

# Annual Report

2017/18



Centre for Appropriate  
Technology Limited



What's in a name?

# Who is CfAT?

Dear valued stakeholder,

We wish to advise that the Centre for Appropriate Technology Limited have rebranded to CfAT. Our wholly-owned, commercial subsidiary company previously known as CAT Projects has rebranded to Ekistica Pty Ltd.

CfAT has rebranded the company group to ensure there is a clear understanding that the Centre for Appropriate Technology Limited (CfAT) is not perceived to have a connection or affiliation with Caterpillar Incorporated, the well-known global corporation that trades widely under the name CAT.

We will work to ensure the change is effortless and we thank you for your understanding and ongoing support.

Please be advised that our website address is now [www.cfat.org.au](http://www.cfat.org.au) and our email domain now contains [@cfat.org.au](mailto:info@cfat.org.au) - our main contact information is now:

PO Box 8044  
Alice Springs NT 0871  
t: (08) 8959 6100  
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w: [www.cfat.org.au](http://www.cfat.org.au)



Centre for Appropriate  
Technology Limited

Please refresh your browser favourites and email address books accordingly.

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Centre for Appropriate  
Technology Limited



# Who we are

The Centre for Appropriate Technology Company Group comprises the Centre for Appropriate Technology Ltd (CfAT), an Aboriginal and Torres Strait Islander (ATSI) owned not-for-profit business and Ekistica (Pty Ltd), its wholly-owned commercial subsidiary.

CfAT Ltd is based in Alice Springs with a national focus, currently undertaking projects across Central and Northern Australia (WA, NT, Qld and SA). CfAT has a proven record of accomplishment of implementing highly successful partnerships and technology solutions with Aboriginal and Torres Strait Islander communities. Success is built upon effective Aboriginal community engagement and true collaboration in decision-making, planning, implementation and assessment. CfAT is also a Registered Training Organisation (RTO).

Ekistica is regional and remote Australia's leading advisory and technical consultancy firm providing advisory, engineering design and project delivery services. Clients include state and national governments, intergovernmental agencies, power utilities, community service organisations, and large commercial and private investment firms across a range of domestic and international markets.

The Company Group employs over 60 Staff and has a \$9m annual turnover.



## Meet the board



Grant Behrendorff

Grant is a professional engineering technologist specialising in renewable energy systems and energy efficiency program development and implementation. Grant spent several years as Group

Manager of CfAT's Bushlight renewable energy program from its inception in 2002. He has since lead projects in the energy sector in Australia, India, North America, and the Pacific Islands. Grant is currently the Director of Evolve Energy Pty Ltd, a Director of Energy Innovations Pty Ltd, and is based in Cairns, Queensland. Grant stepped down from his role as a member of the CfAT Board of Directors on 31 December 2017.



Frank Curtis

A local Arrernte man, Frank Curtis served the people of central Australia for a period of twenty years in his role as an Aboriginal Community Police Officer, Frank is currently in the process of developing a Youth

rehabilitation camp at Umbussa Amurra outstation. Frank enjoys working with young people to build up their self-esteem and confidence. He strives to instill in these youth a vision that someday they will end up being leaders of their country. As a member of the CfAT Board, Frank is passionate about finding ways for Aboriginal people to return to country and live on their homelands.



Noel Hayes

Noel Hayes is a Kaytetye man from Ali Curung, central Australia. For ten years, he served as an ATSIC commissioner. He currently serves on the Barkly Shire Council in the NT. Noel has been involved in a

leadership capacity for a range of social programs and community justice initiatives. He brings strong expertise in working with government.



Jenny Kroker

Jenny is an Eastern Arrernte woman. Jenny has a practical background in cross-cultural education and uses this to nurture the organisational culture at CfAT. She has integrated Indigenous Knowledge into science

curriculum in schools. She is a strong advocate for women in technology.



Helen Martin

Helen Martin joined the CfAT Board in September 2017 as a Director. Helen is a local Arrernte woman and for the past 12 years co-owner of an eco-friendly tourism retreat 'Banu Banu' located off the coast of Nhulunbuy, East

Arnhem Land. Helen was a finalist in the Entrepreneur Category of the NT Telstra Women's Business Awards in 2015 and is the Chair of the Northern Territory Indigenous Tourism Advisory Council. As someone who has first-hand experience of growing a business from the grassroots level up, Helen is passionate about helping other Indigenous people start and operate their own businesses.

## Who we are

### Meet the board continued



#### Jonathan McLeod

Born in Darwin, Jonathan is of both Aboriginal and Torres Strait Islander descent and is currently engaged by the Northern Land Council as Manager, Regional Development. Based in Darwin he looks after a

regional office network in the Top End of the Northern Territory. Jonathan has worked within Indigenous Affairs for 25 plus years with both the Australian Government and the Land Council as a Commonwealth Statutory Authority. Travelling extensively throughout the Northern Territory he is passionate about supporting remote Aboriginal communities establish opportunities through education, employment, business development, land management, housing, health and sport.



#### Peter Renehan

Peter Renehan was born and raised in Alice Springs. He has been CfAT Chair since October 2010. He brings to CfAT strong community engagement skills and practical hands-on abilities. Peter's leadership underpins

the strength of the CfAT Board and their focus on achieving positive outcomes for Aboriginal and Torres Strait Islander people.



#### Dr Steve Rogers

Dr Steve Rogers commenced as the CEO of CfAT in January 2015. He has most recently been the Science and Industry leader at the Australian Institute of Marine Science in Perth. He has also been the CEO and

Managing Director of two Cooperative Research Centre's and Principal Research Scientist with CSIRO Land and Water. He is an experienced company director with a strong vision for CfAT as a national organisation delivering the technology innovation needed to stimulate economic development across remote Australia.



#### Brian Singleton

Brian Singleton is a Yirraganydji Rainforest Bama (People) whose people Ancestral Traditional Lands are from the Cairns region to Port Douglas. Brian works for the Great Barrier Reef Marine Park as an Indigenous

Community Compliance Liaison Officer. He brings more than 15 years' experience in engaging Traditional Owners and Indigenous Communities in Land and Sea Management. Brian is passionate about providing training and knowledge exchange to communities and Traditional Owners to manage their own sea and country.



#### Brian Stacey

Brian Stacey is an anthropologist by training and worked in the Australian Public Service for more than 30 years in Indigenous Affairs. He started in Alice Springs as a graduate clerk for the former Department of

Aboriginal Affairs in 1983 and worked with CfAT in helping Aboriginal people to return to their country. Ultimately Brian became a senior officer including the State Manager in the Northern Territory and a Division head responsible for Land for Indigenous people. Brian has left the Public Services and now works as a consultant.





Who we are

## The Chair's report

Financial stability has been the focus from senior management and has delivered us a close to even result which is a significant turnaround and one that many Aboriginal organisations would be dealing with Australia wide, would see as a good result. As funding arrangements are bedded down for Aboriginal organisations and change is always inevitable and uncertain, but CfAT have been able to overcome these obstacles through strong Governance and leadership from the Board.

It is always difficult to try and find a way through complex situations and maintain your focus on outcomes for Aboriginal people when financial instability is front and center in your thoughts. But we have been able to overcome this by being focused and diligent, while maintaining our credibility with people on the ground. Maintaining our brand and protecting that against international market forces was also a highlight of us being able to find ways to survive through trying times. We are becoming much stronger as a group.

Visitors and guests at our site and that of the Desert Knowledge Precinct highlights that CfAT is open for business. The reactions and response from external parties when visiting us and seeing our programs and projects show that are we highly innovative, we are responding to the need and we can find solutions to complex issues affecting people in remote areas. The expansion of our wholly owned subsidiary company Ekistica and telling that story is always a highlight for the Board, and their work in major infrastructure projects means that having engineers based in Alice Springs

doesn't impact on the quality of the work that they deliver. Ekistica is continually sourced for project management or engineering expertise all over Australia and internationally. Being grounded in remote Australia adds to the incredible impact, the outcomes and the results for this year.

