshops. Money allocated in the project budget will the creation of these Apps, with the potential for private industry contribution (such as the Paspalis/Charles Darwin University Innovation Hub). Apps will be available for download from the CoD website and common App platforms.

Milestone start date *

15 Dec 2017

Milestone end date *

15 Mar 2018

Milestone 6

Milestone title *

Phase 1 (anti-social/problem areas) of LED's and smart controls complete

Milestone description *

CoD will gain ownership of street lights and poles from Power & Water Corp. on 1/1/2018
Phase 1 will focus on anti-social/problem areas such as taxi ranks, Civic Park and areas of Smith St. Works will be based on the

procurement of operations & maintenance, LED luminaries and smart controls conducted from Oct-Dec 2017.
A community survey will be conducted post Phase 1 to understand perceptions and issues that can be addressed in Phases 2 and 3 or other areas of the Smart Cities project.

Milestone start date *

01 Jan 2018

Milestone end date *

15 Mar 2018

Milestone 7

Milestone title *

Completion of Installation of Wi-Fi Base Stations & relays (Phases 2 and 3)

Milestone description *

Note: CoD will install additional WiFi Base Stations & Relays to Smith St (incl. The Mall) and Knuckey St - supporting current WiFi infrastructure to create a consolidated WiFi network.

Phase 2 will focus on the entertainment precinct/Mitchell St while Phase 3 will focus on Bi-centennial Park and remaining City Centre precincts. Both phases will integrate community feedback to ensure better delivery of Wi-Fi across the City Centre.

Milestone start date *

10 Mar 2018

Milestone end date *

01 Aug 2018

Milestone 8

Milestone title *

Selection of Preferred Vendor (s)

Milestone description *

Based on the assessment of tender submissions, the Council will select the preferred vendor (s). The selection merits will include, but not limited to:

- Capacity to delivery
- Experience
- Innovation
- Value for money
- Local content
- Alternative solutions

Post selection, contract negotiations and award will take place with the manufacturing of agreed smart infrastructure.

Milestone start date *

02 Jul 2018

Milestone end date *

31 Jul 2018

Milestone 9

Milestone title *

Completion of LED and Smart Control Roll out (Phases 2 and 3)

Milestone description *

Phase 2 will focus on entertainment precincts and 30% of Bi-centennial Park and Phase 3 will include the remaining 70% of Bi-centennial Park, City Centre roads and lane ways.
The works will incorporate any feedback gained from the survey to ensure there is minimal disruption and strong community buy-in. By 1/4/19 all lights will have smart LED's and controls. A community survey will be conducted upon completion to understand perceptions and any issues

Milestone start date *

16 Apr 2018

Milestone end date *

01 Apr 2019

Milestone 10

Milestone title *

Project Completion

Milestone description *

The project will conclude (anticipated to be 1/5/19) when all smart infrastructure is deployed and sensors effectively capture data for open publication through the secure online portal. Key activities related to conclusion include:
- Community Feedback
- Smart Cities and Suburbs Program funding acquittal

Milestone start date *

01 May 2019

Milestone end date *

01 May 2019

Project duration

Project Start Date

20 Oct 2017

Project End Date

01 May 2019

Project budget

Provide details on your total eligible project costs over the life of the project. This includes the requested grant funding and all co-contributions.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

We only provide grant funding based on eligible expenditure. Refer to the [Program Guidelines](#) for guidance on eligible expenditure.

Cost item	FY 2017-18	FY 2018-19	Total
Labour costs	\$0	\$0	\$0
Contractor costs	\$1,557,250	\$3,942,950	\$5,500,200
Intellectual property and technology acquisition	\$260,123	\$3,339,473	\$3,599,596
Other costs	\$0	\$900,204	\$900,204
Total project costs	\$1,817,373	\$8,182,627	\$10,000,000

Project Budget *

For projects over \$1 million you must attach a detailed project budget.

File: Smarter Together_Budget_Final.pdf

Project Plan *

For projects over \$1 million you must attach a detailed project plan.

File: Smarter Together_Project Management Plan_Final.pdf

Source of funding

Complete the table below to show how the applicant will fund the eligible project costs.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

a. Applicant's contribution (\$A) *

\$2,500,000

b. Total project partner contribution (\$A)

\$2,500,000

c. Program grant amount (\$A) *

\$5,000,000

d. Other non-Commonwealth Government funding (\$A)

e. Total eligible project costs (\$A)

\$10,000,000

f. Grant percentage

50

Total government grant percentage (%)

50

The project cannot be funded by this grant in conjunction with any other Commonwealth grant. The total Commonwealth funding cannot exceed 50%.

Supportive documents

Provide the names of documents that you can provide to support your estimated project costs

Smarter Together_Budget_Final. The budget has been developed through engagement with industry experts and robust financial oversight. Evidence of engagement is available on request.

Examples of supporting documents are equipment supplier quotes, contractor quotes, invoices etc. You do not need to submit these with this application form. However, if your application is successful you will be required to submit these documents before the grant agreement is finalised.

You can find more details in the [Program Guidelines](#).

Merit criteria

To be competitive you will need to score highly against each merit criterion. Your application will be assessed against the indicators listed beneath each merit criterion. The merit criteria are weighted as indicated by the points. The amount of detail and supporting evidence you provide should be commensurate with the project size, complexity and grant amount requested.

You may attach any other documents that support your application and/or claims made in relation to the merit criteria.

Merit criterion one (30 points)

The extent to which your project is innovative and uses smart technology and open data *

In assessing this criterion, we will consider:

- *The extent to which your project is innovative (see section 5.3 of the program guidelines).*
- *The extent that your project will promote open and accessible data*
- *The extent to which your project uses Smart Technology*
- *The degree that your project supports interoperability of systems and uses available standards, particularly open standards. Examples of existing open standards include data models based on CitySDK, data platforms based on CKAN, APIs based on the FIWARE NGSI API framework, and information discovery standards like Hypercat.*

This lighthouse project will unlock critical funding for CoD to establish leading edge infrastructure that is aligned with the City's future vision and digital strategy. It will connect people, it will create new places and it will catalyse innovative partnerships. Crucially, it will enable CoD to boost the vitality of this critical strategic location as Australia's 'Gateway to Asia', the hub of the Australia's US defence program (essential for future international status) and a growing port of call for cruise ships (providing vital economic boosts in the wet season).

CoD is in a unique position in Australia to deploy this smart infrastructure. From 1 January 2018 it will be one of the first local governments to have total ownership of its lighting network and unencumbered autonomy to upgrade the existing infrastructure with a full array of smart controls, environmental sensors, high definition cameras and other smart devices.

The key areas of innovation are:

Smart lighting: The earliest, large-scale smart networked public lighting controls deployment in Australia integrated with a smart city platform. The luminaries, smart controls interface and lighting column form a backbone of a 'smart infrastructure ecosystem'. Lights will be fitted with LED luminaries using Zhaga Book 18-compliant power supply technology employing the DALI 2.0 protocol. This standardises robust interfaces and enables integration of smart controls with sensors and actuators, capturing data from various inputs and allowing remote and automated system control. This will allow the public lighting to be truly adaptive in response to programming (day of week, time of night, season), environmental conditions (including noise levels, light, weather) and over-rides by CoD and the emergency services.

CoD will lead Australia's smart lighting best practice. Working with the Institute of Public Works Engineering Australasia (IPWEA), it will be the first city to use the model LED and smart controls specifications developed by the IPWEA Street Lighting & Smart Controls Programme with Commonwealth support.

High, Medium and Low Bandwidth Communication Networks: The City will pioneer the deployment of a multi-tier communication network integrating an open, interoperable Smart City IoT platform. Existing fibre will support the high-bandwidth needs of HD CCTV and expanded Wi-Fi. A medium-bandwidth RF network will support public lighting and controls, environmental sensors, smart bins and irrigation controls. A low-power multi-provider network (eg. LoRaWAN) will be deployed for low-power, low bandwidth sensors and actuators. This integrated network provides the foundation for other smart infrastructure building blocks. Once proven, the low cost replicable nature of the medium and low bandwidth networks will enable rapid expansion of a full array of smart city devices into the suburbs and the scaling of high bandwidth network to key locations.

Smart Parking: 60% of City Centre employees drive to work, and parking is a problem. Light pole and in-ground smart parking sensors will be deployed to monitor 807 on street parking bays as well as 753 bays in two multi-story parking lots. The sensors will provide real-time driver information via an open API that can be used by multiple existing apps. Digital way-finding signage at key city gateways will increase parking efficiency and reduce congestion. Smart parking will enable CoD to both attract more visitors into the City Centre and optimise revenues by adopting agile demand based pricing strategies.

HD CCTV: The high-bandwidth network to deploy HD CCTV at City Centre entrance points, entertainment precincts and community spaces such as Bicentennial Park. The project will pilot video analytics tools to analyse traffic flows, pedestrian movement, bicycle movement and provide recognition capabilities to NT Police. This infrastructure will assist authorities to address road trauma, crime and inform town planning.

Community Apps: The high-bandwidth network will enable an expanded Wi-Fi network, which is critical to both diversify tourism offerings and empower disadvantaged individuals to connect and engage with the community. Wi-Fi zones will be established along key tourism routes and shopping/entertainment precincts. The coverage will enable new apps to support tourism, retail and the community, providing access to community experiences and critically, provide disadvantaged individuals the tools to improve quality of life by

allowing council, other agencies and NGOs to provide more effective services.

Open Standard Platform: Infrastructure will connect to a Hypercat (PAS 212: 2016) enabled Open Standard IoT Platform and comply with open data practices and standards (PAS 184: 2017) to ensure interoperability between diverse smart technologies across the smart infrastructure. Open data will be categorised and published using CKAN, a leading portal used by cities across the world.

Merit criterion two (30 points)

The scope of social, environmental and economic benefits your project will deliver *

In assessing this criterion, we will consider:

- *The level of social, environmental and economic project benefits to be gained. This may include improving:*
 - *the efficiency and effectiveness of and access to local government services and facilities*
 - *the health and quality of the natural environment, including increased efficiency in the use of natural resources*
 - *the financial sustainability of your community, including generating an ongoing revenue stream, cost savings, or leveraging investment from third-parties.*
 - *the urban environment, including safety, design landscape and green infrastructure*
 - *business and industry development including job creation and skills development*
 - *social equity and community cohesion*
- *The degree to which your project will transform the government sector:*
 - *by serving as a demonstration of best practice for others and the potential to scale up, roll out or replicate your solution in other communities; and/or*
 - *by supporting improved regulation.*

By revitalising the City Centre, which has experienced a significant economic downturn and the impacts of anti-social behaviour, the 'Smarter Together' project positively and constructively addresses critical social, economic and environmental issues faced by the community. According to the Safer Vibrant Darwin Plan 2016-2019, 77% of local survey respondents perceive the City Centre as a safety risk due to poor lighting and anti-social behaviour. This perception must be changed in order for the city to prosper. The project funding presents a lifeline to reverse this downward spiral. It will deliver short, medium and long-term sustainable outcomes. The carefully planned smart infrastructure will create vibrancy that will lead to: increased tourism; employment growth; improved welfare; a greater sense of a united community. It will also lead to reduced energy consumption and lower emissions. Smart technology and infrastructure will bring the community together through exciting and inclusive new places across the city parks and entertainment areas, attracting pop-up restaurants, outdoor markets and safer streets. It will make the City Centre more liveable for its residents and help the less fortunate and homeless access social services. It will encourage locals and tourists to spend more in the city and help local businesses grow. New and exciting experiences will encourage tourists to stay longer, increasing their contribution to the economy. If tourists increased their stay in CoD by as little as half a day it would provide an additional \$86m to the Darwin regional economy p/a, stimulating retail turnover and reducing the high (22%) commercial vacancy rate. Increased vibrancy will encourage visitation by residents, contributing to growth in turn over and employment. This project will create a collaborative ecosystem of partnerships between the city and business. It fully supports the CoD's vision of a smart municipality. The City Centre will be a pilot location, providing an opportunity to quantify benefits and validate the lower cost replication. Expansion across the municipality will increase the benefits by an order of magnitude and create opportunities for dynamic new revenue streams to sustain the infrastructure. Better quality lighting (responding to integrated sensors) with colour and brightness optimised will make spaces both safer and more appealing. This will allow for the capture of high quality CCTV footage to help manage the city more effectively. Increased pedestrian movement stimulated by the well-lit, ambient environment will also provide passive surveillance, reducing the likelihood of crime. Anti-social behaviour will be reduced and people will feel more comfortable. 1 in 30 people in the City Centre is homeless, but 95% of these people have a mobile phone. Expanded Wi-Fi and open data will enable the CoD to co-create new apps with partners (such as New York's StreetSmart) to empower the disadvantaged to improve quality of life. This will revolutionise and improve the social and community service delivery and this could be replicated across the municipality and the NT. CoD will transition 635 street and park lights to smart LEDs. With the inclusion of smart controls, CoD will reduce energy consumption by at least 40% compared to current lighting and to the lighting choices offered by Power & Water Corp. This equates to 215MWh/yr saved and an emissions reduction of 144t CO₂-e/yr. The smart controls could reduce energy consumption by up to 20% more,

depending on the dimming regime adopted. Energy cost savings are estimated at more than \$79k/yr with maintenance savings to exceed \$60k/yr compared to Power & Water Corp charges for 2017/18. The Project will pave the way for rollouts across CoD's 8700 street lights. It will reduce energy consumption and GHG emissions by 57%, increase energy cost savings of over \$730k per year and is expected to reduce maintenance costs by at least \$800k/yr compared to Power & Water Corp. Open data could unlock \$25bn of benefits for Australia. CoD will unlock these benefits with its Open Data Portal by developing new partnerships (incl. Paspalis and Charles Darwin University Innovation Hub), running hackathons and helping STEM industries to attract and retain smart employees. Smart Parking will make parking easier, reduce congestion and attract local residents and visitors into the City Centre. Smart parking trials in San Francisco noted a 43% reduction in 'hunting behaviour', 22% improvement in peak-hour congestion, less GHG emissions and reduction in fines (although an overall increase in parking revenue). This Project will stimulate new partnerships and create at least 126 jobs (71 local) during the roll out, equating to \$35.96m in output. Sustained economic benefit will be derived post implementation as the ecosystem increases vibrancy and businesses further leverage open data to understand consumer movement, differentiate products and promote growth

Merit criterion three (20 points)

The extent of the project's community focus and impact on the liveability of the cities, suburbs and towns *

In assessing this criterion, we will consider:

- *The degree that your project will advance community goals including through alignment with any relevant strategic plans at the local, regional or state level.*
- *The level of engagement with citizens to ensure the project addresses community needs and has the support of the community.*
- *Your strategy to measure the project's success, including any targets and metrics*

Through extensive consultation across the community, CoD has developed a vision and set of strategic community goals to achieve a better and more sustainable future. These are published in the Evolving Darwin Towards 2020 Strategic Plan. The 'Smarter Together' project is fully aligned with this vision and goals. It will use smart technology to accelerate sustainable benefits for community members including: businesses, residents and tourists. CoD's vision is to be a 'tropical, liveable city that creates opportunity and choice for our community'. The document also has quantifiable goals to measure the success and these will be used in the project.

The strategic goals are listed below with examples of outcomes that support each:

1. Collaborative, Inclusive and Connected Community – Community Apps supported by expanded Wi-Fi coverage will enable disadvantaged individuals and itinerants to be more connected to the community and relevant service providers. Reliable open data will assist businesses in meeting varying demand and provide opportunities to design desirable places, extend night markets, support pop-up shops and better cater for the growing cruise ship industry. Success will be measured by number of community groups supported (100), use of Apps and visits to the Council's website (300,000 p/a).
2. Vibrant, Flexible and Tropical Lifestyle – Dynamic coloured lighting and options to selectively broadcast music across Bicentennial Park and entertainment precincts will create new, vibrant, attractive locations and a sense of community. The increased ambiance across the City Centre will encourage locals and tourists to utilise the space, making it easier to stage shows, music events and provide a viable, steady source of income for local businesses. Success will be measured by the percentage of the community satisfied by quality of life (>85%)
3. Environmentally Sustainable City – Smart sensors and the open data platform will enable CoD's environmentally conscious community to explore sustainable initiatives that reduce the carbon footprint. Smart lighting will halve energy consumption and easier parking will reduce emissions. Success will be measured by a reduction in greenhouse gas emissions (tonnes CO₂-e) in the City Centre.
4. Historic and Culturally Rich City – Leveraging the supporting networks, innovative way-finding apps will be created, allowing residents and tourists to immerse themselves in Darwin's rich Indigenous and war history, helping rebrand the City Centre as a unique cultural destination. Success will be measured by the number of people who have attended events (>50%) and satisfaction rate with activities in the municipality (>70%)
5. Effective and Responsible Governance– Publication of real-time operational data on the open data platform will promote operational transparency and accountability. The community will be empowered to hold CoD to account for provision of services, increasing operational efficiency and value for money. Success will be measured by high satisfaction that Council consults with the community sufficiently (>70%).

The project will catalyse lasting partnerships that give rise to synergies that explore increased place-making activities. It has been informed by, aligns with and builds on the following strategies and plans that seek to make the City Centre a more vibrant, liveable environment:

- City Centre Master Plan
- The Community Wellbeing Plan for a Healthy Darwin 2014-2020
- Digital Strategy
- Draft Open Data Policy
- Safer Vibrant Darwin Plan 2016-2019
- Climate Change Action Plan 2011-2020

At a NTG level, the project aligns with:

- Darwin 'City Deal'
- Live Darwin: Arts Program
- Economic development Framework

At a Federal Government level:

- COAG Criteria for Capital Cities

- Darwin 'City Deal'

The project supports other connected industry initiatives such as:

- Paspalis/CDU Innovation Centre
- Darwin Inner City Packaged Liquor Accord

CoD will develop a measurement strategy aligned with international smart city measurement standard ISO 37151. This standard outlines 14 categories of community needs to measure the performance of smart community infrastructure which have been optimised with sustainable development and resilience in mind. In partnership with the NT Government, CoD will build on this framework with community groups to further evolve a tailored transparent metric framework using the project's dynamic Open Data Portal.

In addition to supporting existing success measures outlined above, additional metrics highlighted in CoD strategies (eg. incidents of crime, annual energy consumption) will be complemented by quality assurance documents including Risk, Quality and Asset Management Plans and milestones (see Project Management Plan for all documents). On project commencement, CoD will conduct quarterly performance reviews which will expand in scope to include economic, environmental and social metrics.

Merit criterion four (20 Points)

Your capacity, capability and resources to carry out the project *

To assess this criterion, we will consider:

- *The role of each project partner and how you will collaborate with them to improve your project outcomes*
- *Your track record managing similar projects*
- *Your access to personnel with the right skills and experience*
- *Your existing access to, or future access to, any infrastructure, capital equipment, technology, intellectual property, licences, radiofrequency spectrum etc.*
- *Your plan to manage and monitor the project, including planned governance and accountability arrangements*
- *The identification of key risks to the project's success and proposed treatments*
- *The level of continued support for, or capacity to, extend the project outcomes once the project is complete.*
- *The cash and in-kind contributions of all project partners. Additional investments such as cash contributions over 50 per cent or in-kind contributions will be highly regarded*

CoD has an excellent track record managing and implementing grant funded projects and extremely well placed to deliver the 'Smarter Together' project supporting the City's vision. The Council has endorsed the project and the Council has pledged support to make a \$2.5m cash contribution, with an additional \$465k in in-kind labour.

The leadership, internal resources and relationships are already in place to effectively manage the implementation phase and all associated risks. The project will have a dedicated management team consisting of the Chief Executive Officer (CEO), Project Sponsor (GM of City Futures), Project Manager (GM of City Operations) and supporting technical officers.

Firm commitments and formal letters of support (see supporting docs) have been received from the local community, industry associations and smart infrastructure suppliers. The NT Government will be a cornerstone partner, fully committed to revitalising the City Centre and attracting long-term investment into smart technology. They have agreed to match CoD's input with a \$2.5m cash contribution to the Project.

CoD has worked closely with the Capital City Committee and Vibrant CBD Sub-Committee (both committees include local traders and industry representations) in order to understand their vision and create new synergies. Importantly, engagement with the committees ensures the Smarter Together project will complement revitalisation activities and outcomes of the upcoming 'City Deal'.

CoD have engaged external consultants, Next Energy and KPMG to gain exposure to industry suppliers and understand how smart technology can address identified community needs and aspirations. Ongoing consultation and scenario analysis ensures CoD is well informed to select a final solution that provides a standardised interface for secondary infrastructure. This is a critical consideration, ensuring that CoD integrate new sensors and other smart technology as needed. CoD will undertake a two stage procurement process to engage specialised industry supplier/s to manage the design, manufacturing and project implementation.

CoD has appropriate ICT, Finance and Corporate systems to support this project. The general ledger structure will facilitate an independent account of all income and expenses related to the project and will assist in meeting reporting obligations to the Council, NT Government and external bodies. The project team will coordinate project actions and report to NT and Federal Governments with progress reports and finance updates.

