



Centre for Appropriate
Technology Limited

ANNUAL REPORT

2020-2021



CfAT is

CfAT Ltd supports 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

CfAT does

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 of 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

Renewable Energy: 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. Our wholly owned subsidiary for profit company Ekistica provides high end technical advisory and project management engineering services with a strong renewable energy focus specializing in solar and wind turbine technology solutions.

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

Community Engagement: Healthy Country Planning: Tailored, participatory planning on country, development of strategic/actions plans for managing traditional homelands. CfAT also provide advice and technical problem solving solutions within community planning contexts within training and workforce development to assist community sustainability.



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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 supply Nation registered business, Ekistica (Pty Ltd) and CfATSE (Pty Ltd), both of which are its wholly-owned commercial subsidiaries.

CfAT Ltd is based in Alice Springs with a national focus, currently undertaking projects across Central and Northern Australia (NT and QLD). 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). CfAT employs over 20 staff with 75% of these being Aboriginal employees.

Ekistica is regional and remote Australia's leading advisory and technical consultancy firm providing advisory, engineering design and project delivery services; the firm employs up to 28 engineers. Clients include state and national governments, government agencies, power utilities, community service organisations, and large commercial and private investment firms across a range of domestic and international markets.

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The Centre for Appropriate Technology Satellite Enterprises Pty Ltd (CfATSE) is Australia's first and only Aboriginal-owned-and-operated ground segment service provider. CfATSE manages a 38-hectare site on which it hosts satellite ground assets, and partners with service providers to support outcomes for Indigenous communities around Australia.

Meet the Board



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 still enjoys working with young people to build up their self-esteem and confidence and is utilised throughout Central Australia for his high level mentoring and motivational skills sets within the justice and mental health systems. He strives to instill in youth a vision that someday they will end up being leaders of their country. Frank assumed the role of Chairperson in August 2020 and as a member of the CfAT Board, Frank is passionate about finding ways for Aboriginal people to return to country and live and thrive on their homelands.



Noel Hayes

Noel Hayes is a Kaytetye man from Ali Curung, central Australia. For ten years, he was an ATSIC Commissioner. He currently serves on the Barkly Regional Council. 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 and local Government contexts and a thorough understanding of the challenges Aboriginal people face in the Northern Territory.



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 and has been a long time contributor to CfAT as an employee and a Board member.



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 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 was the CfAT Board Chair from October 2010 until January 2020 when he became CfAT's first Aboriginal Chief Executive Officer. Peter brings to CfAT strong community engagement skills and practical hands-on abilities, with a strong focus on Governance and leadership. Peter's strong leadership skills have successfully transitioned from the CfAT Board to the day to day running of the organisation along with his focus on achieving positive outcomes for Aboriginal and Torres Strait Islander people.



Brian Singleton

Brian Singleton is a Yirraganydji Rainforest Bama (People) man whose Ancestral Traditional Lands are from the Cairns region to Port Douglas. Brian has worked for many years within the Great Barrier Reef Marine Park as an Indigenous Community Compliance Liaison Officer. He has successfully transitioned into the local family corporation as the Senior Ranger of the Dawul Wuru Aboriginal Corporation.

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.



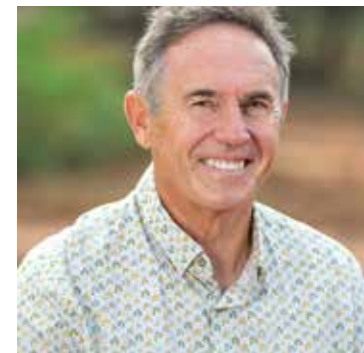
Brian Stacey

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 to support Aboriginal people to return to their country. Ultimately Brian became a senior officer including Territory Manager in the NT and a Division Head responsible for Land for Indigenous people. After leaving the Public Services he continued his career as a consultant. Brian left the CfAT Board in August 2020.