Well done to Lyndon, Michael and all the team.

External groups are continually seeking space and back end support from our organization and are wanting to be a part of the knowledge precinct either at the Desert Peoples Centre or on our Heath Road site, which is a huge endorsement of the CfAT Board's vision in relocating our operations to a much larger footprint to allow for future expansion. Again, this highlights the broader view and vision that our Board members have maintained for many years and is now being supported by other organisations in Alice Springs and elsewhere. Negotiating the Batchelor Institute (BI) library receiving 11,000 items from the ABC for the remote learning centers came about from a visit of ABC Aboriginal staff, the YouTube video highlighting our ability to negotiate high level and complex arrangements with national bodies highlights our capabilities and these are being recognised from the Aboriginal Affairs Ministers office. That is something to be very proud of!

Partnerships with external parties and commercial companies such as the carbon farming training development, Lend Lease, MyPathway and others show that people are seeking out CfAT because our brand name is very strong, what we believe in

and our core values are something that others are wanting to be a part of. That this has stood the test of time and through uncertainty and changing focus from Governments and others, shows that those core values resonate with a much wider audience than just Central Australia.

Technical projects with innovative responses and finding ways of increasing Aboriginal employment outcomes means that the expansion of our remote offices and increasing work for CfAT, and maintaining our connection to supporting people living on country again shows that there will always be a need for technology and innovation solutions when working with people in isolated and very remote areas. The expansion of these technologies into the mainstream space shows that issues affecting Aboriginal people are not just specific to race, but says more about location and remoteness, and how services can be delivered better to remote areas needs a concerted effort from Governments and market creators, and an approach that is better coordinated and holistic would get much better results. CfAT has been leading that space by example, the more we can tell that story the better.

Training has been growing and expanding with good results out in very remote locations, and has been the back bone of our relevance to Aboriginal communities because we understand the need and what level is required for Aboriginal people in the training context. A big thank you goes out to the Training team and to our trainers particularly Warren Passmore who has been constantly out bush and hardly ever in town!



## Who we are

The Chair's report continued

Delivery of Community Development Programs (CDP) is a new space for CfAT and one that the Board deliberated about for some time as it was a new area of business for us. The leadership from the Board was strong and focused around us either being on the outside looking in and having no impact, or being an integral part of the process to again apply our understanding, structure and mechanisms that have been tried and tested over the years to help support people living on country. We are looking forward to working very closely with both MyPathway and the Urupuntja Aboriginal Corporation and finding ways to deliver employment, project and infrastructure outcomes for local residents. In addition, we plan to provide support around corporate governance processes in conjunction with Urupuntja who are very keen to reestablish their ability to deliver and maintain programs again in their own region.

As a tri-party consortium, we are hoping that we can achieve high level outcomes and support for local governance arrangements as well over the next 12 months.

I would like to thank our members and Board for their vision and leadership coupled with that the support and guidance of the senior management, to getting us through another year of highlights.

Peter Renehan



## The CEO's report

The 2017-18 financial year was a period of marked improvement in our financial bottom line and the realisation of new exciting business opportunities for the organisation, whilst continuing to deliver on our core strategic goals, and support people in regional and remote Australia in the choices they make in order to maintain their relationship with country.

Our end of year financial result delivered a \$73,000 operating loss, primarily the result of cost overruns on two large commercial contracts. Whilst a loss is a loss, and we continue to work towards achieving an operating surplus, this result represents a \$290K improvement on our previous years' operating result, and the best end-of-year result for several years.

In February 2018 we spun-off a new commercial proprietary company, CFATMPJV Pty Ltd, a 50:50 owned joint venture between CfAT Ltd and the Cairns based company MyPathway. The company was awarded the 2018-2019 CDP contract for the NE Alice Region by the Commonwealth Government. We will be working closely with the local Urupuntja Aboriginal Corporation through an unincorporated joint venture agreement, to ensure local community input to the design and delivery of programs. The development of this exciting new venture builds on CfAT's long history of projects and engagement in the Utopia region, and is consistent with the CfAT strategy of developing separate commercial 'spin-off' companies to undertake fully commercial business, established over ten years ago with the launch of Ekistica Pty Ltd.

A further commercial opportunity was realized this year when CfAT was approached by Lend Lease, the Australian multinational construction, development and investment company to commercially partner and develop (and ultimately manufacture in Alice Springs) a suite of furniture for their large, urban, multi-use development projects. Working with local Alice Springs designer Elliat Rich, a suite of furniture has been designed and prototyped for initial roll out at the Darling Square redevelopment in Sydney. Commercial orders for fabrication will commence in the 2018-19 financial year. We have also recognised that there is a potential market for reasonably priced furniture, manufactured by CfAT in Central Australia. To this end we have established the ApMurra (Trade mark pending) furniture brand. ApMurra comes from the Central Australian Arrernte language Apmere mpwepele mpwaretyke (pronounced Ap-murra M-bop M-burra-ka) meaning made in the middle of the country.

CfAT achievements were recognized during year by the Commonwealth Government. The company was selected to be showcased in a 5-minute promotional video funded by Prime Minister and Cabinet, focusing on our technology solutions and Aboriginal employment successes, the YouTube video can be accessed from our website <http://cfat.org.au/>. In addition, CfAT Aboriginal Employment associated with the National Gallery of Victoria, *Victoria Amazonica* 'designer dome' installation project (See Strategic Goal 3 this report), and the Geoscience Australia Soil Sample processing project (see CfAT 2016-17 Annual Report) were highlighted in the Closing the Gap Prime Ministers Report 2018. CfAT was also



## Who we are

### The CEO's report continued

awarded \$1.4m in funding through the Commonwealth Indigenous Advancement Strategy program during the year to support delivery of our remote accredited training and Aboriginal workforce development programs.

CfAT staff were involved in a number of Digital Connectivity community engagement programs during the year, including eight remote communities receiving new mobile phone infrastructure through the NT Government-Telstra Blackspot program, and undertaking a Digital Inclusion survey on behalf of Telstra in Ali Curung. Our mobile phone Hotspot program now stands at 46 installations in the Northern Territory. Our first two extended range MKIII Hotspots were installed at the Neil Hargrave lookout site in mid July 2017 (the lookout, in the West MacDonnell ranges, is 100km from the Alice Springs mobile phone tower) and at the Taylor Creek Rest Area on the Stuart Highway (52Km South of the Ali Curung mobile phone tower), demonstrating a significant increase in the distance we can extend mobile phone coverage from earlier versions. Commercial opportunities for the hotspot technology have been identified through a third party independent business development consultancy in other States and Territories in Australia, which we continue to pursue.

We logged calls utilising our Hotspot at Yuelamu, an Aboriginal community of approximately 300 people located 300km northwest of Alice Springs, where calls averaged 76 a day, demonstrating significant community adoption of the hotspot technology.

Infrastructure projects managed by CfAT including the Koongarra Homeland project in Kakadu and the establishment of the Tarntipi Bush camp, a cultural training enterprise run by Tiwi people on Bathurst Island have delivered outstanding outcomes this year, providing the infrastructure required by Aboriginal people to maintain and grow their relationship with country.

During the year CfAT maintained our Aboriginal workforce at over 50% of staff and we are committed to continuing to maximise opportunities for Aboriginal workers. During 2017-18 we employed a total of 33 Aboriginal workers in the CfAT Ltd Enterprise facilities management and fabrication workshop teams, many of whom received training both prior to working in the workshop and on-the-job skills accreditation. Our Aboriginal staff continue to deliver outstanding outcomes. Our Fabrication team constructed the *Victoria Amazonica* water lily metal dome installation, designed by the Humberto Campana brothers, world-renown Brazilian designers. Commissioned by the National Gallery of Victoria the installation was on display at the gallery from December 2017 to April 2018 as part of the NGV Triennial Exhibition. Our facilities management team secured additional commercial cleaning contracts during the year and delivered a six-figure operating surplus over the 12-month period.