The project will have continued support once complete. The project aligns with Evolving Darwin towards 2020 Strategic Plan and the City Centre Master Plan, attracting investment and transforming the City Centre into a vibrant, inclusive environment. CoD's partnership with NT Government will ensure there is sustained political and financial support and that it actively complements the desired outcomes from the 'City Deal'.

CoD has successfully delivered similar sized projects across infrastructure, environment and community services such as:

- Parap Pool Redevelopment (2016-current): The \$15.4m project was funded by the National Stronger Regions Fund (\$4.48m), CoD (\$4.48m) and further supported by NT Government (\$5m). The Parap Pool Redevelopment spans three years, during which efficient and accountable project management is required coordinate subcontractors and meet project milestones. It is scheduled for completion in

December 2017.

- Esplanade Redevelopment Project (2015/16): The redevelopment, valued at \$3.74m included road restoration, landscaping and improved lighting infrastructure. It was the first time energy efficient LED's were deployed in the City, providing increased amenity and better visibility for road users.

- Shoal Bay Waste Management Facility Upgrade (2015/16): CoD has managed the \$8.6m upgrade to Shoal Bay Waste Management Facility, with a further \$9.8m spent in 2016/17 on a new waste cell.

The key identified risks are (i) procuring ineffective products (ii) not addressing community privacy concerns and (iii) delays in project execution due to weather events (e.g. cyclones). These risks, and any other emerging risks, will be managed and mitigated in accordance with the Project Risk Management Plan, derived from CoD's Risk Management Framework, which complies with International Standard for Risk Management, ISO31000:2009.

The standardised interfaces and interoperable open standard platforms enables CoD to have sustained access to infrastructure, expertise and emerging technologies. The approach mitigates any risk of CoD being locked into one long-term supplier or infrastructure type, providing freedom to integrate new technologies as needed or desired.

CoD is very confident that Council, NT and Federal funds will deliver a project that provides sustained social, economic and environmental benefits and value for money for the community and Northern Australia.

Supporting documents

Supporting documents

Any supporting documentation you would like to attach to the application can be uploaded here. The following restrictions apply to attachments:

- Total file size of all attachments in the application should not exceed 20MB
- file size of each attachment cannot exceed 2MB
- only files with the following file type extensions can be uploaded (.pdf, .rtf, .doc, .docx, .xls, .xlsx)

For assistance with any technical issues experienced while completing this application form or attaching documents, please [Contact Us](#). Our website and staff can help you.

If you wish to include additional documents, these should be limited to those directly relevant to, and in support of, your application

File: Merit Criteria 2_Support (Part A).pdf

File: Merit Criteria 2_Support (Part B).pdf

File: Merit Criteria 3_Support (A).pdf

File: Merit Criteria 3_Support (B).pdf

File: Merit Criteria 3_Support (C).pdf

Contact details

Primary contact

Person authorised to act on behalf of the applicant. (Note: At least one phone number or mobile must be entered and all the remaining fields below are mandatory unless stated otherwise.)

Title

Given Name *

Family Name *

Position Title *

s47F

Please enter either a phone or mobile number *

Phone

Mobile

s47F

Email * s47F

Provide the postal address of the primary contact.

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the applicant the primary contact's employer? *

Yes

No

Feedback

How did the applicant hear about the program? *

- Advertisement
- Attend Public Forum
- Call Centre
- Direct Mail / Email
- Industry Group
- Internet
- Newspaper / Magazine
- Word of mouth
- Social Media
- Other

Applicant declaration

Privacy and confidentiality provisions

I acknowledge that this is an Australian Government program and that the department will use the information I provide in accordance with the following:

- [Australian Government Public Data Policy Statement](#),
- [Commonwealth Grants Rules and Guidelines](#),
- [Program Guidelines](#),
- applicable Australian laws.

Accordingly, I understand that the department may:

1. share information in this application with other government agencies:

- (a) for purposes directly related to the administration and governance of the Program;
- (b) for any purposes including government administration, research or service delivery; and

2. publish non-sensitive information in this application in the public domain, including on the department's website;

unless otherwise prohibited by law.

I confirm that I have read and understood the privacy, confidentiality and disclosure provisions outlined in the [Program Guidelines](#).

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

Applicant declaration

I declare that I have read and understood the [Program Guidelines](#).

I declare that the proposed project outlined in this application and any associated expenditure has been endorsed by the applicant's Board or person with authority to commit the applicant to this project.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, true, accurate and complete. I also understand that giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth).

I declare that the applicant will comply with, and require that its subcontractors and independent contractors comply with, all applicable laws.

I understand that I may be requested to provide further clarification or documentation to verify the information supplied in this form and that the Department of Industry, Innovation and Science (the Department) may, during the application process, consult with other government agencies, including State and Territory government agencies, about the applicant's claims and may also engage external technical or financial advisors to advise on information provided in the application.

I acknowledge that if the Department is satisfied that any statement made in an application is incorrect, incomplete, false or misleading the Department may, at its absolute discretion, take appropriate action. I note such action may include excluding an application from further consideration; withdrawing an offer of funding; using the information contained in the application for a fraud investigation that would be consistent with the Australian Government's Investigations Standard and Fraud Control Guidelines and for management purposes and/or terminating any Agreement between the Commonwealth and the recipient including recovering funds already paid.

I agree to participate in the periodic evaluation of the services undertaken by the Department.

I declare that I am authorised to complete this form and to sign and submit this declaration on behalf of the applicant.

I approve of the information in this application being communicated to the Department in electronic form.

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

By including my name in this application it is deemed to be my signature for the purpose of this application *

State your name *

State your email address * s47F



Australian Government
**Department of Industry,
Innovation and Science**

Business

business.gov.au
13 28 46
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Smart Cities and Suburbs Program Application Form

Tracking Code: **N45YMQ7**

Receipt

Your form has been successfully submitted. Please keep a copy of this acknowledgement for your records.



Date and Time: **28 Jun 2017 3:40:34 PM**

Receipt Number: **SCSP-49**

To save or print a copy of the completed form and acknowledgement go to the "File" menu and select "Save as" or "Print".

Instructions

About the Smart Cities and Suburbs Program

The \$50 million Smart Cities and Suburbs Program supports the Australian Government's commitment to help local governments and communities use smart technology and increase the accessibility and use of public data so that:

- cities, suburbs and towns become more liveable, productive and sustainable and
- urban service delivery becomes more efficient and effective.

In line with the [Smart Cities Plan](#), the program supports projects that apply smart technology, data-driven decision making and people-focused design to deliver economic, social and environmental benefits in metropolitan and regional urban centres.

Projects will deliver innovative solutions that transform the government sector, advance community goals and address the needs of residents. The program will help to establish smart city innovation eco-systems and move Australia towards a global leadership position in smart city solutions.

Collaborative projects involving partners across multiple sectors and urban centres will:

- grow smart cities capability and capacity through shared knowledge and expertise
- drive innovation and wide adoption of solutions
- advance standards and improve regulation
- realise greater outcomes through maximum leverage of program funding.

The program will run over three years from 2016-17 to 2018-19 and may involve multiple rounds. Separate program guidelines will be issued outlining the arrangements for any future rounds of the program and will be available on business.gov.au.

Completing this form

Please read the [Program Guidelines](#) before completing this application form. Projects must have in-principle support from a local government agency or body at the time of application.

Disclosure of information

The Commonwealth's use and disclosure of your information (provided in this application or otherwise) is set out in the Smart Cities and Suburbs [Program Guidelines](#).

Google Places

The address search fields in this form use Google Places to help fill in the address details. By using this feature you agree to be bound by [Google's Terms of Service](#) and are subject to [Google's Privacy Policy](#).

Getting help

If you require assistance completing this application form please contact us on 13 28 46 or at business.gov.au. Our website and staff can help you with forms, finding business information and services and allow you to provide feedback, comments or suggestions.

You should also read and understand the [Program Guidelines](#) and general grant agreement before completing an application. View these documents at business.gov.au.

Requirements

This form functions best when it is completed using the most recent version of your internet browser. This form is not compatible with Internet Explorer 8 or earlier browsers. If you are using an earlier browser version, you may have difficulty in displaying the form correctly or it may not display at all.

Important information

Save Regularly. Click the 'Save for Later' button regularly while completing this form to ensure the information entered is saved. Saved forms will be retained for a maximum of 60 days. If you do not save or submit your form within this timeframe, you will need to start a

new form.

Do not use your internet browser's 'back' or 'refresh' buttons as this will cause the form to close and any unsaved information will be lost. Navigate between sections of the form by using the tabs at the top of the form or by clicking 'Continue' or 'Go Back' at the bottom of each page.

Sharing the form

The form can be viewed by more than one person by sharing the form's unique tracking code. However, sharing the form increases the risk of losing unsaved information. The reason for this is that only one person at any one time, has saving permissions for the application form. If the form is shared, save regularly as the last person that accesses the form has the saving permission. It is recommended that the form tracking code is not shared widely so as to avoid inadvertent loss of information.

Attachments

All attachments marked as required must be attached before your application can be submitted. Files with ".pdf, .rtf, .doc, .docx, .xls, .xlsx" extension types can be uploaded. Total file size of all attachments in the application should not exceed 20MB. Please note that there is a size limit of 2MB per attachment.

Submitting your form

Applications may be submitted at any time up until 5.00pm AEST on 30 June 2017.

You will be provided with a receipt to confirm that your submission has been successful. Please keep this receipt for your records by using the "Download the form and receipt" link or by emailing yourself a copy of the receipt and submission. Both of these options are available in the "To keep a copy of the completed form" box on the Submission Complete page.

If you have any enquiries relating to submission of your form, you will need to provide your receipt number.

Eligibility

Eligibility

This section will help you determine whether you are eligible to apply for the program.

Does your organisation have an ABN? *

For trustees applying on behalf of a trust, this refers to the ABN of the trust.

Yes

No

Is your organisation registered for GST? *

Yes

No

Select your type of organisation from the list below. *

Only the entity types listed below are eligible to apply for the program. Please refer to the [Program Guidelines](#).

a local government agency or body as defined in Appendix A of the program guidelines.

This includes the ACT Government

an entity incorporated in Australia

an incorporated trustee on behalf of a trust

a not for profit organisation

a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Will your project involve at least one private sector organisation during the life of the project? *

If you already have private sector project partners in place, later in this application you will need to attach a letter of support from the Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

We recognise that local governments, not for profit organisations and PFROs may not be able to nominate a private sector partner at the time of application. However in this application you must identify the goods and services that you will procure for your project.

Yes

No

Can you provide evidence that your project has in-principle support from a local government agency or body? *

Later in this application you must provide evidence of in-principle support by:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Yes

No

Are you able to start your project within two months of signing a grant agreement with the department? This can include procurement planning. *

We anticipate that grant agreements will be in place by 20 October 2017.

Yes

No

Does your project have at least \$200,000 in eligible expenditure? *

The minimum grant amount is \$100,000 (with a minimum project value of \$200,000). The maximum grant amount is \$5 million however the maximum project value can exceed \$10 million. Please refer to Appendix B of the [Program Guidelines](#) for more information on eligible expenditure.

Yes

No

Can you provide evidence that you can fund your minimum 50 per cent share of eligible project costs from funding sources other than the Commonwealth? *

Yes

No

Later in this application you must provide a letter from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each partner organisation outlining their contribution, and confirming they can fund their share of project costs.

Applicant information

Project partners

You are required to provide details of the project partner organisations.

Do you have project partners in place for your project? *

You must start your project within two months of executing a grant agreement, which can include planning for procurement.

Yes

No

The lead applicant must complete this form and if the application is successful will enter into a grant agreement with the Commonwealth.

Please list all the project partner organisations for this application, starting with the lead applicant. If the lead applicant is a trustee of a Trust, enter the Trust's ABN.

Please enter the ABN of all Australian partners in the application and click the Validate button to retrieve your registration details.

Lead Applicant

Australian Business Number (ABN) *

83 780 118 628

Australian Company Number (ACN)

Entity name

CITY OF PERTH

Letter of in-principle commitment from your organisation including ability to co-contribute funding *

You must attach a letter from your Mayor, Chief Executive Officer or Chief Financial Officer with in-principle commitment to the project and in-principle allocation of the funding your organisation will contribute to the project.

File: CEO Signed letter Smart Cities Funding.pdf

Project partner 1

Australian Business Number (ABN) *

65 003 371 239

Australian Company Number (ACN)

003 371 239

Entity name

DIMENSION DATA AUSTRALIA PTY LIMITED

Select the type of entity for the project partner: *

a local government agency or body

An entity incorporated in Australia

an incorporated trustee on behalf of a trust

- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: DD CoP Smart Cities Exec Letter 20-06-2017.pdf

Project partner 2

Australian Business Number (ABN) *

29 002 589 460

Australian Company Number (ACN)

002 589 460

Entity name

MICROSOFT PTY LTD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Letter of support City of Perth.pdf

Project partner 3

Australian Business Number (ABN) *

58 149 449 972

Australian Company Number (ACN)

149 449 972

Entity name

SPACECUBED INNOVATION LTD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer

- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Letter of Support Spacecubed.pdf

Project partner 4

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

CISCO SYSTEMS AUSTRALIA PTY LIMITED

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

- *the roles and responsibilities of the organisation, and the resources it will contribute (if any)*
- *details of a nominated management level contact officer.*

Letter of support from project partner organisations *

File: Letter of Support - City of Perth - Collaboration Market Place.pdf

Project partner 5

Australian Business Number (ABN) *

62 161 827 578

Australian Company Number (ACN)

161 827 578

Entity name

ATOMIC SKY PTY LTD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or
- an approved Council minute from a formal meeting of Council

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Letter of Support Tech hub atomic sky.pdf

Project partner 6

Australian Business Number (ABN) *

77 284 859 739

Australian Company Number (ACN)

Entity name

TOWN OF VICTORIA PARK

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher

- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: 170623 - Smart Cities letter of Support from the CEO of the Town of Victoria Park.pdf

Project partner 7

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: STAR Consulting signed Letter of Support.pdf

Project partner 8

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust

- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Asterisk Letter of support - signed.pdf

Project partner 9

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

DOWNER EDI ENGINEERING POWER PTY LTD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: NGT Downer_Letter of Support.pdf

Project partner 10

Australian Business Number (ABN) *

38 136 050 701

Australian Company Number (ACN)

136 050 701

Entity name

Velrada Capital Pty Ltd

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

- an outline of the relevant experience and/or expertise the organisation will bring to the group

Letter of support from project partner organisations *

File: Velrada - Letter of Support.pdf

Project partner 11

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Each letter of support should include:

- details of the project partner organisation
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project
- details of any cash contributions to the project

Letter of support from project partner organisations *

File: Bang the Table Support Letter.pdf

Project partner 12

Australian Business Number (ABN) *

60 741 095 678

Australian Company Number (ACN)

Entity name

SHIRE OF KALAMUNDA

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle

support from a local government agency or body. You can demonstrate this by attaching:

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Letter - CEO Support for Smart Cities - 27 June 2017.pdf

Project partner 13

Australian Business Number (ABN) *

65 533 218 403

Australian Company Number (ACN)

Entity name

CITY OF SOUTH PERTH

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle
You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Letter of support from project partner organisations *

File: scanned signed letter City of Perth Smart cities funding.pdf

Project partner 14

Australian Business Number (ABN) *

96 672 798 638

Australian Company Number (ACN)

Entity name

The trustee for Adaptive Trust

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle
You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial

Letter of support from project partner organisations *

File: Letter of Support Studio Start up.pdf

Project partner 15

Australian Business Number (ABN) *

16 008 852 775

Australian Company Number (ACN)

008 852 775

Entity name

ESRI-AUSTRALIA PTY LTD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$0

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle
You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial
Letter of support from project partner organisations *

File: 27062017174956-0001.pdf

Type of applicant

In this section you must indicate what type of entity you operate under.

All entities must have an ABN.

All entities must be non-tax exempt incorporated organisations.

Select which type of entity your organisation is: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Applicant details

These details have been populated from the lead applicant information entered above.

Australian Business Number (ABN) *

83 780 118 628

Australian Company Number (ACN)

The entity name refers to the name that appears on all official documents or legal papers. The entity name may be different from the business name.

Entity name

CITY OF PERTH

Your business may have registered one or more business names. If you operate under a business or trading name you can enter alternate name(s) here. If your business or trading name is not listed here select 'other'.

Business/trading name

GST registered

ANZSIC details

What is the applicant's main business activity under the Australian and New Zealand Standard Industrial Classification (ANZSIC)?

The Australian and New Zealand Standard Industrial Classification (ANZSIC) is a classification system used by government to group data about organisations based on their primary business activity.

The ANZSIC codes and titles are available from the [Australian Bureau of Statistics \(ABS\) website](#). Phone 13 28 46 if you require assistance.

ANZSIC division *

O Public Administration and Safety

ANZSIC class

7530

Address details

Provide your Organisation Street Address (Australian Head Office)

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

27 Saint Georges Terrace

Address line 2

Address line 3

Suburb *

Perth

State *

WA

Postcode *

6000

Is the Postal Address the same as the Organisation Street Address entered above? *

Yes

No

Provide your Organisation Postal Address

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

GPO Box C120

Address line 2

Address line 3

Suburb *

Perth

State *

WA

Postcode *

6839

Website address

Provide your organisation's website address

<https://www.perth.wa.gov.au>

Project site address

Will the project's activities occur solely at the above listed head office address? *

A project site address must be a street address, not a postal address.

Yes

No

Latest financial year figures

Has the applicant existed for a complete financial year? *

Yes

No

Select the latest complete financial year. *

2015/16

Latest financial year figures

We collect the following data from all applicants across all grant programs. We use this data to better understand your organisation and to help us develop better policies and programs.

All amounts in the table below must show a whole dollar value e.g. \$1 million should be presented as \$1,000,000. The turnover value must be that of the entity that is making the grant application (the 'applicant'), regardless of whether the entity belongs to a consolidated group for tax purposes.

These fields are mandatory and entering \$0 is acceptable if applicable. If they clearly do not apply to your organisation you may select not applicable.

FY 2015/16

Sales revenue (turnover) * Not applicable

Total revenue from the sale of goods and services, as reported in the applicant's Business Activity Statement (BAS).

Export revenue * Not applicable

Total revenue from export sales, as reported in the applicant's Business Activity Statement (BAS).

R&D expenditure * Not applicable

Expenditure on Research and Development, i.e. creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

Taxable income * Not applicable

Taxable income or loss as per the Applicant's Business Income Company Tax Return Form.

Employees, including working proprietors and salaried directors (headcount) * Not applicable

Number of individuals who are entitled to paid leave (sick and holiday), or generate income from managing the business.

Independent contractors (headcount) * Not applicable

Number of individuals engaged by the business under a commercial contract (rather than an employment contract) to provide employee-like services on site.

Ultimate holding company

Does the applicant have an Ultimate Holding Company? *

Yes

No

Project details and funding

Project title and description

If your application is successful, the details you provide below will be published on the departmental website. Published project details will include:

- name of the applicant
- title of the project
- a description of the project and its intended outcomes
- amount of funding awarded.

Provide a project title. *

If the application is successful, this project title may be used by the Australian Government in published material.

Example project title: Eastern Suburbs Council Smart Waste Collection Project.

City of Perth's Smart Cities Collaboration Market Place

Provide a brief project description for publication on our website. *

Ensure your project description focuses on your project's key activities and outcomes. Explain what it is you are going to do and how it will help local governments and communities use smart technology and increase the accessibility and use of public data.

Example Project Description:

Transition Pty Ltd's smart infrastructure project to integrate sensors, vision systems, and wireless and network controls to share mass communication about traffic and weather conditions.

Transition Pty Ltd's smart precincts project to improve building comfort, through mitigation of urban heat and other weather extremes using intelligent systems.

The City of Perth's Smart Cities Collaboration Market Place is a Smart Cities innovation that will create an environment and platform that will enable the City of Perth and partnering organisations to connect, exchange, collaborate, evolve, and scale technologies that will, through participation, amplify the benefit of the community and citizens both from the exchange in open data, efficiencies and optimization of resources (human, infrastructure and technology based) and by stimulating the local innovation ecosystem of vendors and start ups within the Metropolitan area to create jobs, projects and smart city project opportunities.

Project priority area

Which priority area does your project align with?

You can select more than one. More detail on the priority areas can be found in Table 1 of the program guidelines.

- Smart Infrastructure
Improving the efficiency, reliability, delivery and maintenance of infrastructure and essential services
- Smart Precincts
Making community precincts more liveable, productive, sustainable and safe
- Smart Services and Communities
Delivering community focussed local government services
- Smart Planning and Design
Building adaptable and resilient cities through improved land use, strategic planning and governance

Summary of activities and outcomes

Provide a summary of your project, including the key activities and project outcomes. Detail the challenge your project will address using a smart technology solution. List any products or services you will procure as part of the project.

