

# Adelaide Smart City Credentials

Purposefully designed  
with people in mind

[cityofadelaide.com.au/smartcity](http://cityofadelaide.com.au/smartcity)



CITY OF  
ADELAIDE

# Why Adelaide?

Adelaide is on track to becoming one of the world's smartest cities with a globally connected and opportunity rich economy.

City of Adelaide puts people and businesses at the centre of everything we do. Our focus is on creating an ecosystem of open and citizen-driven innovation, building and sharing resources and services to generate new standards in the way people live, learn, work and do business.

## Hyper-connected city

We are embedding 21st century digital technology into our city's infrastructure to improve the functionality and integration of the entire city and economy.

A network of sensors support smart city projects and allow us to better manage functions such as energy consumption, carbon emissions and the movement of people.

We have created a hyper-connected city with free Wi-Fi, a Ten Gigabit Adelaide ultra-fast and affordable fibre optic network, and supported the Government's Gig City and nbn™ initiatives and the deployment of LoRaWAN and 5G mobile technology.

## Research, education, innovation

Adelaide boasts three world class research universities, an entrepreneurial ecosystem that is sparking with potential and a focus on future industries.

We have a comparative advantage in the hi-tech sector, with clusters in medtech, cyber security, advanced manufacturing, advanced data analytics, AI and creative industries.

Lot Fourteen, an innovation neighbourhood located at the former Royal Adelaide Hospital, has strong links to the defence and space technology industries and is home to the Australian Institute of Machine learning and the Australian Space Agency.

## Collaborative and accessible

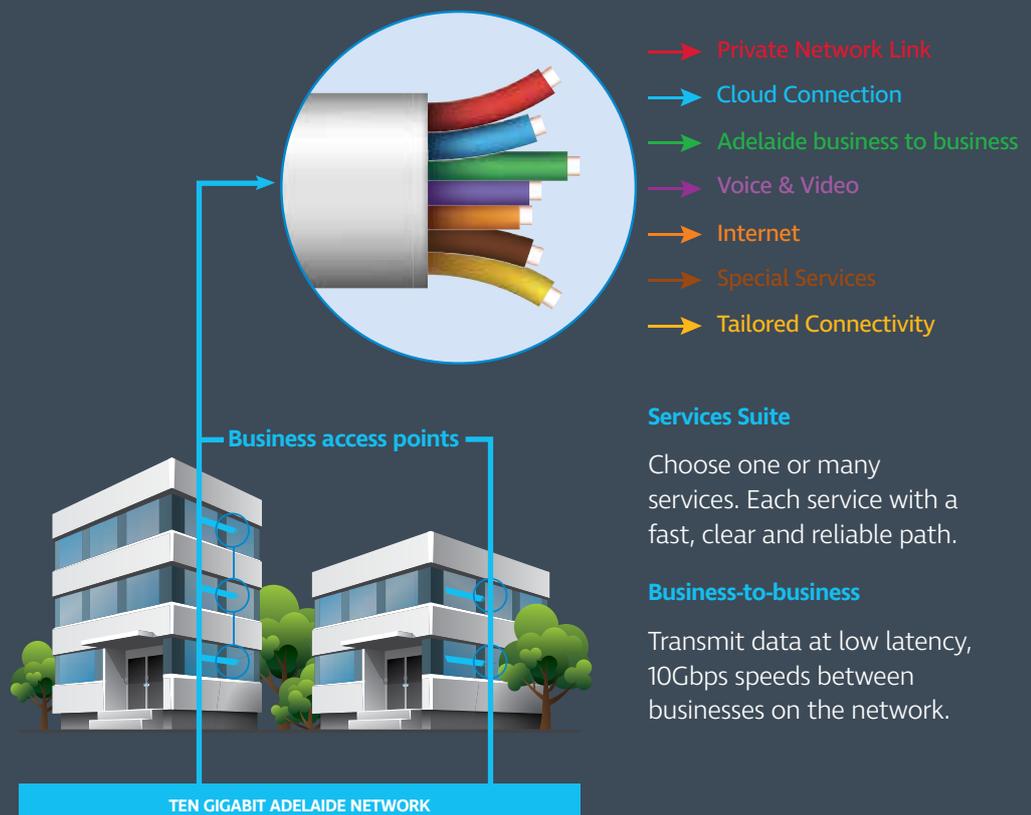
We have all the elements for success, and Adelaide's governing bodies, corporates and universities work closely together to advance our smart city achievements.