Our training team (RTO) has continued to deliver job related accredited training to Aboriginal workers with 270 individuals receiving training this year. A highlight for training was receiving ASQA accreditation for the new Cert II course

(3 units of competency) in Aboriginal Carbon Farming, developed in partnership with the Aboriginal Carbon Fund. CfAT Ltd is the only RTO in the country that has this course on scope, and with the Aboriginal Carbon Fund we are receiving significant interest in course delivery.

In closing I would like to acknowledge the hard work and commitment of all the CfAT staff, our most important asset. None of the achievements this year would be possible without our dedicated workforce. I would also like to thank our company members, business partners and Directors of CfAT Ltd for their ongoing support and belief in CfAT.

Dr Steve Rogers

## Why we exist

## Our Vision

## Our Mission

CfAT Ltd exists to support people in regional and remote Australia in the choices they make in order to maintain their relationship with country.

Maintaining a relationship with country may include a desire to live on country, visit country, develop country for economic benefit or protect country.

We achieve this by providing solutions to infrastructure challenges that people face in maintaining their relationship with country, primarily: reliable power, water supply, digital connectivity, built infrastructure, training and skills development.

Sustainable and enterprising communities of Aboriginal and Torres Strait Islander people underpinned by appropriate 'fit for purpose' technology

Through our unique knowledge of and engagement with remote people and place, we will deliver practical, integrated project design, technical innovation, training and infrastructure products and services – supporting livelihoods and growth in economic opportunities across remote areas

## Why we exist

# Our Capabilities

**Design construction and project management:** residential, commercial, public/community buildings

**Infrastructure design and development:** remote small business enterprise infrastructure (i.e. remote tourist camps), establishment of community housing programs, remote homeland planning and establishment

**Digital connectivity:** survey and installation CfAT unpowered mobile Hotspot and generic powered mobile Hotspot, point-to-point WiFi

**IT Services:** Full IT service provision, server hardware hosting

**Facilities management:** Full lifecycle - building, infrastructure and grounds maintenance

**Metal fabrication, design and engineering:** High-end designer furniture (in partnership with specialist designers), bush-hardy products, and structural steelwork

**Small scale (off-grid) remote power supply:** procurement and project manage installation of small 'off grid' solar (PV) systems, installation of 12V PV power supply to 'off grid' campgrounds.

**Registered Training Organisation:** Accredited training; automotive, rural operations, engineering/welding, construction/plant operations. Design of tailored training programs to meet client requirements.

**Healthy Country Planning:** Tailored, participatory planning on country, development of strategic plans for managing traditional homelands

Technology innovation and application

Aboriginal and Torres Strait Islander enterprise and jobs

Applied project design, management and professional services

Infrastructure design

Community engagement, planning and facilitation

Engineering and metal fabrication

Place based accredited training, skills development and capacity building

Facilities management



# What we do

1

Transition to a successful enterprise based not-for-profit business

## Our Strategies

Our Strategic Plan sets out four Goals

2

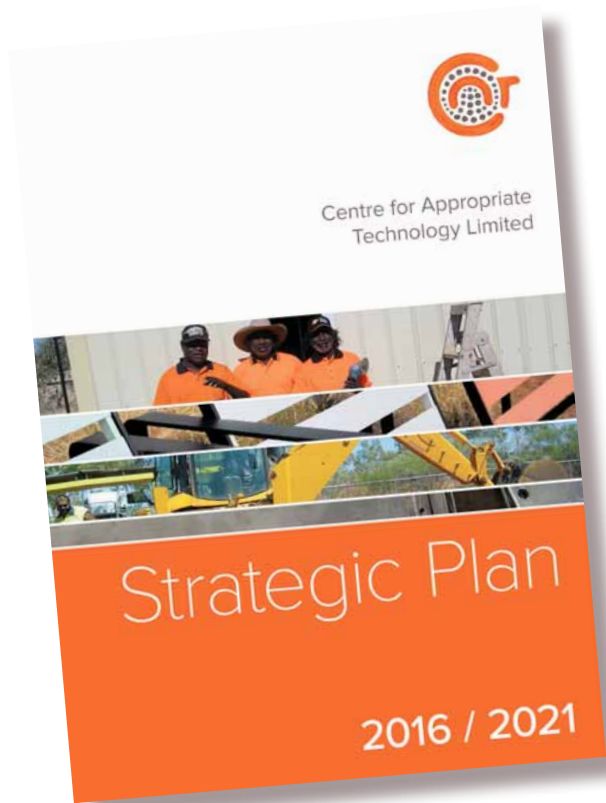
Further establish CfAT as a remote technology innovation leader

3

Maximising Aboriginal and Torres Strait Islander employment

4

Building training and skills development outcomes



Partnership with Lend Lease – designer furniture for major urban projects



On the strength of our reputation established through the fabrication of the 'Pool Chair' featured in the Australia Pavilion at the 2016 Venice Architectural Biennale. CfAT were approached by Lend Lease, the Australian multinational construction, development and investment company to commercially partner and develop (and ultimately manufacture in Alice Springs) a suite of furniture for their large, urban, multi-use development projects.



The initial suite of furniture was designed by Alice Springs based designer Elliot Rich, for the Lend Lease Darling Square redevelopment in Sydney. Working with established manufacturers and industrial designers on the East coast, in December 2017 the CfAT Enterprise fabrication team completed a prototype of a chair, the 'Wren Chair' and are presently working on a table and stool prototype. Commercial orders for fabrication will commence in the 2018-19 financial year.

The commercial opportunity with Lend Lease presented a capacity challenge for our existing fabrication workshop located at the Desert Peoples Centre. To address this issue, the fabrication workshop was relocated to the much larger Frank Curtis facility located at the CfAT Heath Road site. The new facility will allow us to undertake larger fabrication projects and house new equipment, primarily a CNC Pipe Bender, purchased to automate elements of furniture manufacture.

What we do – achieving Strategic Goal

1

Transition to a successful enterprise based not-for-profit business

# CFATMPJV

Launch of joint venture subsidiary  
CFATMPJV Pty Ltd



During 2017 CfAT established a highly successful relationship with MyPathway delivering construction training to Commonwealth Government Community Development Program (CDP) participants in Arlparra (see 2016-17 CfAT Annual Report). Management of the two companies expressed a desire to work more closely together in delivering meaningful CDP programs, that truly benefit individuals and communities in remote areas.

To achieve this a proprietary company was established; CFATMPJV Pty Ltd, a 50:50 joint venture between CfAT Ltd and MyPathway. Our CEO Dr Steve Rogers and Chair Peter Renehan are Directors of the company, with Peter appointed Chair of the Board.

The company was awarded the 2018-2019 CDP contract for the NE Alice Region by the Commonwealth Government. The company will be working closely with the local Urapuntja Aboriginal Corporation through an unincorporated joint venture agreement, to ensure local community input to the design and delivery of programs.

The development of this exciting new venture builds on CfAT's long history of projects and engagement in the Utopia region, and is consistent with the CfAT strategy of developing separate commercial 'spin off' companies to undertake fully commercial business, established over ten years ago with the launch of Ekistica Pty Ltd.



Launch of CfAT furniture brand – ApMurra furniture



In a separate development to the Lend Lease partnership, we have recognised that there is a potential market for reasonably priced furniture, manufactured by CfAT in Central Australia. The vision for the *ApMurra* furniture brand is to work in collaboration with Indigenous and non-Indigenous Australian artists, designers, manufacturers, and retailers to produce unique and contemporary furniture. Initial design work has commenced with the first products due for release in 2018-19

The name *ApMurra* comes from the Central Australian Arrernte language *Apmere mpwepele mpwarytyke* (pronounced Ap-murra M-bop M-burra-ka) meaning made in the middle of the country. A competition was run to design a logo for the brand. The design submitted by Sheena Ong, an Engineer with Ekistica Pty Ltd, was selected as the winner.