The project consists of 4 integrated projects that include several integral components

- Design and development of the Smart Cities Communication and Data Hub
- The development of a Smart City Precinct
- The establishment a Smart irrigation watering pilot
- Create a reporting and information sharing platform

These projects will deliver a blueprint for other Local Governments to create a technology based foundation that delivers cost savings through expanded participation, the use of proven technologies supported by documented processes, and a collaborative approach to ensure all participants benefit.

The primary focus of these initiatives is to deliver enhanced benefits to Citizens that live, work and visit the City of Perth.

Smart Technologies to be procured include

Data platforms
Advanced CCTV analytics
Advanced IoT sensors
Visualisation Platform
Predictive Analytics platform
Smart irrigation components
Cloud Computing
Emerging Wireless Communications
Advanced Reporting Tools

Project milestones and key activities

The start date of milestone 1 is the expected project start date. The end date of your last milestone activity will be the project end date.

Include timeframes for any procurement activities, including finalisation of any tenders, and when you expect to have engaged project partners.

We make an initial payment on execution of the grant agreement covering up to 6 months of eligible expenditure. We will make subsequent payments in arrears based on your achievement of activities and your eligible expenditure.

Milestone 1

Milestone title *

Smart City Data Hub - Design, Procurement and Planning

Milestone description *

Architecture Procurement and Planning prior to execution of the Smart City Data Hub

Milestone start date *

01 Oct 2017

Milestone end date *

01 Apr 2018

Milestone 2

Milestone title *

Smart City Data Hub - Azure Setup

Milestone description *

Design and Build of Azure Cloud infrastructure to support the Data Hub

Milestone start date *

Milestone end date *

14 Apr 2018

15 Jun 2018

Milestone 3

Milestone title *

Smart City Data Hub - Sustainability Dashboard

Milestone description *

integration of Perth City Sustainability Dashboard, adding data to and using data from the Data Hub repository

Milestone start date *

Milestone end date *

15 Jun 2018

15 Aug 2018

Milestone 4

Milestone title *

Smart City Data Hub - Smart Irrigation Integration

Milestone description *

Services to support irrigation sensors and citizen science open sensors developed and deployed into the Data Hub making data available

Milestone start date *

Milestone end date *

15 Aug 2018

15 Oct 2018

Milestone 5

Milestone title *

Smart City Data Hub - Smart Precinct Integration

Milestone description *

Data feeds from precinct sensors and CCTV analytics processing are loaded into the Data Hub and made available for dashboards and reporting

Milestone start date *

Milestone end date *

15 Oct 2018

15 Dec 2018

Milestone 6

Milestone title *

Smart City Data Hub - City Operations Dashboard

Milestone description *

Development of the City Operations Dashboard, contributing data to and loading data from the Data Hub

Milestone start date *

15 Dec 2018

Milestone end date *

15 Feb 2019

Milestone 7

Milestone title *

Smart City Data Hub - Delivery and Closeout

Milestone description *

Final packaging and documentation, financial verification and governance reviews.

Milestone start date *

15 Feb 2019

Milestone end date *

15 Mar 2019

Project duration

Project Start Date

01 Oct 2017

Project End Date

15 Mar 2019

Project budget

Provide details on your total eligible project costs over the life of the project. This includes the requested grant funding and all co-contributions.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

We only provide grant funding based on eligible expenditure. Refer to the [Program Guidelines](#) for guidance on eligible expenditure.

Cost item	FY 2017-18	FY 2018-19	Total
Labour costs	\$230,581	\$90,863	\$321,444
Contractor costs	\$924,850	\$257,750	\$1,182,600

Intellectual property and technology acquisition	\$685,945	\$200,000	\$885,945
Other costs	\$184,138	\$54,861	\$238,999
Total project costs	\$2,025,514	\$603,474	\$2,628,988

Project Budget *

For projects over \$1 million you must attach a detailed project budget.

File: City of Perth - Smart Cities Program Costing - Final.xlsx

Project Plan *

For projects over \$1 million you must attach a detailed project plan.

File: City of Perth - Smart Cities Program Timeline - Final.xlsx

Source of funding

Complete the table below to show how the applicant will fund the eligible project costs.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

a. Applicant's contribution (\$A) *

b. Total project partner contribution (\$A)

c. Program grant amount (\$A) *

d. Other non-Commonwealth Government funding (\$A)

e. Total eligible project costs (\$A)

f. Grant percentage

Total government grant percentage (%)

The project cannot be funded by this grant in conjunction with any other Commonwealth grant. The total Commonwealth funding cannot exceed 50%.

Supportive documents

Provide the names of documents that you can provide to support your estimated project costs

Project costings based on past City of Perth BI Developments, CCTV deployments and Quotes/Tender Responses for Smart Irrigation and Sustainability Dashboards. Documents are available on request.

Examples of supporting documents are equipment supplier quotes, contractor quotes, invoices etc. You do not need to submit these with this application form. However, if your application is successful you will be required to submit these documents before the grant agreement is finalised.

You can find more details in the [Program Guidelines](#).

Merit criteria

To be competitive you will need to score highly against each merit criterion. Your application will be assessed against the indicators listed beneath each merit criterion. The merit criteria are weighted as indicated by the points. The amount of detail and supporting evidence you provide should be commensurate with the project size, complexity and grant amount requested.

You may attach any other documents that support your application and/or claims made in relation to the merit criteria.

Merit criterion one (30 points)

The extent to which your project is innovative and uses smart technology and open data *

In assessing this criterion, we will consider:

- *The extent to which your project is innovative (see section 5.3 of the program guidelines).*
- *The extent that your project will promote open and accessible data*
- *The extent to which your project uses Smart Technology*
- *The degree that your project supports interoperability of systems and uses available standards, particularly open standards. Examples of existing open standards include data models based on CitySDK, data platforms based on CKAN, APIs based on the FIWARE NGSI API framework, and information discovery standards like Hypercat.*

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Merit criterion two (30 points)

The scope of social, environmental and economic benefits your project will deliver *

In assessing this criterion, we will consider:

- *The level of social, environmental and economic project benefits to be gained. This may include improving:*
 - *the efficiency and effectiveness of and access to local government services and facilities*
 - *the health and quality of the natural environment, including increased efficiency in the use of natural resources*
 - *the financial sustainability of your community, including generating an ongoing revenue stream, cost savings, or leveraging investment from third-parties.*
 - *the urban environment, including safety, design landscape and green infrastructure*
 - *business and industry development including job creation and skills development*
 - *social equity and community cohesion*
- *The degree to which your project will transform the government sector:*
 - *by serving as a demonstration of best practice for others and the potential to scale up, roll out or replicate your solution in other communities; and/or*
 - *by supporting improved regulation.*

s47G

Merit criterion three (20 points)

The extent of the project's community focus and impact on the liveability of the cities, suburbs and towns *

In assessing this criterion, we will consider:

- *The degree that your project will advance community goals including through alignment with any relevant strategic plans at the local, regional or state level.*
- *The level of engagement with citizens to ensure the project addresses community needs and has the support of the community.*
- *Your strategy to measure the project's success, including any targets and metrics*

s47G

Merit criterion four (20 Points)

Your capacity, capability and resources to carry out the project *

To assess this criterion, we will consider:

- *The role of each project partner and how you will collaborate with them to improve your project outcomes*
- *Your track record managing similar projects*
- *Your access to personnel with the right skills and experience*
- *Your existing access to, or future access to, any infrastructure, capital equipment, technology, intellectual property, licences, radiofrequency spectrum etc.*
- *Your plan to manage and monitor the project, including planned governance and accountability arrangements*
- *The identification of key risks to the project's success and proposed treatments*
- *The level of continued support for, or capacity to, extend the project outcomes once the project is complete.*
- *The cash and in-kind contributions of all project partners. Additional investments such as cash contributions over 50 per cent or in-kind contributions will be highly regarded*

s47G



Supporting documents

Supporting documents

Any supporting documentation you would like to attach to the application can be uploaded here. The following restrictions apply to attachments:

- Total file size of all attachments in the application should not exceed 20MB
- file size of each attachment cannot exceed 2MB
- only files with the following file type extensions can be uploaded (.pdf, .rtf, .doc, .docx, .xls, .xlsx)

For assistance with any technical issues experienced while completing this application form or attaching documents, please [Contact Us](#). Our website and staff can help you.

If you wish to include additional documents, these should be limited to those directly relevant to, and in support of, your application

File: City of Perth - 2016 Financial Statements.pdf

File: City of Perth Smart Cities Submission Document - Final.pdf

File: CEO Signed letter Smart Cities Funding.pdf

File: IBM Smarter Cities Challenge 2014 Exec summary and progress update.pdf

Contact details

Primary contact

Person authorised to act on behalf of the applicant. (Note: At least one phone number or mobile must be entered and all the remaining fields below are mandatory unless stated otherwise.)

Title

Given Name *

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Family Name *

s47F

Position Title *

Please enter either a phone or mobile number *

Phone

Mobile

s47F

Email *

Provide the postal address of the primary contact.

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the applicant the primary contact's employer? *

Yes

No

Feedback

How did the applicant hear about the program? *

- Advertisement
- Attend Public Forum
- Call Centre
- Direct Mail / Email
- Industry Group
- Internet
- Newspaper / Magazine
- Word of mouth
- Social Media
- Other

Please provide details *

Australian Smart Communities Association

Applicant declaration

Privacy and confidentiality provisions

I acknowledge that this is an Australian Government program and that the department will use the information I provide in accordance with the following:

- [Australian Government Public Data Policy Statement](#),
- [Commonwealth Grants Rules and Guidelines](#),
- [Program Guidelines](#),
- applicable Australian laws.

Accordingly, I understand that the department may:

1. share information in this application with other government agencies:

- (a) for purposes directly related to the administration and governance of the Program;
- (b) for any purposes including government administration, research or service delivery; and

2. publish non-sensitive information in this application in the public domain, including on the department's website;

unless otherwise prohibited by law.

I confirm that I have read and understood the privacy, confidentiality and disclosure provisions outlined in the [Program Guidelines](#).

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

Applicant declaration

I declare that I have read and understood the [Program Guidelines](#).

I declare that the proposed project outlined in this application and any associated expenditure has been endorsed by the applicant's Board or person with authority to commit the applicant to this project.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, true, accurate and complete. I also understand that giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth).

I declare that the applicant will comply with, and require that its subcontractors and independent contractors comply with, all applicable laws.

I understand that I may be requested to provide further clarification or documentation to verify the information supplied in this form and that the Department of Industry, Innovation and Science (the Department) may, during the application process, consult with other government agencies, including State and Territory government agencies, about the applicant's claims and may also engage external technical or financial advisors to advise on information provided in the application.

I acknowledge that if the Department is satisfied that any statement made in an application is incorrect, incomplete, false or misleading the Department may, at its absolute discretion, take appropriate action. I note such action may include excluding an application from further consideration; withdrawing an offer of funding; using the information contained in the application for a fraud investigation that would be consistent with the Australian Government's Investigations Standard and Fraud Control Guidelines and for management purposes and/or terminating any Agreement between the Commonwealth and the recipient including recovering funds already paid.

I agree to participate in the periodic evaluation of the services undertaken by the Department.

I declare that I am authorised to complete this form and to sign and submit this declaration on behalf of the applicant.

I approve of the information in this application being communicated to the Department in electronic form.

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

By including my name in this application it is deemed to be my signature for the purpose of this application *

State your name *

State your email address *

s47F



Australian Government
**Department of Industry,
Innovation and Science**

Business

business.gov.au
13 28 46
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Smart Cities and Suburbs Program Application Form

Tracking Code: **KJ39LDW**

Receipt

Your form has been successfully submitted. Please keep a copy of this acknowledgement for your records.



Date and Time: **30 Jun 2017 3:30:27 PM**

Receipt Number: **SCSP-197**

To save or print a copy of the completed form and acknowledgement go to the "File" menu and select "Save as" or "Print".

Instructions

About the Smart Cities and Suburbs Program

The \$50 million Smart Cities and Suburbs Program supports the Australian Government's commitment to help local governments and communities use smart technology and increase the accessibility and use of public data so that:

- cities, suburbs and towns become more liveable, productive and sustainable and
- urban service delivery becomes more efficient and effective.

In line with the [Smart Cities Plan](#), the program supports projects that apply smart technology, data-driven decision making and people-focused design to deliver economic, social and environmental benefits in metropolitan and regional urban centres.

Projects will deliver innovative solutions that transform the government sector, advance community goals and address the needs of residents. The program will help to establish smart city innovation eco-systems and move Australia towards a global leadership position in smart city solutions.

Collaborative projects involving partners across multiple sectors and urban centres will:

- grow smart cities capability and capacity through shared knowledge and expertise
- drive innovation and wide adoption of solutions
- advance standards and improve regulation
- realise greater outcomes through maximum leverage of program funding.

The program will run over three years from 2016-17 to 2018-19 and may involve multiple rounds. Separate program guidelines will be issued outlining the arrangements for any future rounds of the program and will be available on business.gov.au.

Completing this form

Please read the [Program Guidelines](#) before completing this application form. Projects must have in-principle support from a local government agency or body at the time of application.

Disclosure of information

The Commonwealth's use and disclosure of your information (provided in this application or otherwise) is set out in the Smart Cities and Suburbs [Program Guidelines](#).

Google Places

The address search fields in this form use Google Places to help fill in the address details. By using this feature you agree to be bound by [Google's Terms of Service](#) and are subject to [Google's Privacy Policy](#).

Getting help

If you require assistance completing this application form please contact us on 13 28 46 or at business.gov.au. Our website and staff can help you with forms, finding business information and services and allow you to provide feedback, comments or suggestions.

You should also read and understand the [Program Guidelines](#) and general grant agreement before completing an application. View these documents at business.gov.au.

Requirements

This form functions best when it is completed using the most recent version of your internet browser. This form is not compatible with Internet Explorer 8 or earlier browsers. If you are using an earlier browser version, you may have difficulty in displaying the form correctly or it may not display at all.

Important information

Save Regularly. Click the 'Save for Later' button regularly while completing this form to ensure the information entered is saved. Saved forms will be retained for a maximum of 60 days. If you do not save or submit your form within this timeframe, you will need to start a

new form.

Do not use your internet browser's 'back' or 'refresh' buttons as this will cause the form to close and any unsaved information will be lost. Navigate between sections of the form by using the tabs at the top of the form or by clicking 'Continue' or 'Go Back' at the bottom of each page.

Sharing the form

The form can be viewed by more than one person by sharing the form's unique tracking code. However, sharing the form increases the risk of losing unsaved information. The reason for this is that only one person at any one time, has saving permissions for the application form. If the form is shared, save regularly as the last person that accesses the form has the saving permission. It is recommended that the form tracking code is not shared widely so as to avoid inadvertent loss of information.

Attachments

All attachments marked as required must be attached before your application can be submitted. Files with ".pdf, .rtf, .doc, .docx, .xls, .xlsx" extension types can be uploaded. Total file size of all attachments in the application should not exceed 20MB. Please note that there is a size limit of 2MB per attachment.

Submitting your form

Applications may be submitted at any time up until 5.00pm AEST on 30 June 2017.

You will be provided with a receipt to confirm that your submission has been successful. Please keep this receipt for your records by using the "Download the form and receipt" link or by emailing yourself a copy of the receipt and submission. Both of these options are available in the "To keep a copy of the completed form" box on the Submission Complete page.

If you have any enquiries relating to submission of your form, you will need to provide your receipt number.

Eligibility

Eligibility

This section will help you determine whether you are eligible to apply for the program.

Does your organisation have an ABN? *

For trustees applying on behalf of a trust, this refers to the ABN of the trust.

Yes

No

Is your organisation registered for GST? *

Yes

No

Select your type of organisation from the list below. *

Only the entity types listed below are eligible to apply for the program. Please refer to the [Program Guidelines](#).

a local government agency or body as defined in Appendix A of the program guidelines.

This includes the ACT Government

an entity incorporated in Australia

an incorporated trustee on behalf of a trust

a not for profit organisation

a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Will your project involve at least one private sector organisation during the life of the project? *

If you already have private sector project partners in place, later in this application you will need to attach a letter of support from the Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

We recognise that local governments, not for profit organisations and PFROs may not be able to nominate a private sector partner at the time of application. However in this application you must identify the goods and services that you will procure for your project.

Yes

No

Can you provide evidence that your project has in-principle support from a local government agency or body? *

Later in this application you must provide evidence of in-principle support by:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Yes

No

Are you able to start your project within two months of signing a grant agreement with the department? This can include procurement planning. *

We anticipate that grant agreements will be in place by 20 October 2017.

Yes

No

Does your project have at least \$200,000 in eligible expenditure? *

The minimum grant amount is \$100,000 (with a minimum project value of \$200,000). The maximum grant amount is \$5 million however the maximum project value can exceed \$10 million. Please refer to Appendix B of the [Program Guidelines](#) for more information on eligible expenditure.

Yes

No

Can you provide evidence that you can fund your minimum 50 per cent share of eligible project costs from funding sources other than the Commonwealth? *

Yes

No

Later in this application you must provide a letter from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each partner organisation outlining their contribution, and confirming they can fund their share of project costs.

Applicant information

Project partners

You are required to provide details of the project partner organisations.

Do you have project partners in place for your project? *

You must start your project within two months of executing a grant agreement, which can include planning for procurement.

Yes

No

The lead applicant must complete this form and if the application is successful will enter into a grant agreement with the Commonwealth.

Please list all the project partner organisations for this application, starting with the lead applicant. If the lead applicant is a trustee of a Trust, enter the Trust's ABN.

Please enter the ABN of all Australian partners in the application and click the Validate button to retrieve your registration details.

Lead Applicant

Australian Business Number (ABN) *

58 758 236 361

Australian Company Number (ACN)

Entity name

CITY OF PROSPECT

Letter of in-principle commitment from your organisation including ability to co-contribute funding *

You must attach a letter from your Mayor, Chief Executive Officer or Chief Financial Officer with in-principle commitment to the project and in-principle allocation of the funding your organisation will contribute to the project.

File: Signed Letter to Jason Van Ballegooyen - Cities Division - Department of the Prime Minister and .PDF

Project partner 1

Australian Business Number (ABN) *

66 452 640 504

Australian Company Number (ACN)

Entity name

CITY OF BURNSIDE

Select the type of entity for the project partner: *

a local government agency or body

An entity incorporated in Australia

an incorporated trustee on behalf of a trust

- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$35,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation*
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project*
- details of any cash contributions to the project*
- an outline of the relevant experience and/or expertise the organisation will bring to the group*
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)*

Letter of support from project partner organisations *

File: Burnside Letter of Support.pdf

File: Burnside background paper_Smart Cities + Suburbs Program_June 2017.docx

Project partner 2

Australian Business Number (ABN) *

68 399 090 894

Australian Company Number (ACN)

Entity name

CITY OF PORT ADELAIDE ENFIELD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$35,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project
- details of any cash contributions to the project
- an outline of the relevant experience and/or expertise the organisation will bring to the group
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)

Letter of support from project partner organisations *

File: Port Adelaide Letter of Support signed by CEO.pdf

Project partner 3

Australian Business Number (ABN) *

99 397 793 662

Australian Company Number (ACN)

Entity name

CITY OF PLAYFORD

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser

- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation*
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project*
- details of any cash contributions to the project*
- an outline of the relevant experience and/or expertise the organisation will bring to the group*
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)*

Letter of support from project partner organisations *

File: Playford Connect Places - Letter of Support.pdf

Project partner 4

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

CAMPBELLTOWN CITY COUNCIL

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$5,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation*
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project*
- details of any cash contributions to the project*
- an outline of the relevant experience and/or expertise the organisation will bring to the group*
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)*

- details of a nominated management level contact officer.

Letter of support from project partner organisations *

File: Letter of support Campbelltown.pdf

Type of applicant

In this section you must indicate what type of entity you operate under.

All entities must have an ABN.

All entities must be non-tax exempt incorporated organisations.

Select which type of entity your organisation is: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Applicant details

These details have been populated from the lead applicant information entered above.

Australian Business Number (ABN) *

58 758 236 361

Australian Company Number (ACN)

The entity name refers to the name that appears on all official documents or legal papers. The entity name may be different from the business name.

Entity name

CITY OF PROSPECT

Your business may have registered one or more business names. If you operate under a business or trading name you can enter alternate name(s) here. If your business or trading name is not listed here select 'other'.

Business/trading name

GST registered

ANZSIC details

What is the applicant's main business activity under the Australian and New Zealand Standard Industrial Classification (ANZSIC)?

The Australian and New Zealand Standard Industrial Classification (ANZSIC) is a classification system used by government to group data about organisations based on their primary business activity.

The ANZSIC codes and titles are available from the [Australian Bureau of Statistics \(ABS\) website](#). Phone 13 28 46 if you require assistance.

ANZSIC division *

ANZSIC class

Address details

Provide your Organisation Street Address (Australian Head Office)

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the Postal Address the same as the Organisation Street Address entered above? *

Yes

No

Provide your Organisation Postal Address

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

Prospect

State *

SA

Postcode *

5082

Website address

Provide your organisation's website address

http://www.prospect.sa.gov.au

Project site address

Will the project's activities occur solely at the above listed head office address? *

A project site address must be a street address, not a postal address.