Deanella Mack

Deanella (Dee) Mack is an Arrernte woman born and raised in Alice Springs. After many years of working within Aboriginal organisations, NGO's and Government departments Dee went on to found her own business, Cultural Connections NT, in 2014, providing local cultural awareness training and cultural tourism at Angkerle Atwatye, Standley Chasm. She moved to Brisbane in November 2018 to take up a national position as Indigenous Cultural Capability Leader with Earnst and Young. Her role provides support to develop culturally safe workplace practices, increase staff cultural capability, and assist in implementing a culturally intelligent approach to working with and for Aboriginal and Torres Strait Islander people. Deanella is passionate about creating systemic change and cultural capability standards that enable the realisation of self-determination for Indigenous peoples, and breaking down barriers to enable others to better understand and interact with Aboriginal people.



Adrian Mitchell

Adrian Mitchell, born in Western Australia, commenced his career as an auditor and accountant before entering into the training sector with Midland College of TAFE in 1997. Adrian spent the next 20 years in senior management positions in the training sector in WA, NSW, NT and Qld, 13 years of which as a Chief Executive Officer including five years as the Director of Batchelor Institute of Indigenous Tertiary Education before retiring in 2017. He came out of retirement in 2019 to undertake a project position with Parkrun Australia to increase the participation of older Australians in Parkrun

CEO and Chairpersons Report

Welcome to the CfAT Ltd Annual Report!



Frank Curtis



Peter Renehan

CfAT still managed to do quite well in the 2020/21 financial year despite the impacts of Covid-19 and being unable to access remote communities, our traditional client base, for a considerable portion of the year. Pleasingly we also received a clean bill of health from IPS Management Consultants who undertook a Financial Critical Business Analysis on behalf of Indigenous Business Australia.

A key focus for the financial year was the consolidation of our wholly owned subsidiary Centre for Appropriate Technology Satellite Enterprises to ensure that Aboriginal people derive benefit and are at the forefront of the rapidly growing space industry. We would like to acknowledge the Northern Territory Government for supporting the development of a Site Master Plan to support the ongoing operation and expansion of our Ground Station. We are also working closely with our partners Viasat to maximise the benefit from our two 7.3m antenna and having Australia's and only Aboriginal owned and operated Ground Segment Service Provider (GSSP), with CSRIO coming on board as a user being one of the highlights of the year. Our vision sits succinctly within the Northern Territory Government's economic aspirations in the space industry

and our Ground Station and GSSP perfectly complement the Gumatj people in Arnhem Land's exciting launch facility, Equatorial Launch.

The Group's financial performance has stabilised after substantial losses from the parent company CfAT in proceeding years. This has been achieved through fiscal restraints and restructuring, plus being more efficient in our operational processes. Reducing spending across the organisation and staff being more flexible in their respective roles greatly assisted with this. Ekistica continues to make an exceptional contribution to the Group and the efforts of its management and staff are greatly appreciated. Most pleasingly while many organisations in Central Australia and nationally were forced to lay off staff because of the impacts of Covid-19, with distressing images of people being queued up at Centrelink offices, we took a stand to support and assist our staff and their families through this trying period.

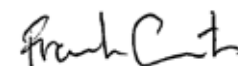
Training suffered quite badly through being unable to access remote communities and difficulties in recruiting trainers due to travel restrictions and an acute shortage of accommodation in Alice Springs. However, with a focus on recruiting local Aboriginal trainers and initiatives such as the Papunya Leadership Group Pilot Program that has a specific focus on supporting local people into local employment opportunities and subsequent workforce development the organisation is confident of re-growing its RTO to support Aboriginal people into employment. We are also committed to working closely with other local RTOs such as Civil Train and Batchelor Institute of Indigenous Tertiary Education to support each other's efforts for the betterment of Aboriginal learners and Central Australia.

During 2020/21 the Metal Fabrication Workshop has implemented a number of efficiencies and is developing clearer markets including providing high end products to companies such as Lend Lease and Koskela with a wonderful furniture range along with its traditional hardy stell products for remote communities. The Board is particularly proud that the workshop is supporting two Aboriginal apprentices who will be able to transition to careers in local

industry in future years. We have also benefited from working closely with Ross Engineering in what is hopefully a mutually beneficial arrangement. Searching for robust markets and longer term projects will further stabilise the Metal Fabrication workshop going forward realising the Board's vision of having a vibrant socioeconomic enterprise providing trade and other employment opportunities for Aboriginal people.