We have applied for trade mark protection for the brand name and logo.

What we do – achieving Strategic Goal

1

Transition to a successful enterprise based not-for-profit business

CfAT successes highlighted by Prime Minister and Cabinet Indigenous Procurement Policy review and Closing the Gap Prime Minister's report 2018



During the year CfAT took part in a survey commissioned by Prime Minister and Cabinet (PM&C) evaluating the impact of the Commonwealth Governments Indigenous Procurement Policy. CfAT has been awarded 6 contracts through the IPP valued at \$1,115,509. As a result, the company was selected to be showcased in a 5-minute promotional video funded by PM&C, focussing on our technology solutions and Aboriginal employment successes. The YouTube video can be accessed via our website:

[www.cfat.org.au](http://www.cfat.org.au)



In addition CfAT Aboriginal Employment associated with the National Gallery of Victoria, *Victoria Amazonica* 'designer dome' installation project (see Strategic Goal 3 on page 30), and the Geoscience Australia soil sample processing project (see CfAT 2016-17 Annual Report) were highlighted in the Closing the Gap Prime Ministers report 2018:

<https://closingthegap.pmc.gov.au/sites/default/files/ctg-report-2018.pdf>

### Commercial services provision Facilities Management team, IT service and asset utilisation

Our Facilities Management and IT team have continued to secure further external commercial contracts during the year. In addition to ongoing work, our Facilities team secured a contract with Batchelor Institute, providing cleaning services to their Desert Peoples Centre facilities. Our contract with Geoscience Australia to provide full facility management services to the Heath Road satellite ground station was also extended beyond 30 June 2018. The Facilities Management business delivered a \$271K operating surplus for the full financial year. Our IT team secured additional contracts during

the year bringing their contract income to \$127K for the 12-month period.

Monetisation of our land and built assets at Heath Road continues to be a strategic business goal for the company. An additional tenant, Bush Mob was secured during the year, renting land for their horses used in their Youth rehabilitation programs, and office space. We have also been in negotiation with the NT Government regarding an alternative use for the Life Skills camp, with discussions on going.





Trade mark CfAT name, acronym and corporate logo

As the number of commercial opportunities and products developed by CfAT increases, it becomes important to legally protect our company name, logo etc. from inappropriate use by third parties. To achieve this CfAT applied to IP Australia for Trade mark protection for our Company Name, acronym (CfAT) and Corporate Logo. Trade mark protection has been granted and details of our Trade mark can be viewed at <https://search.ipaustralia.gov.au/trademarks>

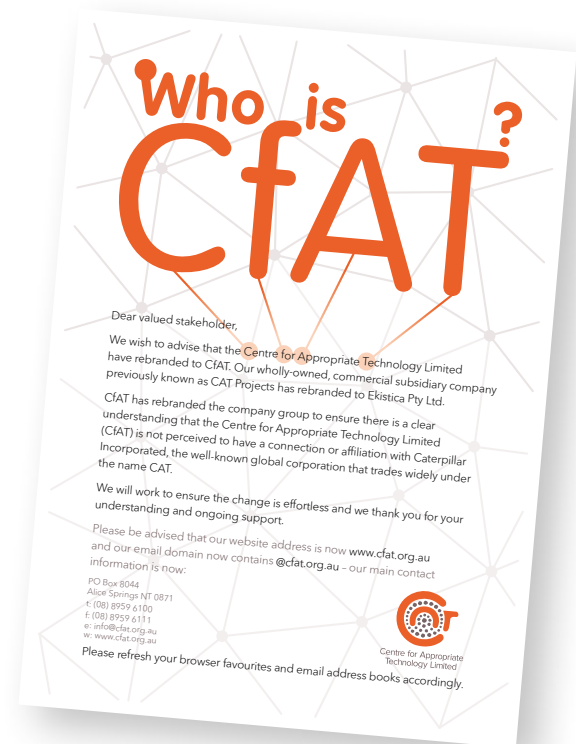
#### CAT to CfAT

During the year Centre for Appropriate Technology Limited has changed its acronym from CAT to CfAT.

The acronym CAT and the use of CAT in written documentation, our URL, email address etc is no longer permitted by legal agreement. In addition, our wholly-owned commercial subsidiary company previously known as CAT Projects has rebranded to Ekistica Pty Ltd.

CfAT has made this change to ensure there is a clear understanding that the Centre for Appropriate Technology Limited (CfAT) is not in any way connected or affiliated with Caterpillar Incorporated, the well-known global corporation that trades widely under the name CAT.

Our website address is now [www.cfat.org.au](http://www.cfat.org.au) and our email addresses all now contain the domain [@cfat.org.au](mailto:@cfat.org.au). Please refresh your browser favourites and email address books accordingly.



Centre for Appropriate Technology Limited

## Mobile phone Hotspots

CfAT has completed 46 Hotspot installations (all in the Northern Territory). Of this, 21 Hotspots have been installed at public locations, primarily at key tourist locations and roadside stops along the main highways in Central Australia and the Top End. A copy of the public Hotspot location map can be accessed via our Facebook page (Centre for Appropriate Technology). Or alternatively via Google maps at: [https://drive.google.com/open?id=1YGSsOpNnl\\_37HzrygGJK-wHMru\\_fGlgj&usp=sharing](https://drive.google.com/open?id=1YGSsOpNnl_37HzrygGJK-wHMru_fGlgj&usp=sharing)

The remaining 25 Hotspots have been installed at remote Indigenous communities across the NT for the benefit of people living in the community. An example of community Hotspot use at Yuelamu, a community of approximately 300 people located 300Km northwest of Alice springs is summarised below. Data was gathered using our proprietary tracker device, that detects when a mobile phone makes contact with the mobile base station (tower) and the duration of the call. We have also made some estimates of the potential revenue to the mobile phone service provider.



### Hotspot profile – Yuelamu

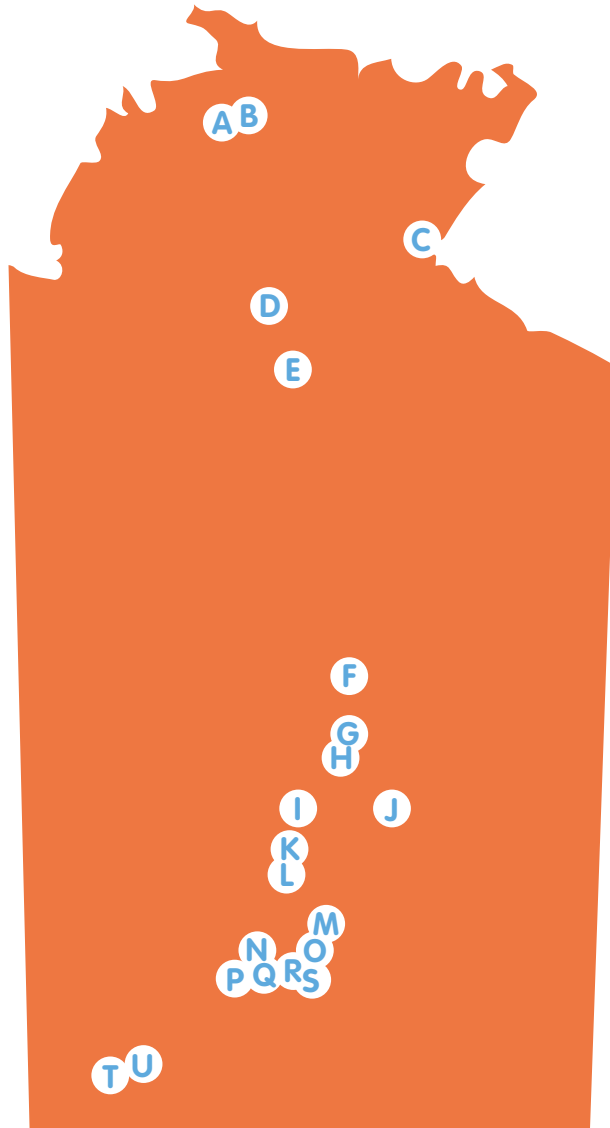
Hotspot call logging over 7 weeks (May-June 2018)

Hotspot location: near community store  
Hotspot in service since: 9 May 2016 (25 months)

Logging period: 48 days  
Calls (20 seconds or more): 3669  
Calls per day: 76  
Average duration: 127 seconds  
Estimated call revenue over logging period: \$1950 at 25c\* per minute

Estimated call revenue over service Period (25 months): \$29,000 at 25c\* per minute

\*Estimate only, as pre-paid cost is typically based on data volume rather than call duration.