Yes

No

Site Address 1

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Memorial Gardens

Address line 2

Menzies Crescent

Address line 3

Suburb *

Prospect

State *

SA

Postcode *

5082

Site Address 2

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

St Helens Park

Address line 2

39 Prospect Rd

Address line 3

Suburb *

Prospect

State *

SA

Postcode *

5082

Site Address 3

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Site Address 4

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Site Address 5

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Site Address 6

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Latest financial year figures

Has the applicant existed for a complete financial year? *

Yes

No

Select the latest complete financial year. *

Latest financial year figures

We collect the following data from all applicants across all grant programs. We use this data to better understand your organisation and to help us develop better policies and programs.

All amounts in the table below must show a whole dollar value e.g. \$1 million should be presented as \$1,000,000. The turnover value must be that of the entity that is making the grant application (the 'applicant'), regardless of whether the entity belongs to a consolidated group for tax purposes.

These fields are mandatory and entering \$0 is acceptable if applicable. If they clearly do not apply to your organisation you may select not applicable.

FY 2015/16

Sales revenue (turnover) *

Not applicable

Total revenue from the sale of goods and services, as reported in the applicant's Business Activity Statement (BAS).

Export revenue *

Not applicable

Total revenue from export sales, as reported in the applicant's Business Activity Statement (BAS).

R&D expenditure *

Not applicable

Expenditure on Research and Development, i.e. creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

Taxable income *

Not applicable

Taxable income or loss as per the Applicant's Business Income Company Tax Return Form.

Employees, including working

proprietors and salaried directors
(headcount) *

87

Not applicable

Number of individuals who are entitled to paid leave (sick and holiday), or generate income from managing the business.

Independent contractors (headcount) *

0

Not applicable

Number of individuals engaged by the business under a commercial contract (rather than an employment contract) to provide employee-like services on site.

Ultimate holding company

Does the applicant have an Ultimate Holding Company? *

Yes

No

Project details and funding

Project title and description

If your application is successful, the details you provide below will be published on the departmental website. Published project details will include:

- name of the applicant
- title of the project
- a description of the project and its intended outcomes
- amount of funding awarded.

Provide a project title. *

If the application is successful, this project title may be used by the Australian Government in published material.

Example project title: Eastern Suburbs Council Smart Waste Collection Project.

Connected Places

Provide a brief project description for publication on our website. *

Ensure your project description focuses on your project's key activities and outcomes. Explain what it is you are going to do and how it will help local governments and communities use smart technology and increase the accessibility and use of public data.

Example Project Description:

Transition Pty Ltd's smart infrastructure project to integrate sensors, vision systems, and wireless and network controls to share mass communication about traffic and weather conditions.

Transition Pty Ltd's smart precincts project to improve building comfort, through mitigation of urban heat and other weather extremes using intelligent systems.

Connected Places is a collaborative project between City of Prospect, City of Burnside, City of Port Adelaide Enfield, City of Playford, Campbelltown City Council, and the University of Adelaide to install remote sensors connected to a Low Power Wide Area Network to provide ongoing data about the usage of council assets such as parks and main streets. These open anonymous datasets will allow Councils to make more informed decisions regarding the management of public space assets, the efficient maintenance of parks, and to measure the success of place making and activation efforts on mainstreets. The installation of such a vast open low powered network, and open data will provide testing ground for "Internet of Things" (IoTs) technologies.

Project priority area

Which priority area does your project align with?

You can select more than one. More detail on the priority areas can be found in Table 1 of the program guidelines.

- Smart Infrastructure
Improving the efficiency, reliability, delivery and maintenance of infrastructure and essential services
- Smart Precincts
Making community precincts more liveable, productive, sustainable and safe
- Smart Services and Communities
Delivering community focussed local government services
- Smart Planning and Design
Building adaptable and resilient cities through improved land use, strategic planning and governance

Summary of activities and outcomes

Provide a summary of your project, including the key activities and project outcomes. Detail the challenge your project will address using a smart technology solution. List any products or services you will procure as part of the project.

Connected Places has four key innovative elements; Connected City, Connected Parks, Connected Mainstreets, Connected Facility Booking.

1. Connected City will create a free, open, accessible low powered network covering an additional 160km² servicing nearly one in four metropolitan residents via 10 loraWan gateways.
2. Connected Parks will engage an IT development group to place the approximately 100 sensors in the parks (and mainstreets) and engage with the community. The biggest opportunity for Council is to understand what is happening in the parks and how they need to best maintained.
3. Connected Mainstreets will use sensors to measure pedestrian movements on selected mainstreets.
4. Connected Facilities Booking sensors will supply data to the Facility Booking System for Councils application currently being produced by City of Prospect. The Facility Booking System will be a publically available app to be used by the community to access multiple local government facilities.

Project milestones and key activities

The start date of milestone 1 is the expected project start date. The end date of your last milestone activity will be the project end date.

Include timeframes for any procurement activities, including finalisation of any tenders, and when you expect to have engaged project partners.

We make an initial payment on execution of the grant agreement covering up to 6 months of eligible expenditure. We will make subsequent payments in arrears based on your achievement of activities and your eligible expenditure.

Milestone 1

Milestone title *

Private Partner Engagement

Milestone description *

- Expression of Interest released
- Tenders received
- Selection panel held
- Contract awarded

Milestone start date *

01 Nov 2017

Milestone end date *

30 Nov 2017

Milestone 2

Milestone title *

Low Powered Network

Milestone description *

Network designed and installed

Milestone start date *

01 Dec 2017

Milestone end date *

31 Jan 2018

Milestone 3

Milestone title *

Sensors installed

Milestone description *

Sensor location designed
Sensors procured
Sensors installed

Milestone start date *

01 Feb 2018

Milestone end date *

30 Mar 2018

Milestone 4

Milestone title *

Dashboard launched

Milestone description *

Data Dashboard design
Dashboard receiving data
Dashboard supplying data to Facility Booking System
Dashboard is made publically available

Milestone start date *

02 Apr 2018

Milestone end date *

27 Apr 2018

Milestone 5

Milestone title *

Adelaide University Analysis

Milestone description *

Adelaide University to supply data analysis for 6 month period from May - October 2018

Milestone start date *

01 May 2018

Milestone end date *

30 Nov 2018

Project duration

Project Start Date

Project End Date

01 Nov 2017

30 Nov 2018

Project budget

Provide details on your total eligible project costs over the life of the project. This includes the requested grant funding and all co-contributions.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

We only provide grant funding based on eligible expenditure. Refer to the [Program Guidelines](#) for guidance on eligible expenditure.

Cost item	FY 2017-18	FY 2018-19	Total
Labour costs		\$17,400	\$17,400
Contractor costs		\$61,000	\$61,000
Intellectual property and technology acquisition		\$178,500	\$178,500
Other costs	\$1,500	\$31,500	\$33,000
Total project costs	\$1,500	\$288,400	\$289,900

Source of funding

Complete the table below to show how the applicant will fund the eligible project costs.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

a. Applicant's contribution (\$A) *

\$35,000

b. Total project partner contribution (\$A)

\$110,000

c. Program grant amount (\$A) *

\$144,900

d. Other non-Commonwealth Government funding (\$A)

e. Total eligible project costs (\$A)

\$289,900

f. Grant percentage

49.98

Total government grant percentage (%)

49.98

The project cannot be funded by this grant in conjunction with any other Commonwealth grant. The total Commonwealth funding cannot exceed 50%.

Supportive documents

Provide the names of documents that you can provide to support your estimated project costs

Proposal by Connected Parks Proposal by Growing Data Foundation Connected Places Budget

Examples of supporting documents are equipment supplier quotes, contractor quotes, invoices etc. You do not need to submit these with this application form. However, if your application is successful you will be required to submit these documents before the grant agreement is finalised.

You can find more details in the [Program Guidelines](#).

Merit criteria

To be competitive you will need to score highly against each merit criterion. Your application will be assessed against the indicators listed beneath each merit criterion. The merit criteria are weighted as indicated by the points. The amount of detail and supporting evidence you provide should be commensurate with the project size, complexity and grant amount requested.

You may attach any other documents that support your application and/or claims made in relation to the merit criteria.

Merit criterion one (30 points)

The extent to which your project is innovative and uses smart technology and open data *

In assessing this criterion, we will consider:

- *The extent to which your project is innovative (see section 5.3 of the program guidelines).*
- *The extent that your project will promote open and accessible data*
- *The extent to which your project uses Smart Technology*
- *The degree that your project supports interoperability of systems and uses available standards, particularly open standards. Examples of existing open standards include data models based on CitySDK, data platforms based on CKAN, APIs based on the FIWARE NGSI API framework, and information discovery standards like Hypercat.*

This project will be a large innovative step for local government in South Australia. Through collaboration of the five partner councils, Connected Places will create the largest open access Low Powered Network in Australia (as of June 2017). According to the Things Network, no capital city has more than twelve open low powered network gateways in Australia. Adelaide has 4 existing open gateways. Connected Places intends to install an additional 10 gateways with a range in excess of 200km². This technology will create a vast stable network for entrepreneurs and innovators to build and test IoTs technology across metropolitan Adelaide in a way not possible in any other parts of the country.

Working off the backbone of this vast network, Connected Places will rollout sensor technology which will provide open data regarding the use of public spaces, not currently available to local government, residents or businesses. This sensor technology will measure the use of public assets and environmental conditions in parks, and foot traffic on main streets. This data will be made available through a publicly accessible dashboard, and through Data.SA. These new datasets, made available through Data.SA, will allow councils to improve efficiency through new data backed maintenance schedules, implement digital booking services for public facilities, and monitor the efficacy of place making strategies on mainstreets. This will allow local government the opportunity to make better decisions, improve outcomes, and provide better sustainably service the community.

These anonymous data sets will help businesses located on mainstreets to identify latent demand, advocate for possible regulatory/legislative change, and adjust their commercial offering by having a deeper understanding of how to drive foot traffic into their own businesses.

Project Partner City of Playford has experience via successfully rolling out their own Lora WAN "Things Network" in their innovation hub - the Stretton Centre. Their learnings will be vital to the development of the Connected Places Expression of Interest, and the awarding of the tender to a private sector partner.

This project aims to work with our private sector partner to identify the most appropriate data standard to apply to our project. This ground work will ensure that the five partner municipalities are using the same interoperable data standards. Through this project we will ensure any future expression of the sensor network will be consistent across a vast portion of metropolitan Adelaide.

University of Adelaide will use the data collected through Connected Places, and combine it with data from additional sources to provide advice to the partnering councils. The lessons learned through this process will be shared with other councils in an effort to simulate innovation and development of new business practices through the sector.

The innovative elements of this project are:

Connected City

- Australia's largest Low Powered Network
- Unique low cost test environment for social, environmental and IoTs initiatives
- Piloted with support of University of Adelaide's Smart City Consortium
- Multiple sites and projects
- Lessons learned through this project will be transferred to other LGAs in SA and Australia.

- Creation on new anonymized data set.
- Adelaide University students in start-up programs able to test new products.

Connected Parks

- Ability to measure the use of facilities in parks.
- Enable changes adjustments to public places and fixed assets.
- Uncover patterns of antisocial behaviour.
- Use data to inform master planning and asset management.
- Monitor environmental conditions more efficient maintenance schedule.

Connected Mainstreets

- Creation of publically available dashboard.
- Identify patterns of footfall and pedestrian hotspots.
- Assist with retail planning for business e.g. opening hours and site selection.
- Assist with Master Planning.
- Measure efficacy of place making and activation programs.

Connected Booking Facilities

- Provide app for the public to book a wide range of public facilities.
- Connecting community facilities, such as halls with businesses to hold events.
- Increase the use of council facilities.
- Provide new business opportunities to caterers, and wedding and event organisers.
- Allow council to make better decisions on what facilities to invest in.

Merit criterion two (30 points)

The scope of social, environmental and economic benefits your project will deliver *

In assessing this criterion, we will consider:

- *The level of social, environmental and economic project benefits to be gained. This may include improving:*
 - *the efficiency and effectiveness of and access to local government services and facilities*
 - *the health and quality of the natural environment, including increased efficiency in the use of natural resources*
 - *the financial sustainability of your community, including generating an ongoing revenue stream, cost savings, or leveraging investment from third-parties.*
 - *the urban environment, including safety, design landscape and green infrastructure*
 - *business and industry development including job creation and skills development*
 - *social equity and community cohesion*
- *The degree to which your project will transform the government sector:*
 - *by serving as a demonstration of best practice for others and the potential to scale up, roll out or replicate your solution in other communities; and/or*
 - *by supporting improved regulation.*

Connected Places will improve access to government facilities by providing real time data on the use of community facilities. Sensors will measure and provide data regarding tennis court, BBQs and other facilities. Additionally, parks sensors will monitor environmental conditions in parks allowing the facilities to be efficiently maintained to a higher standard.

The University of Adelaide will provide longitudinal analysis and research of the data from Connected Places sensors deployed in public spaces. This data when analyzed in conjunction with additional open data this may uncover other issues regarding the use of public spaces which may be used to further improve the environment, improve public safety by uncovering control anti-social behaviour.

City of Burnside and Campbelltown City Council will be using sensors deployed along Magill Road to help further their collaborative project to improve the Magill Village experience through the Magill Village Master Plan. The Magill Village precinct is centered on the intersection of Magill Road and St Bernards / Penfold Road in Magill. The Master Plan, which aims to improve public spaces in the area, improve pedestrian accessibility and foot traffic, rejuvenate retail activity in the Village, and enhance the recreation assets of the

precinct. The installation of Connected Places sensors will allow the two municipalities to assess the success of the Master Plan projects.

Additionally, City of Burnside will use sensors deployed in Tusmore Park. This park features mature trees, lawns and landscaped areas; play equipment, tennis courts, BBQ and picnic facilities and a children's wading pool believed to be the only free public pool of its kind in South Australia. Unfortunately, the pool is coming to the end of its operational life and this is the catalyst for the development of a management plan for the entire Park. Pedestrian data provided by Connected Places sensors will provide evidence of Park usage that will support Council's considerations for the future development and management of the Park.

The installation of a Connected Places open network such as a Lora WAN network will create a vast testing ground for scientists, stem students, environmentalist, engineers, homebased tinkers and makers to build simple sensors. Various groups will be able to build simple cheap sensors to target data regarding specific issues across metropolitan Adelaide and solve latent issues.

Smart Cities and IoTs technology is developing at such a fast rate, a project like Connected Places is vital to ensure local government agencies build compatible and open technologies. By working together we ensure that siloed thinking and duplication is minimized. This new vast network will provide an example to other councils, who may not be ready to IoTs now.

Societal and environmental benefits of this project are:

Connected City

- Pilot projects/test bed for Internet of Things technology
- Open to community
- Open for schools and STEM programs

Connected Parks

- Monitor environmental conditions in the park to improve maintenance and sustainability.
- Network can be used to monitor fauna, such as the bat and bird boxes being used in the Adelaide Parklands.
- Businesses can uncover usage patterns in the parks and create effective marketing plans.

Connected Mainstreets

- Identify footfall hotspots for new businesses.
- Creation of publically available dashboard for mainstreet associations and businesses.
- Low use areas could be targeted for upgrades or different uses.
- Allow landlords to adjust or justify commercial rental rates based on footfall.
- Use of data and dashboard by civil and mainstreet association for event planning.

Connected Booking Facilities

- Connecting community facilities, such as halls with businesses to hold events.
- Increase the use of council outdoor facilities.

Merit criterion three (20 points)

The extent of the project's community focus and impact on the liveability of the cities, suburbs and towns *

In assessing this criterion, we will consider:

- *The degree that your project will advance community goals including through alignment with any relevant strategic plans at the local, regional or state level.*
- *The level of engagement with citizens to ensure the project addresses community needs and has the support of the community.*
- *Your strategy to measure the project's success, including any targets and metrics*

Connected Places aims to create a vast interoperable, open network which in short term can be used to gather data on parks and mainstreets, but has the potential to be expanded; both in the range of the network, but also in the type of sensor connected to the network. This project will be the enabling piece of technology which will spark to life other projects and collaboration. Connected Places will be transformative in the type of data collected, the manner with which the data is openly shared publically, and the type of collaborative analysis and research provided by Adelaide University.

Additionally the data gathered, and the enabling nature of the open network supports the strategic goals of the partners of this project, as stated in their individual letters of support.

Local Strategic Goals

City of Prospect's "Strategic Plan to 2020" aims to increase its sense of prosperity though "more jobs, more investment, more activity, more vibrancy". This will be achieved by supporting a "stronger local economy" (Strategy 3.1), supporting a "more vibrant night-time" (Strategy 3.2), and "leveraging our digital advantage" (Strategy 3.3).

Connected Places will engage directly with the local business community and seek to improve their commercial offers. Additionally this project will open up data sets which may support future policy changes, such as the expansion trading hours.

Connected Places will support City of Prospect's strategy aims to increase its sense of place through a "loved heritage, leafy streets, and fabulous places". Connected Places will increase the level of data the city draws on while making strategic decisions to better "look after what we love; native fauna, parks, and colour" (strategy 2.2.1).

City of Prospect is committed to creating "engaging and innovative parks which provide a range of accessible leisure opportunities" (strategy 2.2.1). Connected Places will represent a new and innovative way for the community to access the cities leisure facilities through digital booking, and real time data

The data collected through Connected Places will help the University of Adelaide and City of Prospect to further maximise the opportunities created by the MOU. The MOU has the stated intention of working with city of prospect on research: "1) inform green space design that benefits residents; and 2) activate public spaces to encourage greater participation in public spaces by residents and visitors of Prospect."

City of Playford's Smart City Connected Community Strategy sets out six platforms describing the community's vision for the City, this includes Smart Service Delivery, Smart Health, Smart Living, Smart CBD, Smart Sport and Smart Jobs and Education. These pillars guide the decision making and investment of the City of Playford in order to create opportunities for our community and embrace new ways to solve existing problems.

State Strategic Goals

In September 2013, the Government of South Australia has committed the South Australian Public Sector to ensuring government data open. The Premier declared that SA data will be open by default; proactively released by government in accordance with international best practice; available online, free wherever possible, published using agreed open standards, and openly licensed for commercial and other re-use.

International Strategic Goals

Five out of the last six years, City of Prospect has been judged to be one of the top 21 intelligent communities in world by the international organization - The Intelligent Community Forum (ICF). Later this year, City of Prospect along with Eastern Region Alliance members, City of Burnside and Campbelltown City Council will seek ICF accreditation as a Smart 21 community. Connected Places meets all of the six key ICF indicators:

- Broadband access - including the installation of open access networks for the community
- Knowledge workforce - investment in physical and digital assets that enhance quality of life and provide ease and convenience to citizens and businesses in their dealings with government.
- Innovation - creation of a pipeline for talent, and signal to businesses and citizens that the community is a good destination for the "digiterati."
- Digital Equity - introducing programs for digital equipment and broadband connections to ease adoption.
- Sustainability - commit to a sustainable future, by seeking to improve local quality of life, from cleaner air and water and greater liveability.
- Advocacy - identify opportunities for positive change

The project success will be measured by the achieving the follow criteria:

- Measureable biannual increases in the number of independent sensors connected
- Data used to guide Council decision making regarding parks in the first 2 years
- Mainstreet data used to guide business decision making in the first 2 years
- Digital booking system app is being adopted by the community within two years.
- Students linked to start up programs are using network.

Merit criterion four (20 Points)

Your capacity, capability and resources to carry out the project *

To assess this criterion, we will consider:

- *The role of each project partner and how you will collaborate with them to improve your project outcomes*
- *Your track record managing similar projects*
- *Your access to personnel with the right skills and experience*
- *Your existing access to, or future access to, any infrastructure, capital equipment, technology, intellectual property, licences, radiofrequency spectrum etc.*
- *Your plan to manage and monitor the project, including planned governance and accountability arrangements*
- *The identification of key risks to the project's success and proposed treatments*
- *The level of continued support for, or capacity to, extend the project outcomes once the project is complete.*
- *The cash and in-kind contributions of all project partners. Additional investments such as cash contributions over 50 per cent or in-kind contributions will be highly regarded*

While Connected Places will be led by City of Prospect, this is a collaborative project between five municipalities and the University of Adelaide. As such, the project's governance structure will ensure that each partner is represented throughout the life of the project.

City of Prospect is leading the project with Prospect's Director of Business and Innovation taking the role of Project Sponsor; Prospect's Economic Development Coordinator taking the role of Prospect Manager. The Project Steering Committee (PSC) has been made up of representatives of the partnering councils and the University of Adelaide. The members of the PSC will be the key contact for each partner.