The North Queensland operations are ever increasing with significant impacts for those communities who have been working hard developing and implementing their Healthy Country Plans that show leadership in the protection and management of traditional country. As demonstrated later in this report Regional Manager Andre Grant has worked tirelessly for many years for CfAT and has made a considerable contribution to people choosing to return to their traditional lands.

Another challenging year for CfAT Ltd but one where we once again have been able to overcome severe internal as well as some very significant external shocks to continue to keep the organisation healthy, build on our 41 year history and the work of our predecessors and keeping our name out there while developing new and exciting partnerships. The focus remains, as we leave the stabilisation phase and move into a period of growth, will be on establishing and maintaining solid long term collaborations to ensure we are still here for the very long term to support remote Aboriginal Communities.

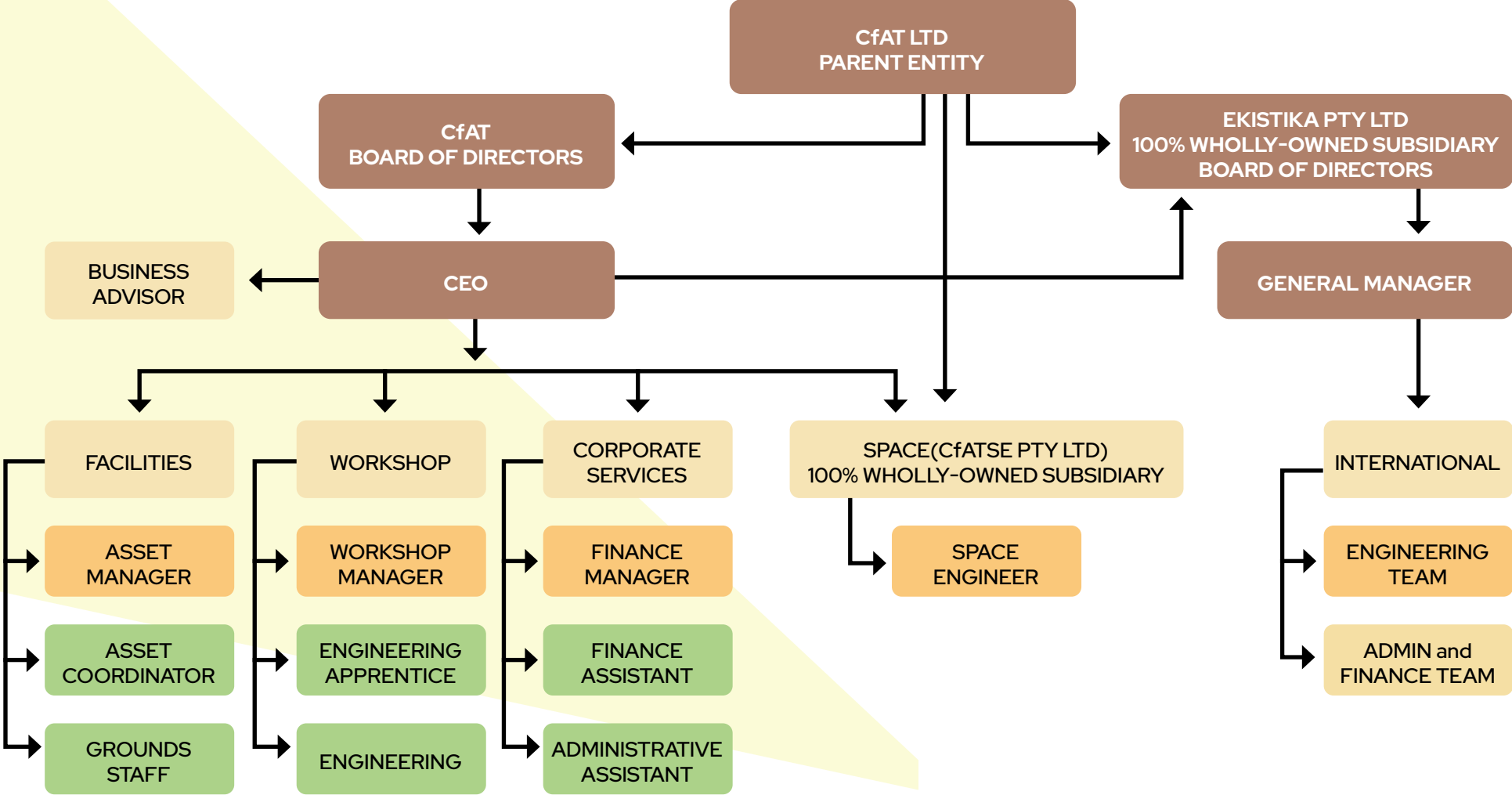


Frank Curtis
CfAT
Executive Chairman



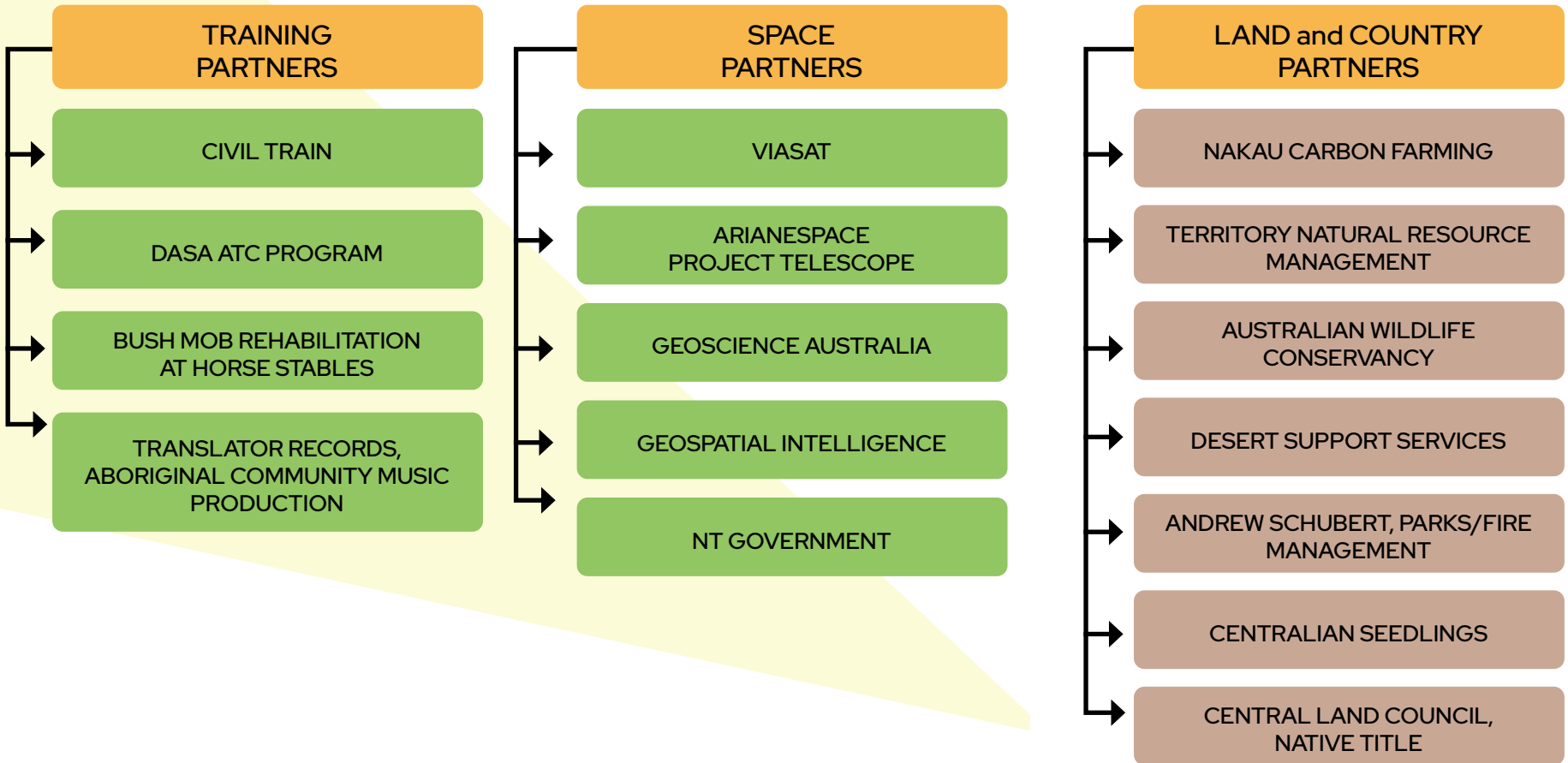
Peter Renehan
CfAT
Chief Executive Officer