Public Hotspot locations

- A** South Alligator River truck stop
- B** South Alligator River boat ramp
- C** Policeman's Crossong
- D** South Warloch
- E** Daly Waters North
- F** Gilbert Swamp truck bay
- G** Ali Curung turnoff
- H** Taylor Creek
- I** Stuart Memorial
- J** Utopia Clinic
- K** Prowse Gap
- L** Aileron village
- M** Tropic of Capricorn
- N** Neil Hargraves lookout
- O** Simpson's Gap
- P** Palm Valley
- Q** Old Station / Boggy Hole track
- R** Old Owen Springs
- S** Mt Polhill
- T** Kata Tjuta view
- U** Yulara East





### CfAT Mark III mobile Hotspot

The first customer installation 'extended range' CfAT MK III Mobile Hotspot was successfully installed at the Neil Hargrave lookout site in mid July 2017. The lookout is situated on Namatjira Drive in the West MacDonnell ranges, 100km west of Alice Springs between Serpentine Gorge and the Ochre Pits. While mobile signals normally require line-of-sight communications, this hotspot uses signals reflected from the nearby ranges to communicate effectively back to the Alice Springs towers. The lookout is a popular stopping point for tourists travelling the recently sealed Inner Mereenie Loop road. Apart from Hermannsburg, this is currently the only location on the 300km Loop road that offers mobile phone access.

A second MKIII Hotspot installation was completed in November 2017 at the Taylor Creek Rest Area on the Stuart Highway 52Km South of the Ali Curung mobile radio base station.

Both MKIII hotspots were fabricated and installed by our Aboriginal Fabrication Enterprise employees.



### Business development

During the year an external consultant was engaged to assess the market opportunities for the Hotspot technology outside of the Northern Territory. Partial funding for the project was provided by Indigenous Business Australia. Focussing primarily on potential markets in Western Australia, Queensland and South Australia the report concluded:

- There is clear interest in the CfAT Mobile Phone Hotspot (Hotspot) in Western Australia, South Australia and Queensland.
- Despite the dollars spent by Australian and State Governments on Black Spot funding programs there are still sufficient gaps in the mobile coverage on major highways and tourist routes to generate product demand. This is borne out by examination of the National Black Spot Database.
- Feedback from stakeholders bears out desktop research done by CfAT which shows a very high number of potential sites in the WA and Queensland as well as a relatively smaller number in SA.
- It is reasonable to assume that similar interest will exist in Hotspots in western New South Wales, Victorian national parks and remote Tasmania.

We will continue to pursue these opportunities.

Given their remote locations initial concern was expressed regarding the possibility of vandalism or damage to Hotspot installations. CfAT conducts regular surveys of Hotspots for any damage as part of our contract with the Northern Territory Government. Original installations date back to July 2015 and as of mid-2018, with only a couple of minor exceptions there has been no damage malicious or otherwise to the installations.

### Commercial arrangements

CfAT is now able to offer a number of commercial arrangements to potential Hotspot customers, these include:

- Turnkey purchase: CfAT provides full service from initial survey to fabrication and installation.
- Leasing to Indigenous customers through IBA: Lease financing is available for hotspot installation to indigenous corporations and communities, and businesses that service Indigenous communities through the Indigenous Business Australia leasing program. See [www.iba.gov.au/lease](http://www.iba.gov.au/lease)
- Licensing arrangement: CfAT has developed a template license agreement, to enable licensing the technology to third parties. Typically, this would involve payment of a Royalty Fee to CfAT on each installation or group, with the customer undertaking fabrication, and installation using their own or local resources. Contact CfAT for more details.
- JV Partnerships: CfAT is keen to discuss with interested party's opportunities to market or install Hotspots through joint venture arrangements.

## Community engagement for Telstra – NT Government co-investment program

The NT Government is co-investing with Telstra Corporation through the mobile phone blackspot program to jointly fund and install new mobile phone towers in a further 12 remote Aboriginal communities in Central Australia and the Top End.

CfAT was contracted by the NT Government to engage with the members of the target communities to inform them of the proposals, and to answer any questions and help address any concerns they may have. While many have welcomed new mobile coverage in their community, cyber-bullying has occurred in some communities after coverage has been introduced. Also, residents do not have a clear picture of what they are getting for the money they spend on their mobile phones, and benefit from being better informed on the content of their pre-paid plans.

Findings from the 8 communities visited so far; Titjikala, Manyallaluk, Kaltukatjara (Dockers River), Umbakumba, Bulman/Weemol, Minyerri, Yarralin and Atitjere (Harts Range) has confirmed that residents overwhelmingly looked forward to obtaining the new coverage, but some were quite apprehensive, and appreciated the greater level of discussion within the community about costs, and strategies to prepare themselves to address cyber problems when they arise.



## Telstra digital inclusion survey Ali Curung

The Australian Digital Inclusion Index, based on a survey questionnaire with individuals was first published in 2016, and provides the most comprehensive picture of Australia's online participation to date. The Index was created to measure the level of digital inclusion across the Australian population and to monitor this level over time.

Although comprehensive, the Index has limitations. In some socio-demographic segments the sample size is too small to provide useful comment. In others, Index data represents outcomes for only a distinct subset of a wider community. To address these data gaps, in 2018, Telstra, RMIT University and Roy Morgan Research approached CfAT to undertake additional research into digital inclusion in the form of a targeted digital inclusion survey, to be undertaken in a single large Aboriginal community (one of the 73 larger NT Aboriginal communities) where there has been connectivity (mobile phone) for some time.

Ali Curung was selected as the target community following discussion with Noel Hayes local resident, Barkly Regional Council Deputy Mayor and CfAT Director. The Roy Morgan survey comprises a standard set of 20 questions that cannot be modified, and is undertaken electronically on-line.

The CfAT team, assisted by Noel and local assistants engaged by CfAT spent 3 full days on community undertaking surveys with residents. Successful completion of 116 individual surveys exceeded expectations. Each survey took between 15-20 minutes to complete. All participants were provided with a Telstra pre-paid mobile phone voucher.

Outcomes of the survey will be released in late 2018.





## Koongarra homeland project



Construction of the main residence has been the focus of the Koongarra project this year. As previously reported, the project funded by the Australian Government Department of Prime Minister and Cabinet, aims to establish a small homeland on the ex Koongarra Lease within the boundaries of Kakadu National Park. Managed by CfAT Ltd and co-designed by CfAT Ltd and the Traditional Owner Jeffrey Lee.

CfAT went to public tender for the construction and engaged Big River Housing Pty Ltd, a Katherine based remote area construction and maintenance company with significant experience in remote housing development. CfAT also engaged Darwin based design company The Red Shed to finalise structural plans and construction drawings.

Due to the protracted and intense 2017-18 Top End wet season very little activity occurred on site until April 2018. During this period house design was finalised and engineering approval obtained. Representatives of CfAT, Parks Australia, Big River Housing, Prime Minister and Cabinet and Jeffrey Lee, met on site in April 2018 for a site induction and a 'get to know you' session, prior to construction beginning in May.

At the time of reporting the exterior house construction was completed (see image) and internal fit out had commenced. Handover to Jeffrey Lee is expected in late September/early October 2018.