## Ten Gigabit Adelaide

Ten Gigabit Adelaide is a revolutionary fibre-optic network enabling businesses to access phenomenal 10Gbps data speeds.

City of Adelaide has partnered with TPG Telecom and has commenced installation of the network with nearly 100 buildings already connected and another 900 expected to be connected within the next two years.

As well as complementing the Adelaide Free WiFi network, Ten Gigabit Adelaide will facilitate the expansion of city-wide projects such as smart parking, smart lighting and smart waste bin technology.



# Our smart city vision

## Imagine...

A city where the effective use of sensors and smart technology have made Adelaide the world's first carbon neutral city.

A city that is so event-friendly that traffic light sequences change to ease congestion and where streetlights dim to save energy, but burn brighter when pedestrians approach.

A university city where you can top-up your parking metre via an app, and where cutting edge research is driving the economy forward.

A city where streets are brought to life through music, virtual reality and projected art installations.

## A city designed for life.



## AdelaideFreeWiFi

AdelaideFree is a high performing WiFi network providing free wireless outdoor connectivity via 200+ access points across the city.

The network was the first of its kind in Australia when it officially launched in 2014. It is the largest and most performing city wifi network in Australia and is on par with the best in the world in terms of coverage and services offering.

In October 2018, it clocked 196,669 unique devices connected, with over 2.3 million connected sessions, lasting 28 minutes on average.

## Adelaide Smart City STUDIO

The Adelaide Smart City Studio was established as a joint venture between the South Australian State Government and Cisco to create an IoT innovation hub.

The Studio nurtures aspiring smart city entrepreneurs looking to establish and build globally scalable businesses, from Adelaide.

The collaboration space is centrally located behind Adelaide Town Hall. Smart city enterprises can book the Studio at:

[adelaidesmartcitystudio.skedda.com](http://adelaidesmartcitystudio.skedda.com)

## Smart City Accelerator

Adelaide is a renowned location for testing urban technology; from street lights and bin systems to scooters and autonomous vehicles.

The city is an ideal living lab and the Entrepreneur Support Program supports teams with access to city infrastructure and data to trial new smart city solutions that will change the way people experience cities around the world.

The program is currently supporting a team using artificial intelligence to locate water grid faults, who are now making inroads to international markets.