Organisational Chart



CfAT Eco-system Map: Organisations Hosted at Heath Road Facility, CfAT Buildings at Desert Peoples Centre DKP

CfAT Eco-System Map: Organisations Hosted at Heath Road Facility, CfAT Buildings and Desert Knowledge Precinct



Key Statistics and Highlights: from CfAT



of Covid-19 lockdown restrictions meant that a number of our training programs and community engagement programs were delayed.

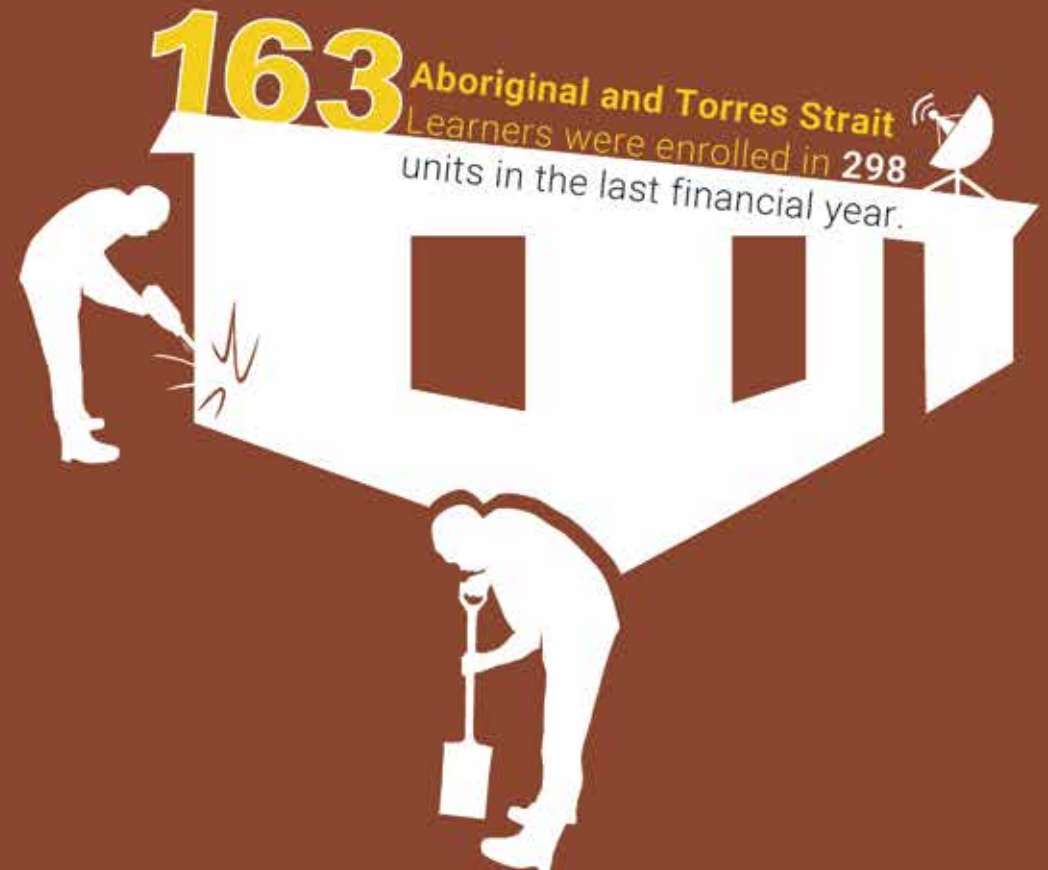


103 Metal framed camp beds were built, delivered and installed in remote communities, to assist with health efforts for aged indigenous peoples during the pandemic



CfAT won the Australian Water Association National Innovation Award for its Port Stewart Water Supply project, in partnership with Engineers Without Borders, Ekistica and ARUP in May 2021.