The Project Steering Committee will be made up of:

- Chris Hannaford, Director of Business and Innovation at City of Prospect.
- Chad King, Manager of Transformation at City of Playford.
- Kevin Lowe, General Manager of Urban Planning and Leisure Services at Campbelltown City Council.
- David Jury, Team Leader Information Management at City of Burnside.
- Bill Zhang, Manager of Major Project's at City of Port Adelaide Enfield.
- Dr Steve Kern, Strategic Partnerships Manager at the University of Adelaide.

In a pre-application meeting, the PSC have agreed to the outcomes of Connected Places project, and to a Draft budget (pending successful grant funding). When successful the PSC will hold a meeting to scope an Expression of Interest to appoint a private sector vendor to deliver the project.

Prospect has accredited as one of the top 21 intelligent communities in the world five out of the last six years by the international think tank, the Intelligent Community Forum. This is due to Prospect's fantastic record of delivering forward thinking smart cities projects, including the development of digital hub to improve digital literacy in the community; the installation of fast public Wi-Fi to improve digital equity. This makes City of Prospect well positioned to lead a smart city project such as Connected Places. Additionally, by collaborating with the City of Playford, their learning's from previously installing a pilot low powered public network can be leveraged to help Connected Places to be delivered in an efficient manner.

The University of Adelaide is an ideal partner for the achievement of Connected Parks' goals. The University has one of the most comprehensive research groupings in Smart Cities research in Australia. The University's Entrepreneurship, Commercialisation and Innovation Centre (ECIC) is regarded as best practice in Australia – and is helping other cities establish similar models of encouraging entrepreneurship globally. Connected Parks will allow entrepreneurs and data analysts associated with the University to further develop and commercialise new IoTs products.

Supporting documents

Supporting documents

Any supporting documentation you would like to attach to the application can be uploaded here. The following restrictions apply to attachments:

- Total file size of all attachments in the application should not exceed 20MB
- file size of each attachment cannot exceed 2MB
- only files with the following file type extensions can be uploaded (.pdf, .rtf, .doc, .docx, .xls, .xlsx)

For assistance with any technical issues experienced while completing this application form or attaching documents, please [Contact Us](#). Our website and staff can help you.

If you wish to include additional documents, these should be limited to those directly relevant to, and in support of, your application

File: Proposal Connected Parks.pdf

File: Proposal - Growing Data Foundation.pdf

File: Letter of Support - University of Adelaide.pdf

File: Letter of Support - Dept of Premier.PDF

File: Connected Places Budget.docx

File: Smart Cities MOU - City of Prospect.pdf

Contact details

Primary contact

Person authorised to act on behalf of the applicant. (Note: At least one phone number or mobile must be entered and all the remaining fields below are mandatory unless stated otherwise.)

Title

Mr

Given Name *

s47F

Family Name *

Position Title *

Economic Development Coordinator

Please enter either a phone or mobile number *

Phone

s47F

Mobile

Email *

@prospect.sa.gov.au

s47F

Provide the postal address of the primary contact.

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

PO Box 171

Address line 2

Address line 3

Suburb *

Propect

State *

SA

Postcode *

5082

Is the applicant the primary contact's employer? *

Yes

No

Feedback

How did the applicant hear about the program? *

- Advertisement
- Attend Public Forum
- Call Centre
- Direct Mail / Email
- Industry Group
- Internet
- Newspaper / Magazine
- Word of mouth
- Social Media
- Other

Applicant declaration

Privacy and confidentiality provisions

I acknowledge that this is an Australian Government program and that the department will use the information I provide in accordance with the following:

- [Australian Government Public Data Policy Statement](#),
- [Commonwealth Grants Rules and Guidelines](#),
- [Program Guidelines](#),
- applicable Australian laws.

Accordingly, I understand that the department may:

1. share information in this application with other government agencies:

- (a) for purposes directly related to the administration and governance of the Program;
- (b) for any purposes including government administration, research or service delivery; and

2. publish non-sensitive information in this application in the public domain, including on the department's website;

unless otherwise prohibited by law.

I confirm that I have read and understood the privacy, confidentiality and disclosure provisions outlined in the [Program Guidelines](#).

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

Applicant declaration

I declare that I have read and understood the [Program Guidelines](#).

I declare that the proposed project outlined in this application and any associated expenditure has been endorsed by the applicant's Board or person with authority to commit the applicant to this project.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, true, accurate and complete. I also understand that giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth).

I declare that the applicant will comply with, and require that its subcontractors and independent contractors comply with, all applicable laws.

I understand that I may be requested to provide further clarification or documentation to verify the information supplied in this form and that the Department of Industry, Innovation and Science (the Department) may, during the application process, consult with other government agencies, including State and Territory government agencies, about the applicant's claims and may also engage external technical or financial advisors to advise on information provided in the application.

I acknowledge that if the Department is satisfied that any statement made in an application is incorrect, incomplete, false or misleading the Department may, at its absolute discretion, take appropriate action. I note such action may include excluding an application from further consideration; withdrawing an offer of funding; using the information contained in the application for a fraud investigation that would be consistent with the Australian Government's Investigations Standard and Fraud Control Guidelines and for management purposes and/or terminating any Agreement between the Commonwealth and the recipient including recovering funds already paid.

I agree to participate in the periodic evaluation of the services undertaken by the Department.

I declare that I am authorised to complete this form and to sign and submit this declaration on behalf of the applicant.

I approve of the information in this application being communicated to the Department in electronic form.

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

By including my name in this application it is deemed to be my signature for the purpose of this application *

State your name *

State your email address *

s47F



Australian Government
**Department of Industry,
Innovation and Science**

Business

business.gov.au
13 28 46
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Smart Cities and Suburbs Program Application Form

Tracking Code: **ZRZK62W**

Receipt

Your form has been successfully submitted. Please keep a copy of this acknowledgement for your records.



Date and Time: **30 Jun 2017 4:08:41 PM**

Receipt Number: **SCSP-211**

To save or print a copy of the completed form and acknowledgement go to the "File" menu and select "Save as" or "Print".

Instructions

About the Smart Cities and Suburbs Program

The \$50 million Smart Cities and Suburbs Program supports the Australian Government's commitment to help local governments and communities use smart technology and increase the accessibility and use of public data so that:

- cities, suburbs and towns become more liveable, productive and sustainable and
- urban service delivery becomes more efficient and effective.

In line with the [Smart Cities Plan](#), the program supports projects that apply smart technology, data-driven decision making and people-focused design to deliver economic, social and environmental benefits in metropolitan and regional urban centres.

Projects will deliver innovative solutions that transform the government sector, advance community goals and address the needs of residents. The program will help to establish smart city innovation eco-systems and move Australia towards a global leadership position in smart city solutions.

Collaborative projects involving partners across multiple sectors and urban centres will:

- grow smart cities capability and capacity through shared knowledge and expertise
- drive innovation and wide adoption of solutions
- advance standards and improve regulation
- realise greater outcomes through maximum leverage of program funding.

The program will run over three years from 2016-17 to 2018-19 and may involve multiple rounds. Separate program guidelines will be issued outlining the arrangements for any future rounds of the program and will be available on business.gov.au.

Completing this form

Please read the [Program Guidelines](#) before completing this application form. Projects must have in-principle support from a local government agency or body at the time of application.

Disclosure of information

The Commonwealth's use and disclosure of your information (provided in this application or otherwise) is set out in the Smart Cities and Suburbs [Program Guidelines](#).

Google Places

The address search fields in this form use Google Places to help fill in the address details. By using this feature you agree to be bound by [Google's Terms of Service](#) and are subject to [Google's Privacy Policy](#).

Getting help

If you require assistance completing this application form please contact us on 13 28 46 or at business.gov.au. Our website and staff can help you with forms, finding business information and services and allow you to provide feedback, comments or suggestions.

You should also read and understand the [Program Guidelines](#) and general grant agreement before completing an application. View these documents at business.gov.au.

Requirements

This form functions best when it is completed using the most recent version of your internet browser. This form is not compatible with Internet Explorer 8 or earlier browsers. If you are using an earlier browser version, you may have difficulty in displaying the form correctly or it may not display at all.

Important information

Save Regularly. Click the 'Save for Later' button regularly while completing this form to ensure the information entered is saved. Saved forms will be retained for a maximum of 60 days. If you do not save or submit your form within this timeframe, you will need to start a

new form.

Do not use your internet browser's 'back' or 'refresh' buttons as this will cause the form to close and any unsaved information will be lost. Navigate between sections of the form by using the tabs at the top of the form or by clicking 'Continue' or 'Go Back' at the bottom of each page.

Sharing the form

The form can be viewed by more than one person by sharing the form's unique tracking code. However, sharing the form increases the risk of losing unsaved information. The reason for this is that only one person at any one time, has saving permissions for the application form. If the form is shared, save regularly as the last person that accesses the form has the saving permission. It is recommended that the form tracking code is not shared widely so as to avoid inadvertent loss of information.

Attachments

All attachments marked as required must be attached before your application can be submitted. Files with ".pdf, .rtf, .doc, .docx, .xls, .xlsx" extension types can be uploaded. Total file size of all attachments in the application should not exceed 20MB. Please note that there is a size limit of 2MB per attachment.

Submitting your form

Applications may be submitted at any time up until 5.00pm AEST on 30 June 2017.

You will be provided with a receipt to confirm that your submission has been successful. Please keep this receipt for your records by using the "Download the form and receipt" link or by emailing yourself a copy of the receipt and submission. Both of these options are available in the "To keep a copy of the completed form" box on the Submission Complete page.

If you have any enquiries relating to submission of your form, you will need to provide your receipt number.

Eligibility

Eligibility

This section will help you determine whether you are eligible to apply for the program.

Does your organisation have an ABN? *

For trustees applying on behalf of a trust, this refers to the ABN of the trust.

Yes

No

Is your organisation registered for GST? *

Yes

No

Select your type of organisation from the list below. *

Only the entity types listed below are eligible to apply for the program. Please refer to the [Program Guidelines](#).

a local government agency or body as defined in Appendix A of the program guidelines.

This includes the ACT Government

an entity incorporated in Australia

an incorporated trustee on behalf of a trust

a not for profit organisation

a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Will your project involve at least one private sector organisation during the life of the project? *

If you already have private sector project partners in place, later in this application you will need to attach a letter of support from the Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

We recognise that local governments, not for profit organisations and PFROs may not be able to nominate a private sector partner at the time of application. However in this application you must identify the goods and services that you will procure for your project.

Yes

No

Will your project involve at least one local government agency or body? *

Yes

No

Can you provide evidence that your project has in-principle support from a local government agency or body? *

Later in this application you must provide evidence of in-principle support by:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Yes

No

Are you able to start your project within two months of signing a grant agreement with the department? This can include procurement planning. *

We anticipate that grant agreements will be in place by 20 October 2017.

Yes

No

Does your project have at least \$200,000 in eligible expenditure? *

The minimum grant amount is \$100,000 (with a minimum project value of \$200,000). The maximum grant amount is \$5 million however the maximum project value can exceed \$10 million. Please refer to Appendix B of the [Program Guidelines](#) for more information on eligible expenditure.

Yes

No

Can you provide evidence that you can fund your minimum 50 per cent share of eligible project costs from funding sources other than the Commonwealth? *

Yes

No

Later in this application you must provide a letter from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each partner organisation outlining their contribution, and confirming they can fund their share of project costs.

Applicant information

Project partners

The lead applicant must complete this form and if the application is successful will enter into a grant agreement with the Commonwealth.

Please list all the project partner organisations for this application, starting with the lead applicant. If the lead applicant is a trustee of a Trust, enter the Trust's ABN.

Please enter the ABN of all Australian partners in the application and click the Validate button to retrieve your registration details.

Lead Applicant

Australian Business Number (ABN) *

37 882 817 280

Australian Company Number (ACN)

Entity name

UNIVERSITY OF WESTERN AUSTRALIA

Letter of in-principle commitment from your organisation including ability to co-contribute funding *

You must attach a letter from your Mayor, Chief Executive Officer or Chief Financial Officer with in-principle commitment to the project and in-principle allocation of the funding your organisation will contribute to the project.

File: RailSmart-UWA Letter of Support.pdf

Project partner 1

Australian Business Number (ABN) *

64 295 981 165

Australian Company Number (ACN)

Entity name

CITY OF WANNEROO

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser

- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

\$200,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

Letter of support from project partner organisations *

File: RailSmart-City of Wanneroo Letter of Support.pdf

Project partner 2

Australian Business Number (ABN) *

27 285 643 255

Australian Company Number (ACN)

Entity name

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project
- details of any cash contributions to the project
- an outline of the relevant experience and/or expertise the organisation will bring to the group
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)
- details of a nominated management level contact officer.

Letter of support from project partner organisations *

File: RailSmart-Dept of Transport WA Letter of Support.pdf

Project partner 3

Australian Business Number (ABN) *

54 361 485 361

Australian Company Number (ACN)

Entity name

EDITH COWAN UNIVERSITY

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator

Other

Funding contribution *

\$40,000

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- *a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- *an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

Letter of support from project partner organisations *

File: RailSmart-ECU Letter of Support.pdf

Type of applicant

In this section you must indicate what type of entity you operate under.

All entities must have an ABN.

All entities must be non-tax exempt incorporated organisations.

Select which type of entity your organisation is: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Applicant details

These details have been populated from the lead applicant information entered above.

Australian Business Number (ABN) *

37 882 817 280

Australian Company Number (ACN)

The entity name refers to the name that appears on all official documents or legal papers. The entity name may be different from the business name.

Entity name

Your business may have registered one or more business names. If you operate under a business or trading name you can enter alternate name(s) here. If your business or trading name is not listed here select 'other'.

Business/trading name

GST registered

ANZSIC details

What is the applicant's main business activity under the Australian and New Zealand Standard Industrial Classification (ANZSIC)?

The Australian and New Zealand Standard Industrial Classification (ANZSIC) is a classification system used by government to group data about organisations based on their primary business activity.

The ANZSIC codes and titles are available from the [Australian Bureau of Statistics \(ABS\) website](#). Phone 13 28 46 if you require assistance.

ANZSIC division *

ANZSIC class

Address details

Provide your Organisation Street Address (Australian Head Office)

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the Postal Address the same as the Organisation Street Address entered above? *

Yes

No

Website address

Provide your organisation's website address

www.uwa.edu.au

Project site address

Will the project's activities occur solely at the above listed head office address? *

A project site address must be a street address, not a postal address.

Yes

No

Latest financial year figures

Has the applicant existed for a complete financial year? *

Yes

No

Select the latest complete financial year. *

2015/16

Latest financial year figures

We collect the following data from all applicants across all grant programs. We use this data to better understand your organisation and to help us develop better policies and programs.

All amounts in the table below must show a whole dollar value e.g. \$1 million should be presented as \$1,000,000. The turnover value must be that of the entity that is making the grant application (the 'applicant'), regardless of whether the entity belongs to a consolidated group for tax purposes.

These fields are mandatory and entering \$0 is acceptable if applicable. If they clearly do not apply to your organisation you may select not applicable.

FY 2015/16

Sales revenue (turnover) * Not applicable

Total revenue from the sale of goods and services, as reported in the applicant's Business Activity Statement (BAS).

Export revenue * Not applicable

Total revenue from export sales, as reported in the applicant's Business Activity Statement (BAS).

R&D expenditure * Not applicable

Expenditure on Research and Development, i.e. creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

Taxable income * Not applicable

Taxable income or loss as per the Applicant's Business Income Company Tax Return Form.

Employees, including working proprietors and salaried directors (headcount) *

4082

Not applicable

Number of individuals who are entitled to paid leave (sick and holiday), or generate income from managing the business.

Independent contractors (headcount) *

Not applicable

Number of individuals engaged by the business under a commercial contract (rather than an employment contract) to provide employee-like services on site.

Ultimate holding company

Does the applicant have an Ultimate Holding Company? *

Yes

No

Project details and funding

Project title and description

If your application is successful, the details you provide below will be published on the departmental website. Published project details will include:

- name of the applicant
- title of the project
- a description of the project and its intended outcomes
- amount of funding awarded.

Provide a project title. *

If the application is successful, this project title may be used by the Australian Government in published material.

Example project title: Eastern Suburbs Council Smart Waste Collection Project.

RailSmart Wanneroo Planning Support System

Provide a brief project description for publication on our website. *

Ensure your project description focuses on your project's key activities and outcomes. Explain what it is you are going to do and how it will help local governments and communities use smart technology and increase the accessibility and use of public data.

Example Project Description:

Transition Pty Ltd's smart infrastructure project to integrate sensors, vision systems, and wireless and network controls to share mass communication about traffic and weather conditions.

Transition Pty Ltd's smart precincts project to improve building comfort, through mitigation of urban heat and other weather extremes using intelligent systems.

The RailSmart Wanneroo smart planning and design project will support local councils' integrated land use and transport decision-making, in co-development with the community and state government, to capture the value of significant heavy rail infrastructure investment. The project will catalyse local employment growth and shifts to public transport use, by activation of transit-oriented activity centre and last mile access solutions, delivering more jobs and better access. This will be enabled through a data-driven planning support system with enhanced capabilities in evaluation, prediction and monitoring of development impacts, underpinned by multiple data sources, integrating new smart ticketing, mobile app and road sensor data.

Project priority area

Which priority area does your project align with?

You can select more than one. More detail on the priority areas can be found in Table 1 of the program guidelines.

- Smart Infrastructure
Improving the efficiency, reliability, delivery and maintenance of infrastructure and essential services
- Smart Precincts
Making community precincts more liveable, productive, sustainable and safe
- Smart Services and Communities
Delivering community focussed local government services
- Smart Planning and Design
Building adaptable and resilient cities through improved land use, strategic planning and governance

Summary of activities and outcomes

Provide a summary of your project, including the key activities and project outcomes. Detail the challenge your project will address using a smart technology solution. List any products or services you will procure as part of the project.

This project will assemble, adapt, apply and activate a data-driven, planning support system, to evaluate, predict and monitor the impacts of integrated land use and transport planning solutions. The resulting evidence-base, enhanced with new smart ticketing and road sensor data, will better enable local government, in co-development with the community and state government, to harness the opportunities generated by significant investment in heavy rail infrastructure, to catalyse local employment growth and increase public transport patronage by activating transit-oriented activity centres, reducing the need for car travel outside the local area. Communities will benefit from more local jobs and better access, with overall decreases in congestion and associated greenhouse gas emissions as well as productivity and public transport system efficiency gains.

Services likely to be procured include digital ICT platform design and development, crowdsourcing and change management capabilities.

Project milestones and key activities

The start date of milestone 1 is the expected project start date. The end date of your last milestone activity will be the project end date.

Include timeframes for any procurement activities, including finalisation of any tenders, and when you expect to have engaged project partners.

We make an initial payment on execution of the grant agreement covering up to 6 months of eligible expenditure. We will make subsequent payments in arrears based on your achievement of activities and your eligible expenditure.

Milestone 1

Milestone title *

Establishment

Milestone description *

Work plan, procurement and sub-contracting. Assuming grant agreement execution by 20 October 2017, with procurement planning undertaken in parallel to the grant agreement process, a start date of 15 December 2017 is envisaged. A detailed work plan will be agreed by partners, clearly articulating roles, deliverables, timelines and reporting. The work plan will form the basis for contracting with partners and requests for proposal to procure the services of key providers.

Milestone start date *

15 Dec 2017

Milestone end date *

31 Mar 2018

Milestone 2

Milestone title *

Adapt Technology

Milestone description *

Fit-for-purpose design and specification of Connect Wanneroo community/stakeholder engagement strategy, activation strategy, tools, platform and data requirements/integration. Specification of planning questions to be supported. Informed by Connect Wanneroo 1 community/stakeholder feedback on needs, challenges and solutions, context analytics, best/worst practice learning re tools, solutions to be tested by tools, activity centre typology, performance and activation success in Perth and wider.

Milestone start date *

01 Apr 2018

Milestone end date *

31 Aug 2018

Milestone 3

Milestone title *

Apply Technology

Milestone description *

Define planning scenarios/solutions to be evaluated on the basis of best practice and context analysis. Data collection and integration. Populate and apply tools. Establish platform and dashboard prototype. Communicate and test tools, as well as collect data from community as part Connect Wanneroo 2.

Milestone start date *

01 Sep 2018

Milestone end date *

31 Jan 2019

Milestone 4

Milestone title *

Activate Technology

Milestone description *

Dissemination, diffusion and adoption. Implement change management process to embed the planning support system in City of Wanneroo business process. Test data integration processes. Establish monitoring and feedback processes. Ensure platform communication dashboard is effective as part of Connect Wanneroo 3. Complete documentation of project and include guiding manuals in the platform. Wider demonstration of best practice for others with recommendations for scale up, roll out or replication.

Milestone start date *

01 Feb 2019

Milestone end date *

30 Jun 2019

Project duration

Project Start Date

15 Dec 2017

Project End Date

30 Jun 2019

Project budget

Provide details on your total eligible project costs over the life of the project. This includes the requested grant funding and all co-contributions.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

We only provide grant funding based on eligible expenditure. Refer to the [Program Guidelines](#) for guidance on eligible expenditure.