As the Koongarra homeland site lies in a zone of marginal mobile phone reception. To provide reliable mobile phone

network access CfAT installed one of its mobile phone Hotspots at the campground site. This installation was funded as part of the NT Government Department of Corporate and Information Services, Northern Territory mobile phone hotspot program.

Remaining works include completion of a permanent access track following cessation of heavy equipment entry during construction phase, installation and connection of shower block, fencing and toilet block at the campground. Due for completion October 2018.



Assisting Indigenous remote businesses infrastructure needs

We are seeing an increasing focus and opportunity in the Aboriginal enterprise development sector. For instance, the cultural Tourism sector - Kakadu Billabong, Jabalbina Aboriginal Corporation QLD project, Kathleen Buzzacott toilet project and Tarrtupi Cultural Camp, Bathurst Island. This is an emerging market, with 4 projects in the last 12 months.



## Case study: Construction Tarntipi Bush Camp, Bathurst Island

Over the last two years our Darwin team was worked with the Tiwi people on Bathurst Island, to develop a unique cultural training enterprise run by the local community. Operated as a business, details are available at: [www.tarntipi.com](http://www.tarntipi.com)



The Tarntipi Bush Camp is a site 15 km, out of the main township. CfAT partnered with the local community to successfully negotiate the many challenges of creating appropriate facilities in such a location. CfATs role was to project manage, assist in the design, manage the procurement and logistics process, and on-ground works.

Infrastructure installed includes; a solar system to provide power to surface pump for fresh water extraction, 1.2km of underground water pipe from water source to camp, 1.5m tank

stand and 5000L water tank, community water reticulation to showers and taps, 2 x outdoor shower stalls, and 2 CfAT designed drop toilets. CfAT worked with local housing group (BIHA) which provided for 10 days of aboriginal employment through the excavation of the 1.2km water line trench, bush clearing for water line and camp ground, and pouring of concrete slabs for the water tank stand and the toilet blocks.

Groups are already accessing the camp site and the cultural awareness training which is part of the experience.



Teddy Portaminni (at left), Tiwi elder and visionary for leading this project, says:

“This business is important because I want to do things the right way. Our people have been displaced from their traditional lands on the Tiwi islands due to the history of colonisation. Many people are now returning to their traditional lands but aren't doing it the right way. I want this business – ‘Tarntipi Bush Camp’ to set an example and be a good model for business and cultural development in remote settings across the NT. This will contribute to shaping the future for our young people who can then be strong contributors to the broader Australian community.”



## Merepah/Moompa-awu Healthy Country planning

The purchase of Merepah Station in the late 1980s was a significant and historical indigenous land rights victory in QLD. CfAT has been proud to work with the Traditional Owners of this property to assist with their vision of finally having the land fully returned to their ownership and management. This project, supported by the Indigenous Land Corporation with in-kind support from Bush Heritage Australia, was an in-depth

participatory planning project to bring together the Traditional Owners (Wik Iiyenyi/ Mungkanhu people) of Merepah Station on Cape York to create a shared vision and plan for looking after, land, culture and business on their traditional homelands. A strategic Healthy Country plan – an ‘Appropriate Technology’ being adopted by many traditional owner groups and Ranger programs around Australia was delivered.

Held over 2 years, CfAT facilitated on country planning meetings to build the plan in the words of the Traditional Owners. The aim



of this plan is to chart a course to economic development, land management and divestment of the Merepah Station which is currently held by ILC.

The project culminated in a huge on Country Culture camp and planning workshop in September 2017, the largest of many planning workshops.

The process facilitated the formation of the Moompa-awu Aboriginal Corporation (MAAC) to represent the interests of Traditional Owners and significant funding for key strategies in the plan has been secured by MAAC, with income streams and funding for the operations of the Corporation are in final stages of negotiation. In addition, commitments have been secured for significant investment in capacity building and jobs for the Corporation, including a cattle business, Carbon Farming and land management opportunities.



During the year CfAT maintained our Aboriginal workforce at over 50% of staff and we are committed to continuing to maximise opportunities for Aboriginal workers. During 2017-18 we employed a total of 33 Aboriginal workers in the CfAT Ltd Enterprise facilities management and fabrication workshop teams, many of whom received training both prior to working in the workshop and on-the-job skills accreditation. We also supported two Aboriginal boiler-making apprentices. One of whom, Brentley Austin was awarded the "most outstanding First Year Apprentice" in Metal Fabrication at Charles Darwin University. Congratulations Brentley.



To support our maximising ATSI employment strategy, CfAT applied for a Tailored Assistance Employment grant, through the Commonwealth Indigenous Advancement Strategy program. We were awarded \$452K in funding over two and a half years to support our Aboriginal workforce development, mentoring and retention.

### *Victoria Amazonica* water lilly structural fabrication – National Gallery of Victoria

In early 2017, through Elliot Rich and James Young of Elbowshp in Alice Springs, CfAT Ltd was engaged to fabricate a large metal dome structure designed by the Humberto Campana brothers, world-renown Brazilian designers. Fabrication was completed at our Alice Springs workshop by our metal fabrication team, employing exclusively Aboriginal workers.

The top of the metal dome structure featured fabric panels that were hand-crafted by local Aboriginal women from the Yarrenytj Arltjere Art Centre in Alice Springs, these panels depict the significance of rain in the desert country. The embroidery tells a story of revitalisation and bush tucker that produces fruits for the animals and people after a long dry season.



The dome was commissioned by the National Gallery of Victoria and was on display at the gallery from December 2017 to April 2018 as part of the NGV Triennial Exhibition. The installation received significant media coverage.

The commissioning of this artwork further demonstrates the Territory's high quality design and fabrication skills, the success and competitiveness of a Territory based Aboriginal business enterprise (CfAT Ltd), and most importantly, the skills and commitment of our Aboriginal workforce.

We express our thanks to the Northern Territory Government, Department of Chief Ministers Office for providing financial support through the Community Grants Scheme for our Aboriginal trade assistants/apprentices to attend the opening of the Exhibition in Melbourne.



### Williams Well outstation repairs and maintenance

CfAT was contracted by the Central Land Council to make repairs at Williams Well, a small outstation east of Alice Springs. This project involved some modifications to the ablution block previously built by CfAT at Williams Well. CfAT former enterprise fabrication employee Aaron Burdett belongs to this community, and CfAT presented Aaron the opportunity to work on his family's outstation. The project involved CfAT enterprise workshop supplying and installing a chip heater, installing mesh under the ablution roof, strengthening the roof structure, installing solar HWS and commissioning a hybrid hot water system.





### University of Singapore solar array contract

The CfAT Enterprise Workshop completed a significant contract to install a solar array at the Desert Knowledge Precinct Solar Centre for the University of Singapore (via a sub-contract with Ekistica Pty Ltd). This project was valued at \$202,000 and was the largest project to date undertaken by the Workshop Crew in terms of contract value and complexity.

The engineering design and installation was project managed by our colleagues at Ekistica Pty Ltd.

The project involved fabrication of the steel support frames for the solar panels, physical installation of panels and erection of fencing around the facility.





### Parrtjima Festival lanterns

2017 was the second year of the Parrtjima 'festival of light' in Alice Springs, and the second year that CfAT has manufactured steel frames for their exhibits. CfAT manufactured giant skirt frames for hand-painted skirts, painted by local artists for the first festival and for the 2017 festival CfAT manufactured giant lamp shades that were covered in hand-painted pictures. CfAT has also been commissioned to make several steel frames for the 2018 festival.

CfAT as an Aboriginal fabrication workshop with a high level of fabrication skills, is becoming a supplier of choice for the Parrtjima festival for their fabricated metal structures, working in partnership with local artists to create unique pieces of exhibition artwork, that is attracting national and international visitors

Our collaboration with Parrtjima and its design team has deepened our understanding and ability to work closely with designers to create unique structures.





### CfAT Aboriginal staff professional development

CfAT is committed to the provision of training and professional development opportunities for our Aboriginal staff. During the year we provided training in Tractor Operations, Working at Heights and Elevated Work Platform to our Enterprise fabrication workshop, and Enterprise facilities maintenance teams. Our staff were joined by employees from our subsidiary Ekistica Pty Ltd for some of these courses.