The project focused on design and build of a new cyclone proof water supply system for the Lama people (Yintjingga Aboriginal Corporation) at Port Stewart (Cape York).



163 Aboriginal and Torres Strait Learners were enrolled in 298 units in the last financial year.



Space Tech

3

Customers

are now engaged using CfATSE's downlink / uplink capabilities, including one that is using it to scan and remove debris from space.

70+

active energy and engineering projects



200+

housing developments, upgrades and new builds delivered across 18 COMMUNITIES



15 Partners

are now hosted at the Centre for Appropriate Technology Buildings located on the Desert Knowledge Precinct generating \$1M in rental income for the organization.

What We do? How We Do it? Impact of this?



Metal Workshop Team Traction

Bush Bed Production with Northern Land Council

CfAT's Metal Fabrication Workshop has been manufacturing 160 Bush Beds with the Central Land Council (CLC) as well as 40 Beds for the NLC and smaller amounts with partners such as Purple House for their Dialysis clients, and other communities. The project value was significant to assist with a Covid-19 stimulus rollout program. In terms of specifications, the bed is made with 25 NB standard galvanized pipe. These beds are specially designed for Aboriginal people living in remote areas. The all-steel beds are fabricated to withstand high-use, high-impact and external environment conditions. This activity result included an increase of apprentices, with these two major job-orders being completed with the help of four Aboriginal Apprentices that worked on cutting, bending and welding activities.

Impact: Central land Council and the Northern Land Council and Purple House expressed positive feedback in terms of the beds being robust and of good quality in nature to withstand the conditions and the context they are needed for. They have also expressed satisfaction with the In-time delivery. The Aboriginal Apprentices learned how to make beds using a specialized NC bend machine, but also worked hard in creating better efficiencies in timelines and cost reductions through instilling robust back end systems after working closely with and gaining key strategic and financial system advice and support from Lend Lease and other stakeholders.