Cost item	FY 2017-18	FY 2018-19	Total
Labour costs	\$250,000	\$450,000	\$700,000
Contractor costs	\$100,000	\$190,000	\$290,000

Intellectual property and technology acquisition	\$0	\$0	\$0
Other costs	\$3,000	\$7,000	\$10,000
Total project costs	\$353,000	\$647,000	\$1,000,000

Project Budget *

For projects over \$1 million you must attach a detailed project budget.

File: Project Budget FINAL.pdf

Project Plan *

For projects over \$1 million you must attach a detailed project plan.

File: Project Plan FINAL.pdf

Source of funding

Complete the table below to show how the applicant will fund the eligible project costs.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

a. Applicant's contribution (\$A) *

b. Total project partner contribution (\$A)

c. Program grant amount (\$A) *

d. Other non-Commonwealth Government funding (\$A)

e. Total eligible project costs (\$A)

f. Grant percentage

Total government grant percentage (%)

The project cannot be funded by this grant in conjunction with any other Commonwealth grant. The total Commonwealth funding cannot exceed 50%.

Supportive documents

Provide the names of documents that you can provide to support your estimated project costs

Examples of supporting documents are equipment supplier quotes, contractor quotes, invoices etc. You do not need to submit these with this application form. However, if your application is successful you will be required to submit these documents before the grant agreement is finalised.

You can find more details in the [Program Guidelines](#).

Merit criteria

To be competitive you will need to score highly against each merit criterion. Your application will be assessed against the indicators listed beneath each merit criterion. The merit criteria are weighted as indicated by the points. The amount of detail and supporting evidence you provide should be commensurate with the project size, complexity and grant amount requested.

You may attach any other documents that support your application and/or claims made in relation to the merit criteria.

Merit criterion one (30 points)

The extent to which your project is innovative and uses smart technology and open data *

In assessing this criterion, we will consider:

- *The extent to which your project is innovative (see section 5.3 of the program guidelines).*
- *The extent that your project will promote open and accessible data*
- *The extent to which your project uses Smart Technology*
- *The degree that your project supports interoperability of systems and uses available standards, particularly open standards. Examples of existing open standards include data models based on CitySDK, data platforms based on CKAN, APIs based on the FIWARE NGSI API framework, and information discovery standards like Hypercat.*

The RailSmart Wanneroo planning support system project is innovative in that:

- It applies existing technology, developed primarily to support state-level land use and transport planning tasks, innovatively adapting, extending and integrating these for new, local-level planning purposes, providing planning tools not previously accessible or directly applicable to the City of Wanneroo.
- It applies existing technology in a new context and at a different planning scale. The City of Wanneroo is the fastest growing, outer local council area in metropolitan Perth and the fifth fastest growing council area in Australia. The population is expected to almost double over the next 22 years from 180,000 to 354,000 by 2036 and ultimately over 550,000 by 2070. A major aspiration for the City is to create 100,000 new local jobs in the longer term.
- It applies and adapts existing technology to solve a new local planning challenge, delivering an outcome not previously realised. The recently announced Metronet 13.6km extension of the heavy rail line from Butler to Yanchep by 2020, provides the ideal opportunity on which to hinge the development of integrated land use and transport solutions to optimise the value of this significant infrastructure investment in delivering outcomes including jobs, amenity, access, connectedness for the communities in the north-west outer areas of Perth region.

The RailSmart Wanneroo project will promote open and accessibility data by integrating new travel time and volume data from smart data sources and will also apply a new method of using traditional census data to disaggregate employment data to better inform the targeting and employment self-sufficiency achievements. In particular, smart ticketing public transport patronage data and sensor-sourced road traffic volume data and will be harnessed and integrated with more traditional data sources such as Census Journey-to-work data, to populate the planning support tools, providing improved spatial and temporal resolution. Smart ticketing is a valuable source of travel behaviour data available at a finer spatial and temporal resolution but is not yet accessible to local government planners. SmartRider, SmartParker and Bus GPS data will be integrated and analysed together with other data from multiple sources and sensor networks, to provide more sophisticated information and capabilities for evaluation and monitoring of the development impacts of alternative land use and transport planning solutions to support decision making and improve governance at a local level. A novel aspect of our approach is that we will use smart city data sources (e.g. public transport ticket data, community engagement via mobile phones, road data) as inputs to our research. The goal is to incorporate evidence-based feedback loops into tools and decision making.

The project uses, demonstrates, applies and embeds smart technologies which generate, store, communicate and process data. This project harnesses smart technology in the form of a planning support system to evaluate, predict and monitor impacts of integrated land use and transport solutions, comprising:

- a suite of planning support tools which systematically processes data to inform specific planning tasks addressing specific local urban challenges. The tools to be adapted and applied, integrated with each other and driven by new smart data within a planning support platform, include:
 - o Enhanced Employment Self-sufficiency Tool to enable targeting and monitoring of employment types in relation to travel patterns.
 - o Activity Centre Node-place Analysis and Activation Tool to test the impact of alternative station design scenarios.
 - o Dynamic Accessibility Planning Tool to evaluate impacts of land use changes on access to workers and work using travel time data.
 - o A Rapid Appraisal Model to support economic benefit and cost assessments for proposed travel demand initiatives and last mile

solutions.

- an open, integrated planning support platform which will:
 - o store and integrate digital data sources in order to support data-driven, evidence-based planning models;
 - o provide access to open data sources and integrate knowledge discovery modules for generating new knowledge from the data., and
 - o communicate through a dashboard to visualise historic and real time activity, outputs of the tools and analysis of travel behaviour databases.

The RailSmart Wanneroo project will support interoperability of systems and uses available standards, particularly open standards. The platform will be designed to be configurable and modular, so that new planning modelling services can be added in the future. This allows the system to be ported for use by different user groups, including other local councils or state government departments, so supporting regional roll-out of the deliverables of this project. New open data sources can be integrated into the portal to enrich the evidence base.

Merit criterion two (30 points)

The scope of social, environmental and economic benefits your project will deliver *

In assessing this criterion, we will consider:

- *The level of social, environmental and economic project benefits to be gained. This may include improving:*
 - *the efficiency and effectiveness of and access to local government services and facilities*
 - *the health and quality of the natural environment, including increased efficiency in the use of natural resources*
 - *the financial sustainability of your community, including generating an ongoing revenue stream, cost savings, or leveraging investment from third-parties.*
 - *the urban environment, including safety, design landscape and green infrastructure*
 - *business and industry development including job creation and skills development*
 - *social equity and community cohesion*
- *The degree to which your project will transform the government sector:*
 - *by serving as a demonstration of best practice for others and the potential to scale up, roll out or replicate your solution in other communities; and/or*
 - *by supporting improved regulation.*

Improving Perth's Transport Network Efficiency

The City of Wanneroo has a major challenge to create 100,000 new local jobs primarily within emerging activity centres with train station nodes as their major focus of attention. The creation of employment intensity and diversification along the rail line in metropolitan Perth is absolutely critical to improve Perth's network efficiency, with only limited success achieved to date, with most transit oriented development (TOD) precincts falling short on jobs (justification – refer to Attachment 1). The WA State Government has also documented this need:

- "A connected city pattern of urban growth is characterised by ensuring that economic development and accessibility to employment inform urban expansion" (WA Department of Planning, Directions 2031 and Beyond, 2010, p.4)
- "By integrating land use with transport, it is possible for people to live and work closer to activity centres or along transport corridors" (WA Department of Transport, Draft Perth Transport Plan, 2016, p.41).

Rail Smart Wanneroo will use real time rail patronage and station usage data to improve the planning, design and activation of activity centre train station precincts along the Metro Net extension of the northern Perth passenger rail. The current efficiency and effectiveness of economic zones around rail stations will provide valuable insight into three traditional station sites on the northern coastal line, Clarkson, Butler and Joondalup. The reason for including Joondalup station is that it is a fully covered station designed within a strategic employment zone that currently caters for a range of employment, social, education, and civic activities. The final station focus is at the end of the southern rail line at Mandurah. This station was chosen as the future Yanchep station is also at the end of the metropolitan rail system and is the same distance from the Perth central station. Comparison data will provide significant insights into the strengths and weaknesses of the future Yanchep station economic zone.

Benefits

Specific projects benefits that will be delivered are:

- Challenge and change the local and State planning model to consider actual (rather than modelled) facilities and infrastructure usage and accessibility to target strategic employment uplift and add value to activity centres and purpose built station economic zones.
- Influence the design of purpose built station economic zones for employment generating commercial, business and mixed use opportunities around the station piazza
- Review and strengthen City of Wanneroo statutory planning regulations to allow for targeted, location specific development requirements and guidelines directly relating to community usage and employment need
- Provide direct data input and understanding of usage patterns to influence review of two major District Structure Plans: Alkimos-Eglinton and Yanchep-Two Rocks.
- Provision of data and front end interface to inform and influence assessment of local structure plans and development applications in regards to land required for employment purposes.
- Community data to influence private developers to fast track unique commercial designs and innovative architecture to provide an immediate sense of place.
- Increase openly available public and private data sets to support citizen engagement, unlock innovation, and create new business opportunities
- Behaviour change – facilitating the provision of local jobs in strategic economic zones to reduce metropolitan Perth’s reliance on the CBD for professional employment and transport infrastructure to access these jobs.

Replicability and Transforming Government Policy

Through Rail Smart Wanneroo the City of Wanneroo and WA Department of Transport (two project partners) are aiming to transform the way Perth metropolitan rail station precincts and employment zones are collaboratively planned and developed to maximise employment and community outcomes. This will be achieved through:

- Policy review and change (both local and State government).
- Inclusion of findings and results in the District Structure Plan reviews for Alkimos-Eglinton and Yanchep-Two Rocks.
- Inclusion in the City of Wanneroo Local Planning Strategy review
- Provide statistical justification to review and assess activity centre structure plans (submitted by developers) with a strong focus on economic and community outcomes rather than purely statutory planning regulations.

As part of this project, the University of Western Australia will complete a detailed project case study, including areas of success, learnings, areas for further research and points of replicability and consideration for future communities and economic transit zones. This will include interviews with key project participants and partners with their first-hand account, how it has transformed their work and what this means for the future. Our Department of Transport partner will facilitate wider roll-out.

Merit criterion three (20 points)

The extent of the project’s community focus and impact on the liveability of the cities, suburbs and towns *

In assessing this criterion, we will consider:

- *The degree that your project will advance community goals including through alignment with any relevant strategic plans at the local, regional or state level.*
- *The level of engagement with citizens to ensure the project addresses community needs and has the support of the community.*
- *Your strategy to measure the project’s success, including any targets and metrics*

Through community consultation in the development of the Strategic Community Plan 2017/18-2026/27, a number of aspiration and priorities were identified that will be advanced directly by this project:

- vibrant and connected communities
- sustainable natural and built environments
- attracting investment and job creation
- intensification and diversification of employment.

The City of Wanneroo has identified a major challenge to create 100,000 new local jobs primarily within emerging activity centres with train station nodes as their major focus of attention. In recognising this challenge, the City’s plan ‘Strategic Economic Growth’ 2016-2021’ focuses on transformational initiatives to stimulate major investment (public and private), drive economic growth and diversify our economic base. Transformational initiatives require certain key ingredients for success. Connectedness is critical. What is needed is smarter use of information and communications technology to stimulate innovation and the collection and analysis of real time data to inform decision-making.

The biennial City of Wanneroo residents’ survey of 400 local residents completed in June quarter 2017 showed top community priorities are (Justification – refer to attachment):

- streetscapes
- safety and security
- traffic management
- economic development and access to public transport.

The RailSmart project will particularly advance the last of these community priorities.

The City of Wanneroo has recently successfully completed two major community advocacy campaigns in lead up to the Federal and State Government elections: Fund our Future and Get on Board, Connect Wanneroo. The specific agenda was to prioritise the extension of the Mitchell Freeway and passenger rail to Yanchep. Significant community involvement was achieved including:

- 16,692 emails sent from City of Wanneroo residents to Federal politicians in Fund our Future; and
- 4,662 postcards received from residents in support of Connect Wanneroo State election campaign.

RailSmart Wanneroo will not reinvent another process to directly engage communities and stakeholders in the project but will instead reinvigorate and build on the preceding successful engagement processes. A co-developmental approach to involving the community will be taken with three Connect Wanneroo "living laboratory" opportunities created in each main stage of the project to receive inputs and provide feedback and outputs. Part of the reinvigoration is to introduce and test new crowdsourcing technologies to collect views and inputs and provide feedback, in combination with traditional survey methods.

A significant part of the project is devoted to activating the use of the smart tools in the planning process, involving communities and stakeholders. The approach involves an activation process to embed the tools and supporting data as part of a continuous business process within the City of Wanneroo. An activation strategy will be developed and implemented to operationalize and promote the value and use of the data driven tools. This process will include engagement with key State and local government decision makers, businesses and stakeholders regarding capability and processes through delivery of the tools for use, introductory awareness sessions, seminars and training on use of the tools. The strategy will identify and target individual/ influential decision makers to leverage support, develop synergies and embed use of the tools in business processes to achieve sustainable project outcomes, as well as direct engagement with the users of the tools.

The success of this planning support technology project in achieving more jobs in activated activity centres at new stations with more people walking, cycling and catching public transport will not be possible to measure in the short to medium term as the rail infrastructure has not yet been built. But the project will put in place the mechanism to enable the monitoring of success over time in terms via the tools, data and platform: accessibility, employment self-sufficiency, activity centre node-place functioning, last mile efficiency and public transport patronage are all measures which will be set in place in this project to measure over time. The project will deliver the baseline for these measures and the means for them to be monitored by smart data.

An on-line satisfaction survey will be conducted to gauge the level of satisfaction with the project and its outputs and outcomes, amongst key stakeholders.

Success will further be measured by:

- the number of stakeholders who participate in training in the use of the platform
- the number of inputs received as part of Connect Wanneroo process undertaken as part of the project
- evidence of the embedding of the technology in current business processes in the City of Wanneroo
- evidence of interest in take-up of the technology by other local government areas as part of activation

Merit criterion four (20 Points)

Your capacity, capability and resources to carry out the project *

To assess this criterion, we will consider:

- *The role of each project partner and how you will collaborate with them to improve your project outcomes*
- *Your track record managing similar projects*
- *Your access to personnel with the right skills and experience*
- *Your existing access to, or future access to, any infrastructure, capital equipment, technology, intellectual property, licences, radiofrequency spectrum etc.*
- *Your plan to manage and monitor the project, including planned governance and accountability arrangements*
- *The identification of key risks to the project's success and proposed treatments*
- *The level of continued support for, or capacity to, extend the project outcomes once the project is complete.*
- *The cash and in-kind contributions of all project partners. Additional investments such as cash contributions over 50 per cent or in-kind contributions will be highly regarded*

The Planning and Transport Research Centre (PATREC) at UWA will lead the project and contribute analysis, research and technical expertise from the Faculties of Science, Business and Computer Science to deliver the project outputs: tools, data integration and platform. A project steering committee comprising key representatives from each of the partner organisations will be constituted to ensure that agreed project outcomes are achieved.

The City of Wanneroo brings extensive local expertise and experience, particularly in relation to the successful Connect Wanneroo advocacy campaign which they will help roll-out for the purposes of this project to ensuring engagement with communities and stakeholders.

Department of Transport will provide advice on the strategic integration of project outputs with planned travel demand management and

other relevant transport projects at the State Government level and will provide leadership in the activation component. Edith Cowan University's knowledge of sharing economy and testing of solutions related to consumer behaviour linked to the "last mile" transportation problem will be main role. Curtin University's Spatial Sciences expertise will be used in delivering the integrated planning support platform.

As Director of PATREC, a collaboration between three WA universities and three WA government departments, Professor Sharon Biermann is responsible for delivering applied research in the connected spaces of transport and land use planning. She is currently leading an 18 month, \$700,000 program comprising five collaborative research projects being conducted by research associates across the three participating universities as well as contractors, with steering committee and research advisory committee participation from state government policy partners. Before joining PATREC, Sharon was at CSIRO as Program Manager of the South East Queensland Urban Water Security Research Alliance, responsible for managing a \$50 million research program over five years. She joined CSIRO after 15 years at CSIR, managing the Planning Support Systems competence area, published in the area, including: Biermann, S, Olaru D and Paül V (Eds) 2016. Planning Boomtown and Beyond. Perth, WA: UWA Publishing
Biermann S, Olaru D, Taplin J and Taylor M 2015: Pragmatic incremental or courageous leapfrog [re]development of a land use-transport modelling system for Perth, Australia, in Planning Support Systems and Smart Cities, Geertman, S., Ferreira, Jr., J., Goodspeed, R., Stillwell, J. (Eds.), Springer. <http://www.springer.com/us/book/9783319183671>
Biermann S M, 2011. Planning Support Systems in a Multi-Dualistic Spatial Planning Context. Journal of Urban Technology, 18, 4, 5 – 37.

PATREC is in an ideal position to lead this project as the necessary collaboration, governance, resourcing, project management (planning and monitoring), accountability and support (administration and infrastructure) arrangement are already in place and operation for most of the project partners - the City of Wanneroo will join the team for the duration of this project:

- access to a wide team of PATREC project research associates from across the partner universities and with some support from adjuncts, consultants
- projects are led by project steering committees - researchers are supported and enabled by a team of agency stakeholders to ensure that research is aligned with policy objectives and outcomes are well-communicated
- governance and accountability is through a Board comprising all six partners, meeting 3 times per year. The Research Advisory Committee provides higher level guidance, progress monitoring and access to researchers, policy-makers and data. Day-to-day accountability is through the host organisation, UWA
- PATREC is governed by a three-year rolling agreement, facilitating
 - o continued support and capacity for extend the project outcomes once the project is complete
 - o roll-out of the technology under the leadership of state government

Evidence relating to PATREC can be found at:

<http://www.patrec.uwa.edu.au/about>

http://www.patrec.uwa.edu.au/__data/assets/pdf_file/0004/3010972/PATREC-Annual-Report-2016.pdf.

Key risks to the project's success have been identified as:

- Some community members and stakeholders could be risk averse in terms of adopting new technologies and solutions (Level: Medium).
- As rail hubs often develop over many years the full benefits of the project may not be acknowledged in the short and medium term (Level: Medium).
- Agreement to use Smart Ticketing data for this particular project (Level: Low)

Cash and in-kind contributions of all project partners are as follows:

- City of Wanneroo, cash \$200,000; in-kind \$120,000
- Department of Transport, \$100,000; limited in-kind estimated at \$21,000
- The University of Western Australia, \$160,000; in-kind \$56,000
- Edith Cowan University, \$40,000; in-kind \$80,000
- Total Partner Funding, \$500,000; Total in-kind \$277,000

Supporting documents

Supporting documents

Any supporting documentation you would like to attach to the application can be uploaded here. The following restrictions apply to attachments:

- Total file size of all attachments in the application should not exceed 20MB
- file size of each attachment cannot exceed 2MB
- only files with the following file type extensions can be uploaded (.pdf, .rtf, .doc, .docx, .xls, .xlsx)

For assistance with any technical issues experienced while completing this application form or attaching documents, please [Contact Us](#). Our website and staff can help you.

If you wish to include additional documents, these should be limited to those directly relevant to, and in support of, your application

File: Rail Smart Wanneroo - Merit Criterion 2 – Justification.docx

File: Community Priorities from Catalyse Residents Survey.pdf

Contact details

Primary contact

Person authorised to act on behalf of the applicant. (Note: At least one phone number or mobile must be entered and all the remaining fields below are mandatory unless stated otherwise.)

Title

Professor

s47F

Given Name *

Family Name *

[Redacted]

Position Title *

Director, Planning and Transport Research Centre

Please enter either a phone or mobile number *

Phone

Mobile

[Redacted]

s47F

Email *

[Redacted]@uwa.edu.au

Provide the postal address of the primary contact.

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

The University of Western Australia

Address line 2

35 Stirling Highway (M087)

Address line 3

[Redacted]

Suburb *

Crawley

State *

WA

Postcode *

6009

Is the applicant the primary contact's employer? *

Yes

No

Feedback

How did the applicant hear about the program? *

- Advertisement
- Attend Public Forum
- Call Centre
- Direct Mail / Email
- Industry Group
- Internet
- Newspaper / Magazine
- Word of mouth
- Social Media
- Other

Applicant declaration

Privacy and confidentiality provisions

I acknowledge that this is an Australian Government program and that the department will use the information I provide in accordance with the following:

- [Australian Government Public Data Policy Statement](#),
- [Commonwealth Grants Rules and Guidelines](#),
- [Program Guidelines](#),
- applicable Australian laws.

Accordingly, I understand that the department may:

1. share information in this application with other government agencies:

- (a) for purposes directly related to the administration and governance of the Program;
- (b) for any purposes including government administration, research or service delivery; and

2. publish non-sensitive information in this application in the public domain, including on the department's website;

unless otherwise prohibited by law.

I confirm that I have read and understood the privacy, confidentiality and disclosure provisions outlined in the [Program Guidelines](#).