During the reporting period CfAT was awarded three years funding (\$960K) through the Commonwealth Governments Indigenous Advancement Strategy, Children and Schools program. The funding is to support Indigenous job-related accredited VET training in remote communities, and is the continuation of previous funding secured in 2015.

Our training group had a busy year delivering the following accredited training courses (selected units of competency) in a number of remote communities:

Cert II Rural Operations,  
Cert I Automotive Vocational preparation,  
Cert I & II Construction,  
Cert II Construction Pathways,  
Cert II Engineering,  
Cert III Civil Construction Plant Operation,  
Cert II Remote Area Essential Services.

In total, training was provided to 270 participants.

Our clients included: Miwatj Employment, MacDonnell Regional Council, MyPathway, Jululikari Employment, Central Land Council, Roper Gulf Regional Council, Murray Downs Station, Barkly Regional Council, Kullaru



### Successful Aboriginal Carbon Farming accredited training course development

The Aboriginal Carbon Fund (AbCF) is a national not-for-profit organisation that is helping to build a stable Aboriginal carbon farming industry. AbCF contracted CfAT to partner with them in the development of an accredited carbon farming training course that provides people involved in Savanna burning activities with a greater understanding of how the carbon farming industry works. AbCF chose to work with CfAT because we are an Aboriginal Registered Training Organisation with a long history of delivering contextualised training in remote environments.

Accreditation of the course in Aboriginal Carbon Farming was achieved in May 2018. CfAT is the only RTO nationally that has this course on scope. The course consists of three units of competency at Certificate II, covering the planning and delivery of carbon farming projects, measurement and assessment of credits, and measurement/determination of the core benefits (social, cultural, economic) being delivered to communities through the carbon farming enterprise.

A pilot training program was delivered in Mapoon, Queensland to local ranger groups to trial the training and assessment materials, and to provide feedback for improvements before being delivered as an accredited course. Partnerships and relationships have been formed with key players within the carbon farming industry.



### Hosting and training delivery for the Motoscouts program

Motoscouts, is a joint venture between the NT Motor Trades Association and Scouts Australia.

The Motoscouts program is designed to provide at-risk, Indigenous and disadvantaged youth ages 15 to 24 years with an engaging, automotive skills-based program, coupled with

the Scouts Recreational Program, life skills that will increase their likelihood of obtaining and sustaining employment throughout their lives and decreasing the likelihood of incarceration and recidivism. CfAT has partnered with Motoscouts to host the Alice Springs based program in our Desert Peoples Centre Automotive Training Workshop, and deliver the Certificate I Automotive Vocation Preparation in both Alice Springs and Darwin. The CfAT facilities have also been used to create a driving track to allow the students to learn to drive in a quiet off-road setting;

Two programs have been successfully delivered in Alice Springs during the 2017-18 year with NT Correctional Services and at the Yirara College, and another two programs are planned for 2018-19 with a number of students graduating the program and finding employment following completion.

The program has been a successful collaboration between several organisations who have worked together to provide a holistic program that combines technical skills training, with activities aimed at building the life skills of the participants.





### Delivery of Civil Construction Plant Operations

The CfAT training team were contracted by MacDonnell Regional Council to deliver a training program to its community based municipal services staff which was specifically designed to increase skills in waste management and related plant operations.

CfAT and MacDonnell Regional Council developed a targeted training program that delivered key skills in waste management on community. The program delivers training to 13 communities over a period of 18 months.

The MacDonnell Regional Council staff are trained and assessed in waste management practices and in related plant operations so that they can more effectively manage waste and operate waste management machinery

The training program effectively combined units from two qualifications, Certificate II Rural Operations and Certificate III Civil Construction Plant Operations to achieve the targeted skills development outcomes.





# How we fare





## Ekistica Pty Ltd

### Company report for 2017-18

The 2017-18 financial year was a successful one for Ekistica, in which the company met or exceeded all of its ambitious growth targets. Over the year the company grew from 20 to 26 staff members, achieved full recertification for its ISO 9001 Quality Management System to 2015 standards, and delivered solid financial returns including growth in annual revenue of 32%, growth in EBIT of 24%, and the payment of a fully franked dividend of ~\$120,000 to Centre for Appropriate Technology Limited.

**Capability and capacity:** Ekistica provides advisory, design engineering and project delivery services for a wide range of clients that include state and national government agencies, utilities, commercial companies, private fund management firms, community organisations and multilateral development agencies and banks, working on projects across regional and remote Australia and the Asia-Pacific region. The significant growth of the team over the past few years has helped position the company well to further and more effectively deliver on its mandate to export knowledge from remote areas to other contexts, and constructively impact the world; and to expand the capability and capacity of regional and remote areas of Australia and the developing world, supported by a foundation of sustainable financial returns.



## How we fare

**Financial returns:** End of year results showed the company made a profit well in excess of its targets, allowing the payment of a fully franked dividend of \$120,000 to CfAT Ltd while also building internal cash reserves to support its forward growth targets.

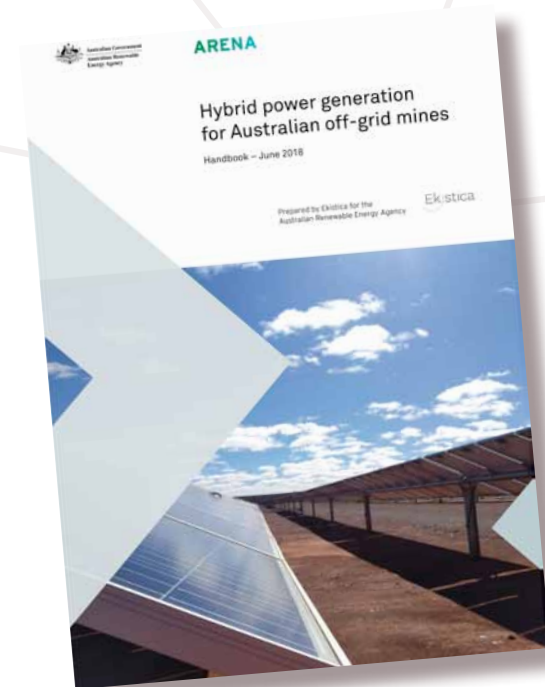
**Knowledge and impact:** Over the year, Ekistica continued to successfully deliver a range of projects in both established and new sectors, and initiated many more, with a full order book moving into the first half of 2018-19. Significant projects completed over the year include:

- Hybrid Power Generation for Australian Off-grid Mines Handbook. Prepared on behalf of the Australian Renewable Energy Agency (ARENA) the handbook is for mining and power industry professionals to better understand the opportunities and challenges to the economic and technical viability of hybrid power generation on remote mine-sites.
- High level support to Palisade Investment Partners for the development through to financial close of the 112MW Granville Harbour Wind Farm in North-West Tasmania; with subsequent ongoing project director, project manager, and project engineering services for the delivery of the project to Granville Harbour Operations.
- Technical advisory and design engineering services to Indigenous Business Australia (IBA) supporting its procurement and redevelopment of the Wilpeana Pound Resort power station in South Australia.
- Detailed feasibility and design for tender of a solar-PV-battery hybrid power supply upgrade for Bonya community on the Plenty Highway, NT.

- Provision of technical advisory and engineering services to S Kidman & Co Ltd relating to upgrades of existing power supply systems on various properties.
- Provision of technical advisory and engineering services relating to proposed or planned renewable energy investments at various regional airports in Queensland.