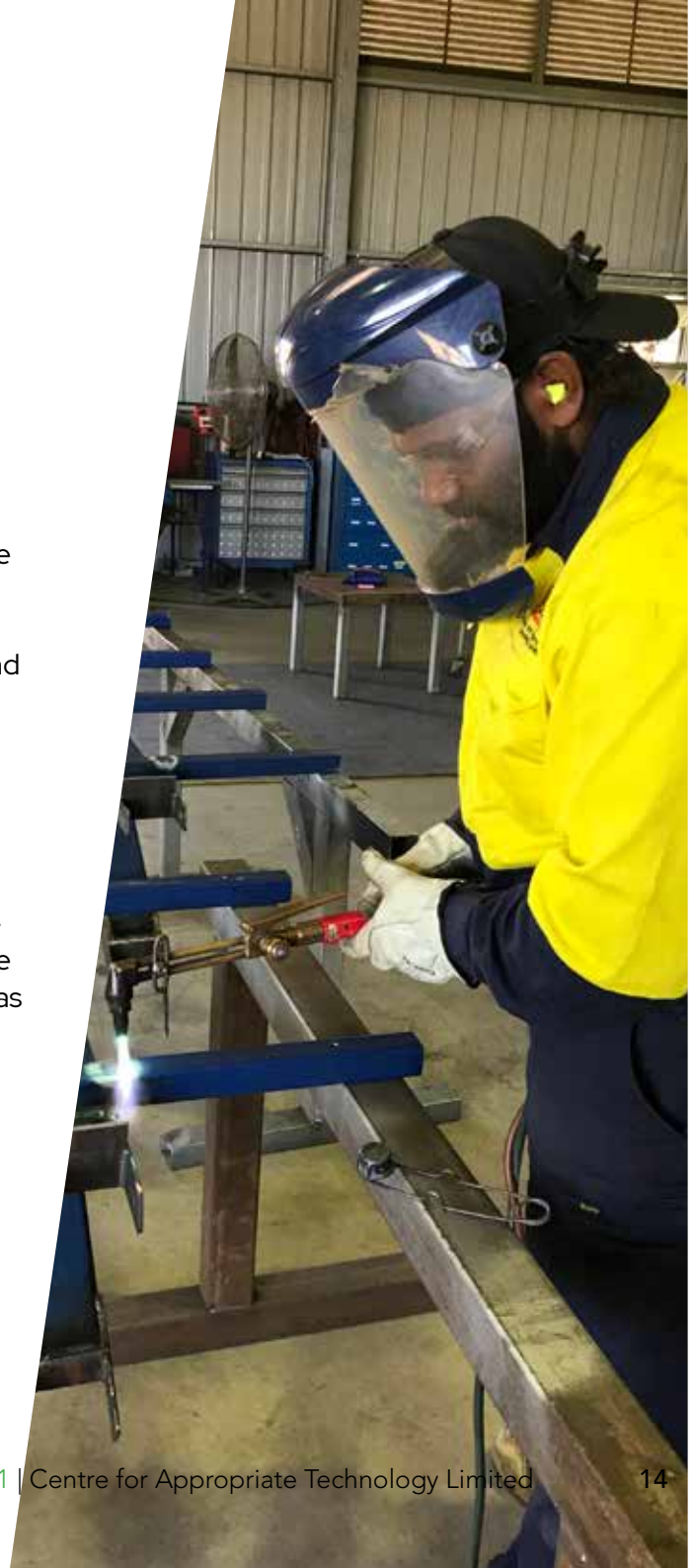
WHAT WE DO? HOW WE DO IT? IMPACT OF THIS?