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

Applicant declaration

I declare that I have read and understood the [Program Guidelines](#).

I declare that the proposed project outlined in this application and any associated expenditure has been endorsed by the applicant's Board or person with authority to commit the applicant to this project.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, true, accurate and complete. I also understand that giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth).

I declare that the applicant will comply with, and require that its subcontractors and independent contractors comply with, all applicable laws.

I understand that I may be requested to provide further clarification or documentation to verify the information supplied in this form and that the Department of Industry, Innovation and Science (the Department) may, during the application process, consult with other government agencies, including State and Territory government agencies, about the applicant's claims and may also engage external technical or financial advisors to advise on information provided in the application.

I acknowledge that if the Department is satisfied that any statement made in an application is incorrect, incomplete, false or misleading the Department may, at its absolute discretion, take appropriate action. I note such action may include excluding an application from further consideration; withdrawing an offer of funding; using the information contained in the application for a fraud investigation that would be consistent with the Australian Government's Investigations Standard and Fraud Control Guidelines and for management purposes and/or terminating any Agreement between the Commonwealth and the recipient including recovering funds already paid.

I agree to participate in the periodic evaluation of the services undertaken by the Department.

I declare that I am authorised to complete this form and to sign and submit this declaration on behalf of the applicant.

I approve of the information in this application being communicated to the Department in electronic form.

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

By including my name in this application it is deemed to be my signature for the purpose of this application *

State your name *

State your email address * s47F



Australian Government
**Department of Industry,
Innovation and Science**

Business

business.gov.au
13 28 46
Delivered by AusIndustry™

Smart Cities and Suburbs Program Application Form

Tracking Code: **JPSDYPY**

Receipt

Your form has been successfully submitted. Please keep a copy of this acknowledgement for your records.



Date and Time: **30 Jun 2017 4:57:26 PM**

Receipt Number: **SCSP-225**

To save or print a copy of the completed form and acknowledgement go to the "File" menu and select "Save as" or "Print".

Instructions

About the Smart Cities and Suburbs Program

The \$50 million Smart Cities and Suburbs Program supports the Australian Government's commitment to help local governments and communities use smart technology and increase the accessibility and use of public data so that:

- cities, suburbs and towns become more liveable, productive and sustainable and
- urban service delivery becomes more efficient and effective.

In line with the [Smart Cities Plan](#), the program supports projects that apply smart technology, data-driven decision making and people-focused design to deliver economic, social and environmental benefits in metropolitan and regional urban centres.

Projects will deliver innovative solutions that transform the government sector, advance community goals and address the needs of residents. The program will help to establish smart city innovation eco-systems and move Australia towards a global leadership position in smart city solutions.

Collaborative projects involving partners across multiple sectors and urban centres will:

- grow smart cities capability and capacity through shared knowledge and expertise
- drive innovation and wide adoption of solutions
- advance standards and improve regulation
- realise greater outcomes through maximum leverage of program funding.

The program will run over three years from 2016-17 to 2018-19 and may involve multiple rounds. Separate program guidelines will be issued outlining the arrangements for any future rounds of the program and will be available on business.gov.au.

Completing this form

Please read the [Program Guidelines](#) before completing this application form. Projects must have in-principle support from a local government agency or body at the time of application.

Disclosure of information

The Commonwealth's use and disclosure of your information (provided in this application or otherwise) is set out in the Smart Cities and Suburbs [Program Guidelines](#).

Google Places

The address search fields in this form use Google Places to help fill in the address details. By using this feature you agree to be bound by [Google's Terms of Service](#) and are subject to [Google's Privacy Policy](#).

Getting help

If you require assistance completing this application form please contact us on 13 28 46 or at business.gov.au. Our website and staff can help you with forms, finding business information and services and allow you to provide feedback, comments or suggestions.

You should also read and understand the [Program Guidelines](#) and general grant agreement before completing an application. View these documents at business.gov.au.

Requirements

This form functions best when it is completed using the most recent version of your internet browser. This form is not compatible with Internet Explorer 8 or earlier browsers. If you are using an earlier browser version, you may have difficulty in displaying the form correctly or it may not display at all.

Important information

Save Regularly. Click the 'Save for Later' button regularly while completing this form to ensure the information entered is saved. Saved forms will be retained for a maximum of 60 days. If you do not save or submit your form within this timeframe, you will need to start a

new form.

Do not use your internet browser's 'back' or 'refresh' buttons as this will cause the form to close and any unsaved information will be lost. Navigate between sections of the form by using the tabs at the top of the form or by clicking 'Continue' or 'Go Back' at the bottom of each page.

Sharing the form

The form can be viewed by more than one person by sharing the form's unique tracking code. However, sharing the form increases the risk of losing unsaved information. The reason for this is that only one person at any one time, has saving permissions for the application form. If the form is shared, save regularly as the last person that accesses the form has the saving permission. It is recommended that the form tracking code is not shared widely so as to avoid inadvertent loss of information.

Attachments

All attachments marked as required must be attached before your application can be submitted. Files with ".pdf, .rtf, .doc, .docx, .xls, .xlsx" extension types can be uploaded. Total file size of all attachments in the application should not exceed 20MB. Please note that there is a size limit of 2MB per attachment.

Submitting your form

Applications may be submitted at any time up until 5.00pm AEST on 30 June 2017.

You will be provided with a receipt to confirm that your submission has been successful. Please keep this receipt for your records by using the "Download the form and receipt" link or by emailing yourself a copy of the receipt and submission. Both of these options are available in the "To keep a copy of the completed form" box on the Submission Complete page.

If you have any enquiries relating to submission of your form, you will need to provide your receipt number.

Eligibility

Eligibility

This section will help you determine whether you are eligible to apply for the program.

Does your organisation have an ABN? *

For trustees applying on behalf of a trust, this refers to the ABN of the trust.

Yes

No

Is your organisation registered for GST? *

Yes

No

Select your type of organisation from the list below. *

Only the entity types listed below are eligible to apply for the program. Please refer to the [Program Guidelines](#).

a local government agency or body as defined in Appendix A of the program guidelines.

This includes the ACT Government

an entity incorporated in Australia

an incorporated trustee on behalf of a trust

a not for profit organisation

a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Will your project involve at least one local government agency or body? *

Yes

No

Can you provide evidence that your project has in-principle support from a local government agency or body? *

Later in this application you must provide evidence of in-principle support by:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Yes

No

Are you able to start your project within two months of signing a grant agreement with the department? This can include procurement planning. *

We anticipate that grant agreements will be in place by 20 October 2017.

Yes

No

Does your project have at least \$200,000 in eligible expenditure? *

The minimum grant amount is \$100,000 (with a minimum project value of \$200,000). The maximum grant amount is \$5 million however the maximum project value can exceed \$10 million. Please refer to Appendix B of the [Program Guidelines](#) for more information on eligible expenditure.

Yes

No

Can you provide evidence that you can fund your minimum 50 per cent share of eligible project costs from funding sources other than the Commonwealth? *

Yes

No

Later in this application you must provide a letter from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each partner organisation outlining their contribution, and confirming they can fund their share of project costs.

Applicant information

Project partners

The lead applicant must complete this form and if the application is successful will enter into a grant agreement with the Commonwealth.

Please list all the project partner organisations for this application, starting with the lead applicant. If the lead applicant is a trustee of a Trust, enter the Trust's ABN.

Please enter the ABN of all Australian partners in the application and click the Validate button to retrieve your registration details.

Lead Applicant

Australian Business Number (ABN) *

60 008 985 877

Australian Company Number (ACN)

008 985 877

Entity name

RACWA HOLDINGS PTY LTD

Letter of in-principle commitment from your organisation including ability to co-contribute funding *

You must attach a letter from your Mayor, Chief Executive Officer or Chief Financial Officer with in-principle commitment to the project and in-principle allocation of the funding your organisation will contribute to the project.

File: 170630_Smart Cities and Suburbs Program Application_Hon Angus Taylor MP.pdf

Project partner 1

Australian Business Number (ABN) *

65 533 218 403

Australian Company Number (ACN)

Entity name

CITY OF SOUTH PERTH

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser

- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

Letter of support from project partner organisations *

File: scanned signed letter RAC Smart cities funding.pdf

Project partner 2

Australian Business Number (ABN) *

Australian Company Number (ACN)

Entity name

Select the type of entity for the project partner: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines
- other organisations, such as state and territory governments, statutory authorities or other government business enterprises, regional development authorities, regional organisations of councils as defined in Appendix A of the program guidelines

Role *

- Adviser
- Supplier
- Developer
- Analyst
- Researcher
- Technical Expert
- Test Partner
- Project Collaborator
- Other

Funding contribution *

If you are a private sector organisation, a not for profit organisation or a PFRO you must attach evidence that your project has in-principle support from a local government agency or body. You can demonstrate this by attaching:

- a letter from the relevant Mayor(s) or Chief Executive Officer(s) stating that the project is endorsed by local government leadership and supported by relevant council divisions, in principle, if grant funding is awarded, or*
- an approved Council minute from a formal meeting of Council*

Please note if you are a not for profit organisation or PFRO, your project must involve a local government agency or body and a private sector organisation.

You must attach a letter of support from each of the other organisations involved in the proposal.

If you already have project partner/s in place, you must attach a letter of support from the Mayor, Chief Executive Officer, Chief Financial Officer or equivalent of each project partner, including in-principle allocation of any funding they will contribute to the project.

Each letter of support should include:

- details of the project partner organisation
- an overview of how the organisation will work with the lead organisation and any other project partners to successfully complete the grant project
- details of any cash contributions to the project
- an outline of the relevant experience and/or expertise the organisation will bring to the group
- the roles and responsibilities of the organisation, and the resources it will contribute (if any)
- details of a nominated management level contact officer.

Letter of support from project partner organisations *

File: RAC Permit and Motor Insurance Policy 3442038.pdf

File: Department of Transport - RAC Automated Vehicle Trial - Request for Special Permit 12 July 2016 .pdf

Type of applicant

In this section you must indicate what type of entity you operate under.

All entities must have an ABN.

All entities must be non-tax exempt incorporated organisations.

Select which type of entity your organisation is: *

- a local government agency or body
- An entity incorporated in Australia
- an incorporated trustee on behalf of a trust
- not for profit organisation
- a Publicly Funded Research Organisation (PFRO) as defined in Appendix A of the program guidelines

Applicant details

These details have been populated from the lead applicant information entered above.

Australian Business Number (ABN) *

60 008 985 877

Australian Company Number (ACN)

008 985 877

The entity name refers to the name that appears on all official documents or legal papers. The entity name may be different from the business name.

Entity name

RACWA HOLDINGS PTY LTD

Your business may have registered one or more business names. If you operate under a business or trading name you can enter alternate name(s) here. If your business or trading name is not listed here select 'other'.

Business/trading name

RACWA HOLDINGS PTY LTD

GST registered

ANZSIC details

What is the applicant's main business activity under the Australian and New Zealand Standard Industrial Classification (ANZSIC)?

The Australian and New Zealand Standard Industrial Classification (ANZSIC) is a classification system used by government to group data about organisations based on their primary business activity.

The ANZSIC codes and titles are available from the [Australian Bureau of Statistics \(ABS\) website](#). Phone 13 28 46 if you require assistance.

ANZSIC division *

K Financial and Insurance Services

ANZSIC class

6322

Address details

Provide your Organisation Street Address (Australian Head Office)

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

832 Wellington Street

Address line 2

Address line 3

Suburb *

West Perth

State *

WA

Postcode *

6005

Is the Postal Address the same as the Organisation Street Address entered above? *

Yes

No

Provide your Organisation Postal Address

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

GPO Box C140

Address line 2

Address line 3

Suburb *

State *

Postcode *

Website address

Provide your organisation's website address

Project site address

Will the project's activities occur solely at the above listed head office address? *

A project site address must be a street address, not a postal address.

Yes

No

Latest financial year figures

Has the applicant existed for a complete financial year? *

Yes

No

Select the latest complete financial year. *

Latest financial year figures

We collect the following data from all applicants across all grant programs. We use this data to better understand your organisation and to help us develop better policies and programs.

All amounts in the table below must show a whole dollar value e.g. \$1 million should be presented as \$1,000,000. The turnover value must be that of the entity that is making the grant application (the 'applicant'), regardless of whether the entity belongs to a consolidated group for tax purposes.

These fields are mandatory and entering \$0 is acceptable if applicable. If they clearly do not apply to your organisation you may select not applicable.

FY 2016/17

Sales revenue (turnover) *

Not applicable

Total revenue from the sale of goods and services, as reported in the applicant's Business Activity Statement (BAS).

Export revenue *

Not applicable

Total revenue from export sales, as reported in the applicant's Business Activity Statement (BAS).

R&D expenditure * Not applicable

Expenditure on Research and Development, i.e. creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

Taxable income * Not applicable

Taxable income or loss as per the Applicant's Business Income Company Tax Return Form.

Employees, including working proprietors and salaried directors (headcount) * Not applicable

Number of individuals who are entitled to paid leave (sick and holiday), or generate income from managing the business.

Independent contractors (headcount) * Not applicable

Number of individuals engaged by the business under a commercial contract (rather than an employment contract) to provide employee-like services on site.

Ultimate holding company

Does the applicant have an Ultimate Holding Company? *

Yes

No

Project details and funding

Project title and description

If your application is successful, the details you provide below will be published on the departmental website. Published project details will include:

- name of the applicant
- title of the project
- a description of the project and its intended outcomes
- amount of funding awarded.

Provide a project title. *

If the application is successful, this project title may be used by the Australian Government in published material.

Example project title: Eastern Suburbs Council Smart Waste Collection Project.

RAC Automated Vehicle Trial

Provide a brief project description for publication on our website. *

Ensure your project description focuses on your project's key activities and outcomes. Explain what it is you are going to do and how it will help local governments and communities use smart technology and increase the accessibility and use of public data.

Example Project Description:

Transition Pty Ltd's smart infrastructure project to integrate sensors, vision systems, and wireless and network controls to share mass communication about traffic and weather conditions.

Transition Pty Ltd's smart precincts project to improve building comfort, through mitigation of urban heat and other weather extremes using intelligent systems.

RAC is a member organisation and works to ensure our members and the wider community have access to safer, easier and more sustainable mobility options.

In partnership with State and Local Government, RAC is working to test and evaluate a fully driverless, fully electric shuttle.

In this purposeful trial, RAC is seeking to understand how AVs operate and consider their likely impacts in Australia. The Trial's three aims are to:

1. Increase the understanding about the potential impacts and opportunities from the advent of AV technology;
2. Give Australians the chance to see AV technology and use and experience it; and
3. Further help Australia prepare a roadmap for changes to support and safely transition to AV technology.

Project priority area

Which priority area does your project align with?

You can select more than one. More detail on the priority areas can be found in Table 1 of the program guidelines.

- Smart Infrastructure
Improving the efficiency, reliability, delivery and maintenance of infrastructure and essential services

- Smart Precincts
Making community precincts more liveable, productive, sustainable and safe
- Smart Services and Communities
Delivering community focussed local government services
- Smart Planning and Design
Building adaptable and resilient cities through improved land use, strategic planning and governance

Summary of activities and outcomes

Provide a summary of your project, including the key activities and project outcomes. Detail the challenge your project will address using a smart technology solution. List any products or services you will procure as part of the project.

Aligned with its mobility agenda, RAC, with the support of WA State Government and the City of South Perth, launched Australia's first Automated Vehicle Trial on 31 August 2016 (RAC's Intellibus® Trial).

The Trial involves three stages, with each stage designed to test and evaluate AV technology in a variety of settings, involving increasing levels of complexity, then, interactions with road users:

- Stage 1: Closed testing undertaken at RAC's Driver and Training Education Centre;
- Stage 2: Closed stage undertaken on public roads outside of peak periods, without passengers;
- Stage 3: Open stage on public roads (comprising three phases) with the opportunity for the public to register and ride.

In one of the first public trials globally, the Intellibus® takes passengers along a 3.5 kilometre route in South Perth. The City of South Perth is a vibrant centre which is located four kilometres from the Perth GPO. The current route is Phase One of three proposed phase extensions.

Project milestones and key activities

The start date of milestone 1 is the expected project start date. The end date of your last milestone activity will be the project end date.

Include timeframes for any procurement activities, including finalisation of any tenders, and when you expect to have engaged project partners.

We make an initial payment on execution of the grant agreement covering up to 6 months of eligible expenditure. We will make subsequent payments in arrears based on your achievement of activities and your eligible expenditure.

Milestone 1

Milestone title *

Operation of the AV Trial beyond initial Trial plan and commitment

Milestone description *

Continue to operate beyond the initial commitment by funding the range of services and infrastructure required for the Trial including on-site hub, storage and security, RTK GNSS reference base, signage and bus stops as well as services including insurances, telecommunications, traffic management and registration portal. Further specialist technical support is required and includes safety audits and risk assessments. RAC has Chaperones to operate the shuttle and coordinate participants.

Milestone start date *

01 Sep 2017

Milestone end date *

31 Aug 2018

Milestone 2

Milestone title *

Phase Two: expansion of current Phase One route

Milestone description *

The Trial site in South Perth involves three phases with each phase expanding the route to test the vehicle in increasingly complex environments. Phase one is currently being delivered. Expansion of the route to phase two requires the testing and incorporation of new camera technology for lane keeping and localisation. This will be an early test case for investigating this technology in conditions which are specific to Australia.

Milestone start date *

01 Nov 2017

Milestone end date *

01 May 2018

Milestone 3

Milestone title *

Phase Three: expansion of Phases One and Two route

Milestone description *

Building on Phase Two, the third phase will require the incorporation of new Vehicle to Infrastructure (V2I or V2X) technology. Expansion of the route to phase three requires the integration of Sydney Coordinated Adaptive Traffic System (SCATS) with AVs. This will be an early test case for investigating this technology with the coordination and support of Main Roads WA. The results of this will inform the roll out of V2I technology in maximising network efficiency.

Milestone start date *

01 Jan 2018

Milestone end date *

31 Aug 2018

Milestone 4

Milestone title *

Trial wireless electric vehicle induction charging pad

Milestone description *

The Intellibus is a fully electric vehicle and can be charged either by using a standard plug, which requires manual intervention, or by using a specially supplied induction charger. A wireless induction charging station, installed at the Intellibus bus stop, would enable the vehicle to charge simply by parking over the magnetic induction pad. This new technology has enormous potential and would be critical to the efficient uptake and operation of both AVs and EVs in the future.

Milestone start date *

01 Dec 2017

Milestone end date *

31 Aug 2018

Milestone 5

Milestone title *

Integrate RTK GNSS with network of Reference Stations

Milestone description *

Autonomous vehicles rely on RTK GNSS for precise localisation and calculation of the vehicle's position. There is a need to test new reference stations to improve the communication of GNSS satellites on their culminating points within its radiation fields to optimise communication. This has the potential for better and more accurate localisation to allow autonomous vehicles to communicate its position with greater accuracy and less latency as well as allow allowing greater travel distances.

Milestone start date *

01 Sep 2017

Milestone end date *

31 Aug 2018

Milestone 6

Milestone title *

Data collection and analysis: community perceptions

Milestone description *

Monitoring community perceptions and experiences as well as understanding the social impacts of AV are key components of the Trial. A research framework has been developed comprising:

- Collation and analysis of pre and post-ride surveys,
- Independent monitoring of broader community perceptions (wave three and four),
- Expansion of data collection program to include interaction outside AV (wave one),

Milestone start date *

01 Sep 2017

Milestone end date *

31 Aug 2018

Milestone 7

Milestone title *

Optimisation through service enhancements

Milestone description *

Preliminary data shows 97.5% of Trial participants believe the shuttle, which aims to complement the existing transport system over the first and last mile, has the potential to be a viable mode in the future particularly in local suburbs. Working with our partners, RAC will test a number of technological service enhancements enabling real time fleet management whereby the shuttle can coordinate stops, embedding on-demand functionality (phone app), and the integration of a remote supervision.

Milestone start date *

01 Feb 2018

Milestone end date *

31 Aug 2018

Milestone 8

Milestone title *

Establish agreement with a national research partner

Milestone description *

RAC collects a significant amount of data including sensor data collected from each of the vehicle's AV sensors, but we believe more can be done to collate, analyse and disseminate this to assist local authorities. To maintain focus on the Trial's key objective, particularly policy development and community engagement aspects, RAC wishes to identify a tertiary research institution which will develop and expand the research program and further enable knowledge gathering and sharing.

Milestone start date *

01 Sep 2017

Milestone end date *

28 Jun 2019

Milestone 9

Milestone title *

Scoping of future Trial stages and expansion of the Automated Vehicles Program

Milestone description *

Proposals are well advanced for the procurement of a next generation vehicle, that will increase understanding of emerging technologies to adapt and operate them in an Australian setting. Further RAC wishes to Trial in regional settings. The average age of

the vehicle fleet is typically older in regional areas compared to their metropolitan counterparts. Smarter or more autonomous vehicle features are increasingly available in newer vehicles which can reduce the seriousness of road crashes.