## Smart Waste Bins

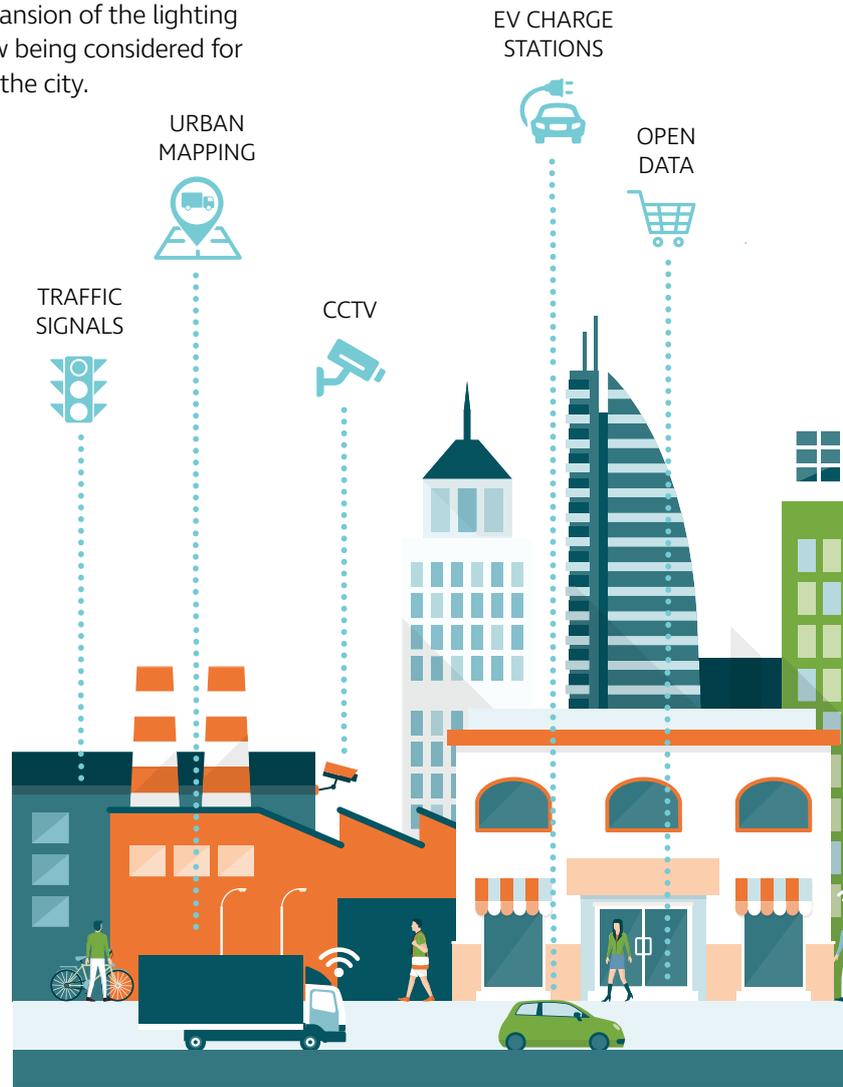
We're trialling solar-powered smart bins in key areas of the city to help keep our streets cleaner and more attractive. The 'Clean Cube' bins use innovative cloud-based technology to optimise waste collection. Inside each cube is a normal wheelie bin which sits under a solar-powered sensor that provides real-time data information about how full the bin is and when it needs to be emptied. The cubes also contain a compactor which condenses the rubbish inside when it reaches a certain level. This enables a 120-litre bin to hold up to 960 litres of rubbish – about eight times more rubbish than a normal waste bin. Once the bin reaches a desired fill level, the sensor notifies the city's cleansing team that the bin needs to be emptied.

## Smart Lighting

The City of Adelaide partnered with lighting specialist Sensity to upgrade more than 60 street lights to LED with smart technology that enables on-demand lighting and energy conservation. The trial resulted in a 50% reduction in energy consumption and a further 7% saving from motion trigger and light harvesting. Expansion of the lighting upgrade is now being considered for other areas of the city.

## Smart City Parking

Adelaide's smart parking technology uses in-ground sensors, along with an app, providing the public with accurate real-time information about parking availability. Users can pay for their parking, and top-up their payment remotely.



### TEN GIGABIT ADELAIDE UNDERPINS A SMART CITY

"The smart cities market is anticipated to surpass US\$1TN in 2019"

Global Market Study on Smart Cities:  
Fastest Growth During 2018 – 2026

"Ten Gigabit Adelaide can be the solution for attracting head offices to Adelaide, creating jobs, driving creativity, innovation, investment and so much more."

Former Lord Mayor of Adelaide, Martin Haese.  
Chair, Premier's Climate Change Council  
Chief Executive, Business SA

"We remain focused on establishing Adelaide as a dynamic and liveable smart city, underpinned by robust innovation and support programs."