New and continuing projects over the year include:

- ARENA Knowledge Share Program. Delivery of ARENA's Knowledge Sharing and Data Handling program for both the Regional Australian Renewables and Large-Scale Solar programs.
- NT Government Remote Housing Program: project management services for the NT Remote Housing Program on behalf of the NTG Department of Infrastructure Planning and Logistics. Over 150 new builds/rebuilds/upgrades either delivered or in progress since September 2016 in nine remote indigenous communities across Central and Northern NT.
- Ross River Solar Farm. Project development and equity due diligence, owner's engineer and project management of one of the largest solar farms in Australia (148MW) in Townsville, Queensland.
- Community WiFi project. Project management services for the Department of Prime Minister and Cabinet supporting the upgrade of remote community phones to the Sky Muster network and provision of public WiFi hotspots in over 70 indigenous communities across remote Australia.
- Desert Knowledge Australia Solar Centre. Ongoing centre management and development of this innovative and highly regarded solar demonstration facility in Alice Springs, which this year reached its 10-year anniversary.



- ARENA and Clean Energy Finance Corporation advisory work. Strategic advisory and due diligence services on a range of projects seeking investment.
- Development and delivery of an NTG funded project establishing investment grade meteorological stations across the NT, and associated website for free, public-access data sets (under sub-contract to CfAT Ltd).
- Network Construction Advisor contract with the New Zealand Ministry of Foreign Affairs and Trade providing technical advisory services in support of various distribution line extensions in Papua New Guinea.
- Contract with Mutitjulu Community Aboriginal Corporation providing project management for the development of a new Mutitjulu Community Business Centre, and renovations to the community Recreation Hall and Adult Learning Centre, in partnership with Mutitjulu Foundation and Prime Minister and Cabinet.

For more information about Ekistica, please visit:

[www.ekistica.com.au](http://www.ekistica.com.au)



## Statement of profit or loss and other comprehensive income

	Consolidated		Parent	
	2018	2017	2018	2017
	\$	\$	\$	\$
Sales revenue	5,591,870	4,286,609	2,342,886	2,743,533
Other	3,433,000	4,048,230	2,847,193	2,705,726
<b>Total income</b>	<b>9,024,870</b>	<b>8,334,839</b>	<b>5,190,079</b>	<b>5,449,259</b>
Employee benefits expenses	5,036,948	4,914,658	2,555,030	3,118,613
Depreciation and amortisation expenses	334,475	308,666	269,055	283,784
Other expenses	3,330,107	3,150,596	2,439,810	2,411,857
Income tax expenses	150,872	128,225	-	-
<b>Total expenditure</b>	<b>8,852,402</b>	<b>8,502,145</b>	<b>5,263,895</b>	<b>5,814,254</b>
<b>Surplus/(deficit) for the year</b>	<b>172,468</b>	<b>(167,306)</b>	<b>(73,816)</b>	<b>(364,995)</b>

## Statement of financial position

	Consolidated		Parent	
	2018	2017	2018	2017
	\$	\$	\$	\$
Current assets cash, investments, receivables, other	5,984,665	6,303,888	3,952,058	4,541,271
Non current assets property, plant and equipment	10,639,229	10,554,758	10,400,166	10,547,568
Other assets	180,099	86,407	-	-
<b>Total assets</b>	<b>16,803,993</b>	<b>16,858,646</b>	<b>14,352,224</b>	<b>15,088,839</b>
Current liabilities creditors, accruals, provisions, other	2,784,644	3,239,356	1,546,788	2,212,054
Non current liabilities provision for long service leave	71,643	42,738	21,715	19,248
Other liabilities	220,281	108,002	-	-
<b>Total liabilities</b>	<b>3,076,568</b>	<b>3,390,096</b>	<b>1,568,503</b>	<b>2,231,302</b>
Net assets	<b>13,727,425</b>	<b>13,554,957</b>	<b>12,783,721</b>	<b>12,857,537</b>
Equity				
Accumulated funds	2,339,089	2,166,621	1,395,385	1,469,201
Reserves	11,388,336	11,388,336	11,388,336	11,388,336
<b>Total equity</b>	<b>13,727,425</b>	<b>13,554,957</b>	<b>12,783,721</b>	<b>12,857,537</b>

# Notes to the financial report

## 1 Basis of Preparation

The financial statements are general purpose financial statements that have been prepared in accordance with the Australian Accounting Standards and the *Australian Charities and Not-for-profits Commission Act 2012*.

## 2 Summary of Significant Accounting Policies

### (a) Income Tax

The Company is exempt from income tax under Division 50 of the Income Tax Assessment Act 1997.

The controlled entity is subject to income tax.

Current income tax expense charged to the profit or loss is the tax payable on taxable income calculated using applicable income tax rates enacted, or substantially enacted, as at the end of the reporting year. Current tax liabilities (assets) are therefore measured at the amounts expected to be paid to (recovered from) the relevant taxation authority.

### (b) Revenue and other income

Revenue is recognised when the amount of the revenue can be measured reliably, it is probable that economic benefits associated with the transaction will flow to the Group and specific criteria relating to the type of revenue as noted below, has been satisfied.

Revenue is measured at the fair value of the consideration received or receivable and is presented net of returns, discounts and rebates.

All revenue is stated net of the amount of goods and services tax (GST).

#### Sale of goods

Revenue is recognised on transfer of goods to the customer as this is deemed to be the point in time when risks and rewards are transferred and there is no longer any ownership or effective control over the goods.

#### Grant revenue

Grant revenue is recognised in the statement of profit or loss and other comprehensive income when the entity obtains

control of the grant, it is probable that the economic benefits gained from the grant will flow to the entity and the amount of the grant can be measured reliably.

When grant revenue is received whereby the entity incurs an obligation to deliver economic value directly back to the contributor, this is considered a reciprocal transaction and the grant revenue is recognised in the statement of financial position as a liability until the service has been delivered to the contributor, otherwise the grant is recognised as income on receipt.

Centre for Appropriate Technology Ltd and Controlled Entity receives non-reciprocal contributions of assets from the government and other parties for zero or a nominal value. These assets are recognised at fair value on the date of acquisition in the statement of financial position, with a corresponding amount of income recognised in the statement of profit or loss and other comprehensive income.

#### Interest revenue

Interest is recognised using the effective interest method.

#### Rendering of services

Revenue in relation to rendering of services is recognised depending on whether the outcome of the services can be estimated reliably. If the outcome can be estimated reliably then the stage of completion of the services is used to determine the appropriate level of revenue to be recognised in the period.

If the outcome cannot be reliably estimated then revenue is recognised to the extent of expenses recognised that are recoverable.

#### Other income

Other income is recognised on an accruals basis when the Group is entitled to it.

### (c) Goods and services tax (GST)

Revenue, expenses and assets are recognised net of the amount of goods and services tax (GST), except where the amount of GST incurred is not recoverable from the Australian Taxation Office (ATO).

Receivables and payable are stated inclusive of GST.

The net amount of GST recoverable from, or payable to, the ATO is included as part of receivables or payables in the statement of financial position.

Cash flows in the statement of cash flows are included on a gross basis and the GST component of cash flows arising from investing and financing activities which is recoverable from, or payable to, the taxation authority is classified as operating cash flows.

### (d) Property, plant and equipment

Each class of property, plant and equipment is carried at cost or fair value less, where applicable, any accumulated depreciation and impairment.

#### Depreciation

Property, plant and equipment, excluding freehold land, is depreciated on a straight-line basis over the assets useful life to the Group, commencing when the asset is ready for use.

### (e) Impairment of non-financial assets

At the end of each reporting period the Group determines whether there is an evidence of an impairment indicator for non-financial assets.

Where an indicator exists and regardless for goodwill, indefinite life intangible assets and intangible assets not yet available for use, the recoverable amount of the asset is estimated.

### (f) Cash and cash equivalents

Cash and cash equivalents comprises cash on hand, demand deposits and short-term investments which are readily convertible to known amounts of cash and which are subject to an insignificant risk of change in value.

### (g) Employee benefits

Provision is made for the Group's liability for employee benefits arising from services rendered by employees to the end of the reporting period. Employee benefits that are expected to be wholly settled within one year have been measured at the amounts expected to be paid when the liability is settled.



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