Milestone start date * Milestone end date *

Project duration

Project Start Date Project End Date

Project budget

Provide details on your total eligible project costs over the life of the project. This includes the requested grant funding and all co-contributions.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

We only provide grant funding based on eligible expenditure. Refer to the [Program Guidelines](#) for guidance on eligible expenditure.

Cost item	FY 2017-18	FY 2018-19	Total
Labour costs			
Contractor costs			
Intellectual property a technology acquisition			s47G
Other costs			
Total project costs			

Source of funding

Complete the table below to show how the applicant will fund the eligible project costs.

Amounts must be GST exclusive. Note, the minimum grant amount under the program is \$100,000 and the maximum grant amount is \$5 million.

a. Applicant's contribution (\$A) *

b. Total project partner contribution (\$A)

c. Program grant amount (\$A) *

s47G

d. Other non-Commonwealth Government funding (\$A)

e. Total eligible project costs (\$A)

f. Grant percentage

Total government grant percentage (%)

The project cannot be funded by this grant in conjunction with any other Commonwealth grant. The total Commonwealth funding cannot exceed 50%.

Supportive documents

Provide the names of documents that you can provide to support your estimated project costs

<input type="text"/>	s47G
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Examples of supporting documents are equipment supplier quotes, contractor quotes, invoices etc. You do not need to submit these with this application form. However, if your application is successful you will be required to submit these documents before the grant agreement is finalised.

You can find more details in the [Program Guidelines](#).

Merit criteria

To be competitive you will need to score highly against each merit criterion. Your application will be assessed against the indicators listed beneath each merit criterion. The merit criteria are weighted as indicated by the points. The amount of detail and supporting evidence you provide should be commensurate with the project size, complexity and grant amount requested.

You may attach any other documents that support your application and/or claims made in relation to the merit criteria.

Merit criterion one (30 points)

The extent to which your project is innovative and uses smart technology and open data *

In assessing this criterion, we will consider:

- *The extent to which your project is innovative (see section 5.3 of the program guidelines).*
- *The extent that your project will promote open and accessible data*
- *The extent to which your project uses Smart Technology*
- *The degree that your project supports interoperability of systems and uses available standards, particularly open standards. Examples of existing open standards include data models based on CitySDK, data platforms based on CKAN, APIs based on the FIWARE NGSI API framework, and information discovery standards like Hypercat.*

The RAC Automated Vehicle Trial applies innovative smart technologies in the context of current day challenges.

This project aligns and meets Smart Cities criteria in the following ways:

- It is innovative and entirely new to the RAC, the City of South Perth and Australia as it:
 - o attempts a number of 'firsts' in Australia
 - o breaks new ground in project design;
 - o applies and adjusts prototype technology for the Australian context;
- Delivers outcomes which have not previously been realised in Australia:
 - o tackles a looming and major community issue;
 - o nurtures new industries by investing in the development of prototype technology;
 - o forms local, national and international partnerships;
 - o cements a culture of innovation, that ultimately may lead to new government service delivery models.
- Has deployed technology in a "novel" way:
 - o developing an entirely new Trial structure
 - o accepting (and managing) new risks in order to innovate
 - o learning through 'doing';
 - o engaging and giving back to the community.

Newness of the technology

RAC's Intellibus is fully driverless and, according to industry standardised levels of driving automation, is a level four high automation vehicle. It is fitted with multi-sensor technology providing 3D perception allowing it to map its environment, detect obstacles, interpret information and navigate. It operates autonomously through Global Navigation Satellite System (GNSS), Light Detection and Ranging (LIDAR), Stereovision Cameras and Odometry and includes a number of safety features including emergency stop buttons, SOS intercom, Autonomous emergency Braking, Auto Power Shortage Brake, Impact Sensor, seatbelts and self-diagnostics software.

Further testing is required to trial and investigate new sensor technology and these findings have the capacity to inform how smart technology and mobility can be produced, configured, and made available to consumers and service providers. These tests are particularly important to ensure new technology can operate in a climate and environment specific to Australian conditions.

Australia on the world stage

This purposeful and long term approach puts Australia on the world stage, moving beyond short-term demonstrations, by delivering a meaningful public trial. Our Trial is not a pursuit of technology for technology's sake, but a commitment to ensure AV technology can be applied to solve urban and regional mobility challenges in WA. Alongside a handful of worldwide trials, WA is leading the way in trialling fully driverless shuttles. The city of Sion, Switzerland is testing shuttles in the city's old town, and a similar trial is being planned in the Province of Gelderland, Netherlands. Presently, there are approximately three such trials in development in the UK. Google's driverless

car is arguably the best known AV operating on public roads in the United States and in Ann Arbor, Michigan a dedicated off-road test facility has been developed for evaluating AVs. In Gothenburg, Sweden, Volvo plans to trial 100 autonomous cars on selected roads from 2018.

Knowledge Transfer

This partnership trial is helping Australia across all levels of government and industry to gain and share practical knowledge by overcoming issues relating to vehicle registration, insurance, liability and risk. RAC is supporting the Trial with an extensive community consultation campaign to maximise engagement and raise awareness. It also continues to provide valuable insights into the potential of AV's, as well as some of the associated safety and infrastructure considerations. These insights continue to be widely and openly shared with a range of industry bodies including the Federal Government, the National Transport Commission, the Australian Driverless Vehicle Initiative and a range of State Governments (Main Roads WA, Transport for NSW, VicRoads), the Asset Management Council of Australia, the Australian Computer Society and others.

Merit criterion two (30 points)

The scope of social, environmental and economic benefits your project will deliver *

In assessing this criterion, we will consider:

- *The level of social, environmental and economic project benefits to be gained. This may include improving:*
 - *the efficiency and effectiveness of and access to local government services and facilities*
 - *the health and quality of the natural environment, including increased efficiency in the use of natural resources*
 - *the financial sustainability of your community, including generating an ongoing revenue stream, cost savings, or leveraging investment from third-parties.*
 - *the urban environment, including safety, design landscape and green infrastructure*
 - *business and industry development including job creation and skills development*
 - *social equity and community cohesion*
- *The degree to which your project will transform the government sector:*
 - *by serving as a demonstration of best practice for others and the potential to scale up, roll out or replicate your solution in other communities; and/or*
 - *by supporting improved regulation.*

While the private car is, and will continue to be, important to facilitate personal mobility for many, Australians should be able to access a range of viable and affordable options including public transport, cycling, walking, taxis and other forms of on-demand transport. Inequitable access to transport options can lead to social isolation, negatively impacting the health, wellbeing and quality of life of those in disadvantaged groups.

In particular, the availability of transport options becomes increasingly important in maintaining independence for those who can no longer drive, choose not to drive, or for whom driving is not an option (such as the elderly, young people and those with disabilities). The Australian Institute of Health and Welfare reports that 18 per cent of Australians (over four million people) currently have a disability, with around six per cent (or 1.4 million) experiencing severe or profound disability. While many people with a disability can still drive, for many others this is not an option or they require special equipment to enable them to do so.

Of the 1,200 respondents to RAC's Ageing and Driving Survey, 95 per cent of those residing in metropolitan Perth and 98 per cent in regional WA felt the ability to drive was very or extremely important. Similarly, losing that ability was viewed as likely to be a major problem for 79 per cent of metropolitan and 82 per cent of regional respondents.

The successful introduction of AVs could present a significant opportunity to address equity issues within the current transport system by providing improved mobility options for such groups. In fact, a majority of Western Australians (71 per cent) believe enhanced freedom and independence for the young, ageing and those with mobility difficulties is the most likely benefit which will occur from AVs. However, the increased convenience of single occupancy car travel must be balanced against the need to maintain the future viability of public transport services. It will be essential to ensure AVs complement, rather than compete with public transport to maximise the benefits of improved access and equity, and this will require action from all levels of Government.

Another key consideration from an equity perspective is the potential impacts on the cost of personal mobility. Transport affordability continues to be a concern for Western Australian households, with the overall cost of running an average medium sized car such as a Toyota Camry Atara being \$191.22 per week in 2016 based on RAC's Vehicle Running Costs survey.

The role of AVs as a service, complementing public transport in areas and over distances which are too short to travel by car but too far to walk – 'the first or last mile' – is a key consideration in the design of RAC's Intellibus™ Trial. The intent was not to replace existing services or routes but rather to explore how new technology might be utilised to increase travel options. Feedback received from those who have experienced RAC's Intellibus™ to date supports its use for such a service in WA, with 98 per cent of respondents to the post-ride survey stating they believe a vehicle like the Intellibus™ could be used for this purpose in the future.

Further, road injury is one of the largest causes of hospitalisation and death for Australians under 45 years of age, and serious road injuries accounted for \$27 billion per year or 18 per cent of Australia's total health expenditure. In Western Australia, too many people continue to die or be seriously injured on our roads, with 161 people dying on our roads in 2015 and 193 in 2016.

AVs use a number of sensors combined with localisation technology to constantly monitor a full 360-degree view of their environment. Autonomous and connected vehicles (both Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I)) could eliminate not only blind spots and unforeseen obstacles, but significantly reduce the probability of crashes by eliminating human error which accounts for almost 90 per cent of crashes. By automating the driving task, the possibility of a crash-free road environment is more likely than ever. For AV technology to really make an impact on road safety, there needs to be a greater understanding about the potential benefits of the technology in vehicle design and standards.

The Intellibus Trial is activity informing the development of a policy and legislative framework for AVs. To this end, the RAC has, and continues to, share findings from the Trial through a number of submissions:

- o Standing Committee Inquiry : Social issues relating to land-based driverless vehicles in Australia
- o NTC Discussion Paper: National Guidelines for Automated Vehicle Trials
- o Transport for NSW Future Transport Technology Roadmap
- o VicRoads Future Directions Paper: How Victoria will support the development of automated vehicles.

Merit criterion three (20 points)

The extent of the project's community focus and impact on the liveability of the cities, suburbs and towns *

In assessing this criterion, we will consider:

- *The degree that your project will advance community goals including through alignment with any relevant strategic plans at the local, regional or state level.*
- *The level of engagement with citizens to ensure the project addresses community needs and has the support of the community.*
- *Your strategy to measure the project's success, including any targets and metrics*

As a proud membership organisation with no shareholders, RAC reinvests its profits for the benefit of our members and the community. RAC strives to be the driving force behind creating a better WA and we give time and money towards ensuring safer roads, better transport options and a cleaner WA. RAC members are central to everything we do, from sponsoring WA's Rescue helicopters to championing their right to implementation of the Electric Highway, a network of electric vehicle charging stations in to the South West.

Perth is growing and forecasts show its population could increase by another 1.5 million, by 2050. Strong population growth brings challenges. It is predicted by 2031, seven of Australia's ten most congested roads, including the top four, will be in Perth. More worryingly, WA, like Australia more broadly, has a poor road safety record, with the fatality rate much worse than the other states. New technology must be part of the response to these challenges requiring investment and informed policy decisions.

A recent RAC survey revealed four in five Western Australians believe fully autonomous vehicles will be commercially available between 2020 and 2030. Three in five respondents agree the Government should be investing to ensure readiness for AVs by 2025 and half (52%) believe vehicle manufacturers and industry should be leading the way. Only one in five has confidence that it is possible for the Government to be ready in this timeframe. To ensure readiness, community support and the proper application of the technology, technical development and community engagement must go hand in hand.

To understand what Western Australians know, think and feel about AVs, RAC commissioned Painted Dog Research in March 2016, and again in November 2016, to undertake a community awareness and perceptions survey. The online survey was completed by 955 respondents (637 of which were RAC members and 318 non-members) from across WA (78 per cent from the Perth metropolitan area and 22 per cent from regional areas). Age, gender and location sampling quotas were applied and data has been weighted to be representative of the WA population, as well as RAC's membership composition. Further research waves are proposed, although these are currently unfunded.

"I read your article about the RAC driverless bus on your last issue. My 8 years old son is passionate about science and one of his favorite topics is what the cars are going to look like in a few years once they go driverless. So this article was of the highest interest for

us and I was wondering if there was any chance we could see your driverless bus, and maybe go for a ride. Or even help with the tests? That would be fantastic for my son... and for me as well". RAC Member, 2016

For people to truly understand AV technology, they must be enabled to touch and experience it. To date, 3,300 people have participated in our Trial and have ridden on RAC's Intellibus. In total, more than 8,000 people have registered to take part in the Trial so far. Post code analysis shows that South Perth residents are most likely to register to ride the shuttle, which has now traveled 3,379 kilometres. All participants complete a pre- and post-ride survey to gauge their views. Survey and data collection projects are also proposed to capture the views of road users who directly interact with the shuttle from outside the vehicle, although this activity is currently unfunded.

As well as conducting community perceptions research, the Chaperones also complete a report which describes each and every journey, such as software or hardware issues, and unexpected traffic interactions after each ride. This information, as well as camera data, is being collated. RAC intends to take on a Research partner to assist in expanding data collection activities and reporting.

Merit criterion four (20 Points)

Your capacity, capability and resources to carry out the project *

To assess this criterion, we will consider:

- *The role of each project partner and how you will collaborate with them to improve your project outcomes*
- *Your track record managing similar projects*
- *Your access to personnel with the right skills and experience*
- *Your existing access to, or future access to, any infrastructure, capital equipment, technology, intellectual property, licences, radiofrequency spectrum etc.*
- *Your plan to manage and monitor the project, including planned governance and accountability arrangements*
- *The identification of key risks to the project's success and proposed treatments*
- *The level of continued support for, or capacity to, extend the project outcomes once the project is complete.*
- *The cash and in-kind contributions of all project partners. Additional investments such as cash contributions over 50 per cent or in-kind contributions will be highly regarded*

A partnership approach

Any agency or organisation seeking to undertake a trial of automated vehicles, must accept a number of risks and challenges. Equally, regulators allowing the trial of an automated vehicle must ensure that risks and challenges are appropriately identified and carefully mitigated. A strong partnership, built on mutual trust and collaboration is critical and RAC, the City of South Perth, Main Roads WA, Public Transport Authority, Insurance Commission of WA, and Department of Transport (as issuer of the Special Permit to operate on Public Roads) continue to meet on a regular basis to provide updates and share knowledge. RAC also has a strong relationship with vehicle manufacturer Navya. Navya has trained RAC personnel at their Plant in Lyon, France and we continue to work closely with their R & D team to feedback Trial findings.

A longstanding objective of launching the trial is to encourage and develop further trials, build research and also encourage wider collaboration. To this end, we are additionally providing commissioning and maintenance assistance to other entities Trialling AV technology including Curtin University.

Our track record

RAC is an owner and/or operator of a range of businesses including Insurance, Roadside Assistance, Finance, Security, Retirement Living, Travel and Tourism. RAC brings considerable skills and expertise to the Trial, maximising the likelihood of its ongoing success. We are a trusted Western Australian organisation with a membership of over 900,000 members, approximately 80% of which reside in metropolitan Perth.

The RAC collaborates with Government and other industry organisations and has particularly strong relationships with the Local, State and Federal Government. We are also an experienced operator of customer-facing businesses and a provider of mobility related products and services and have additionally implemented several large and complex community-focused projects including the Elephant in the Wheatbelt and a network of Electric Highway Charging Stations.

We stay in touch with the community through a range of communication channels including Horizons Magazine (distributed to all members or one in every two households in WA) and have an extensive team of transport planning and engineering professionals. By managing the Trial in house we have ensured RAC retains the high level of oversight required to effectively manage Trial safety and operations.

Stage one

Following vehicle commissioning (26 April to 23 May, 2016), the closed testing stage was undertaken over six weeks (23 May to 29 June, 2016). With no pre-existing test procedure in place, RAC worked hands-on with local specialist technicians and Navya to develop an extensive test plan. The scope of this phase was to observe the vehicle and investigate the limitations of its predicted behaviour including testing its boundaries of perception and operation in automatic mode.

Stage two

Critical steps in this process include selecting a route, gaining approvals, developing a communications campaign and identifying an evaluation framework. RAC, with WSP Parsons Brinkerhoff and State Government, developed a multi-criteria framework for assessing appropriate routes. The complexities of route selection cannot be overstated, with numerous factors requiring consideration. Ultimately, 23 site reports were completed. Following route selection, RAC worked closely in partnership with the City of South Perth and the WA Government to prepare the route. This included obtaining site approvals, installing GPS base and antenna, building storage facilities and an on-site information Hub. The RAC team also carried out the mapping of the Trial route which required establishing communications connection, configuring GPS base, and making path corrections to deliver final path.

Stage three

The first of three phases is now operating as part of Stage three. A number of core requirements support Stage three including risk assessments, independent road safety audits, Traffic Management Plans, feature surveying, the development of a liability framework and reporting structure. Two future phases are proposed which will not only expand the route, but also the complexity of the technology and operating systems being tested.

Funding

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While RAC has been pleased to make this commitment, the opportunities and therefore Trial scope continue to grow. External funding support (for not more than 50 per cent of the project costs) would ensure RAC is able to continue as well as expand the Trial and enable these opportunities to be capitalised on.

Governance - a safety first approach

A trial's outcome has the potential to accelerate or stall the adoption of automated vehicles and RAC has taken a safety first approach. The Trial is monitored by the RAC Risk Committee and has been audited by PWC.

Supporting documents

Supporting documents

Any supporting documentation you would like to attach to the application can be uploaded here. The following restrictions apply to attachments:

- Total file size of all attachments in the application should not exceed 20MB
- file size of each attachment cannot exceed 2MB
- only files with the following file type extensions can be uploaded (.pdf, .rtf, .doc, .docx, .xls, .xlsx)

For assistance with any technical issues experienced while completing this application form or attaching documents, please [Contact Us](#). Our website and staff can help you.

If you wish to include additional documents, these should be limited to those directly relevant to, and in support of, your application

File: Letter Minister Fletcher.pdf

File: Intellibus.pdf

Contact details

Primary contact

Person authorised to act on behalf of the applicant. (Note: At least one phone number or mobile must be entered and all the remaining fields below are mandatory unless stated otherwise.)

Title

All s47F

Given Name *

Family Name *

Position Title *

Please enter either a phone or mobile number *

Phone

Mobile

Email *

Provide the postal address of the primary contact.

Google Places - start entering your address to search Google Places and if found will auto fill the fields below. If not found, please enter the address details directly in the fields below.

Address line 1 *

Address line 2

Address line 3

Suburb *

State *

Postcode *

Is the applicant the primary contact's employer? *

Yes

No

Feedback

How did the applicant hear about the program? *

- Advertisement
- Attend Public Forum
- Call Centre
- Direct Mail / Email
- Industry Group
- Internet
- Newspaper / Magazine
- Word of mouth
- Social Media
- Other

Please provide details *

Referred to program by Hon Angus Taylor MP, Assistant Minister for Cities and Digital Transformation

Applicant declaration

Privacy and confidentiality provisions

I acknowledge that this is an Australian Government program and that the department will use the information I provide in accordance with the following:

- [Australian Government Public Data Policy Statement](#),
- [Commonwealth Grants Rules and Guidelines](#),
- [Program Guidelines](#),
- applicable Australian laws.

Accordingly, I understand that the department may:

1. share information in this application with other government agencies:

- (a) for purposes directly related to the administration and governance of the Program;
- (b) for any purposes including government administration, research or service delivery; and

2. publish non-sensitive information in this application in the public domain, including on the department's website;

unless otherwise prohibited by law.

I confirm that I have read and understood the privacy, confidentiality and disclosure provisions outlined in the [Program Guidelines](#).

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

Applicant declaration

I declare that I have read and understood the [Program Guidelines](#).

I declare that the proposed project outlined in this application and any associated expenditure has been endorsed by the applicant's Board or person with authority to commit the applicant to this project.

I declare that the information contained in this application together with any statement provided is, to the best of my knowledge, true, accurate and complete. I also understand that giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth).

I declare that the applicant will comply with, and require that its subcontractors and independent contractors comply with, all applicable laws.

I understand that I may be requested to provide further clarification or documentation to verify the information supplied in this form and that the Department of Industry, Innovation and Science (the Department) may, during the application process, consult with other government agencies, including State and Territory government agencies, about the applicant's claims and may also engage external technical or financial advisors to advise on information provided in the application.

I acknowledge that if the Department is satisfied that any statement made in an application is incorrect, incomplete, false or misleading the Department may, at its absolute discretion, take appropriate action. I note such action may include excluding an application from further consideration; withdrawing an offer of funding; using the information contained in the application for a fraud investigation that would be consistent with the Australian Government's Investigations Standard and Fraud Control Guidelines and for management purposes and/or terminating any Agreement between the Commonwealth and the recipient including recovering funds already paid.

I agree to participate in the periodic evaluation of the services undertaken by the Department.

I declare that I am authorised to complete this form and to sign and submit this declaration on behalf of the applicant.

I approve of the information in this application being communicated to the Department in electronic form.

By checking this box I agree to all of the above declarations and confirm all of the above statements to be true *

By including my name in this application it is deemed to be my signature for the purpose of this application *

State your name *

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State your email address *