South Australia's previous Science and Information Economy Minister Kyam Maher

## Open Data

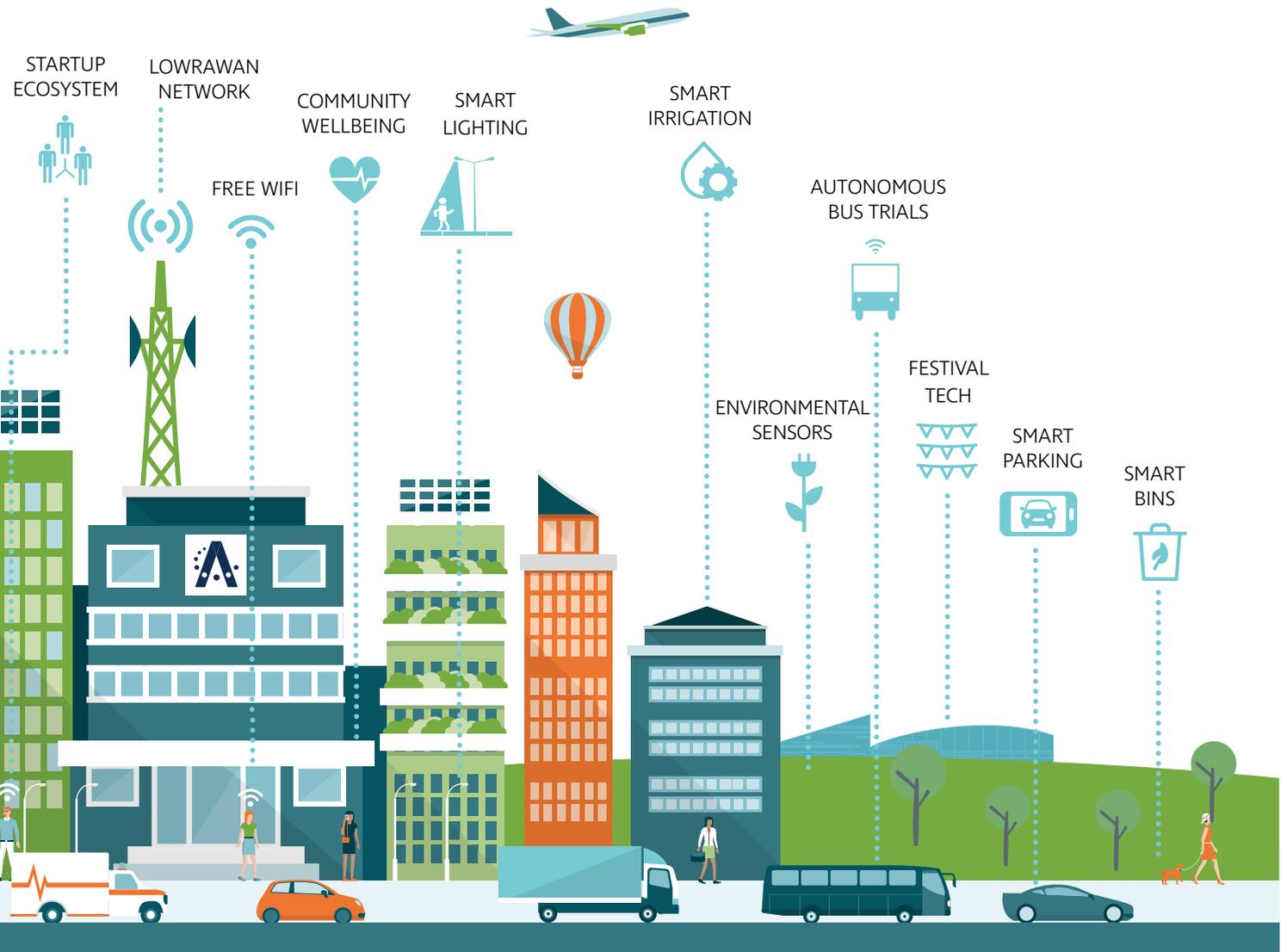
The city's award winning Economic Insights Dashboard offers enormous potential for improving decision-making, and brings together data from a variety of external sources and makes more than 53 city-held data sets accessible for public use.

## People Movement Analytics

Analysis of how people move through the city is helping inform operational and infrastructure decisions. Systems are now in place in several shopping precincts.

## Environmental Monitoring

The environmental sensors collect a range of information including CO<sub>2</sub>, NO<sub>2</sub>, methane, dust, pollen, sound and temperature, which is made available to the public via open data so that Government and Universities can create innovative solutions to improve the city experience.



"As a Cisco lighthouse city, Adelaide is one of the very few cities ready to develop and pilot new urban services and solutions to benefit the customer and citizen experience."

Dr. Anil Menon - Senior Vice President,  
Smart+Connected Communities, Cisco



"A smart city uses information and communications technology to enhance its liveability, workability and sustainability"

Smart Cities Council  
Washington State USA

Adelaide  
Smart City  
STUDIO

Smart City  
Accelerator

Ten Gigabit  
Adelaide

AdelaideFreeWiFi

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