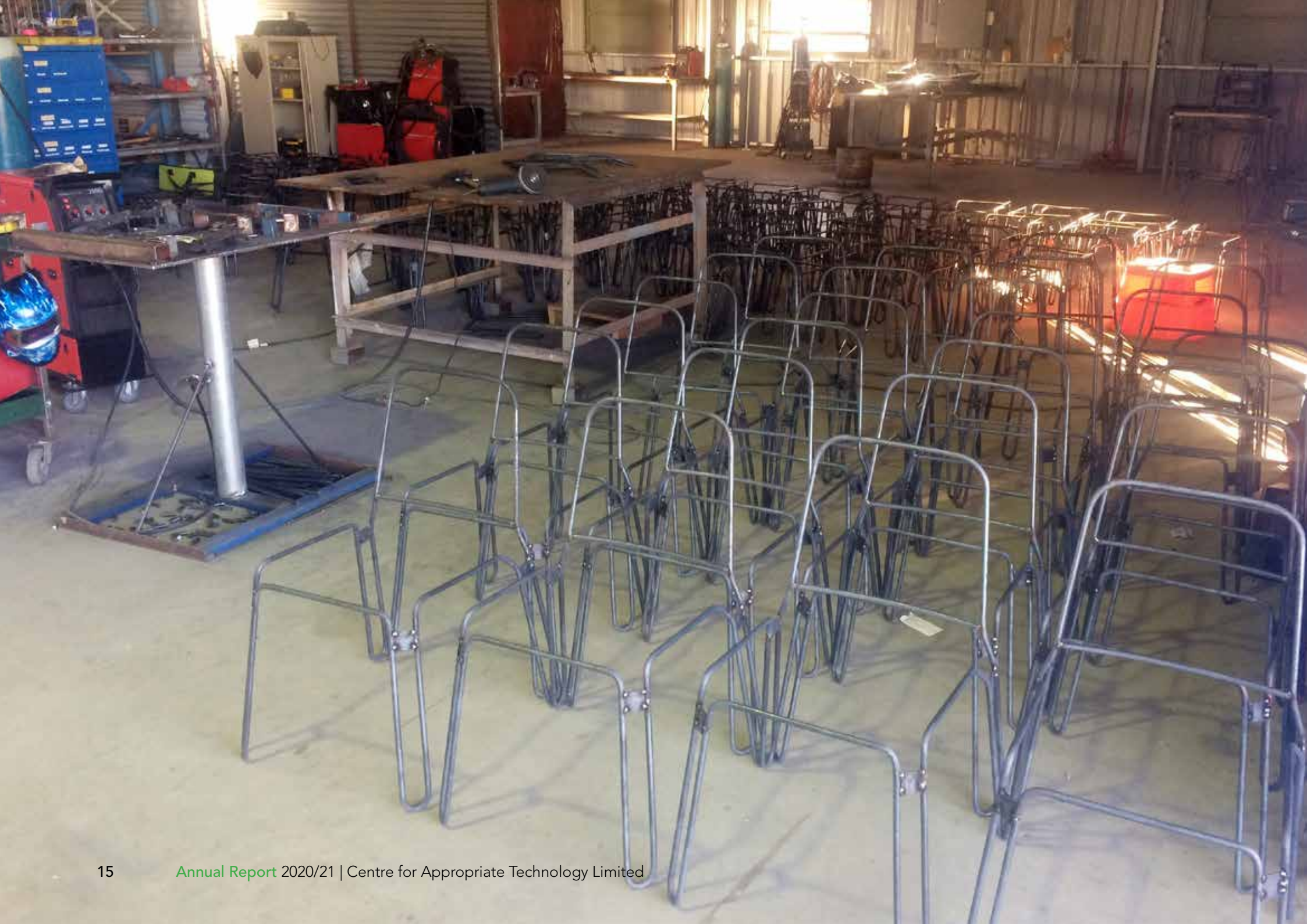


Sub-contracting from Ross Engineering for Metal Fabrication and Engineering Works

In the last financial year, traction and orders for CfAT's fabrication and metal engineering expertise and capability has increased from local contractors in the Construction and Engineering Industries. One of these, long term successful company ROSS Engineering, contracted various work order jobs in the last year, based on know-how and expertise within our workshop team, including the skills of our Workshop Manager, Mr. Rao Sangaru. Rao says, "We fabricate all types of metal structures including building fabrication, metal garbage bins, cattle yards, BBQ pits and metal decks. So, when clients, like Ross Engineering, who know our skills come to us with their needs, we're able to service these and deliver a quality product on-time, that fits well within their project-management timelines." In this case, the work-orders received from Ross Engineering and other clients, included making: metal structures like small sheds, roofing purlins, cabin frames and metal tree guards all with significant crucial financial stability for the workshop. We hope to grow this area of work to ensure we can continue to provide for apprenticeship opportunities for Aboriginal employees.

Impact: One impact is around capacity-building with medium to long-term gains on this. Because of cost-cutting resulting from pandemic, we were able to still complete these work orders with fewer people. Also, during this job period, our Aboriginal apprentices learned how to read the isometric drawings and incorporate heavy-duty welding to produce the results needed. The client-side feedback focused on how there were no drawing mistakes or repairs needed, indicated good quality, and overall satisfaction with in-time delivery. Our Apprentices, talked about how they've gained more confidence to do heavy-duty work following safety standards, and have gained new skills in heavy-duty welding and gas cutting.







KOSKELA we have been working on several projects for Koskela for the past two years

CfAT's Metal and Fabrication workshop continues to supply a major property developer group, Koskela now into its second year of supply into their group.

Workshop Manager, Mr. Rao Sangaru, says, "we are establishing a long-term and future pipe-line of work supported by the team at Koskela, with supply of our 12mm solid metal bars and flat bars for their furniture design, and are continuously supplying these items to the Koskela team over the past two years." Strong results and a super dedicated team mean that each major work order, completed with a lean and agile team of 2-3 apprentice workers, are able to deliver on-time, 1-2 weeks before each expected due date.



Impact: Koskela's client-side feedback indicates they're happy with the strong quality of the bars and fabrication needed, and remain impressed with our in-time delivery, despite Covid-19 pandemic logistic setbacks. Apprentice-feedback and impact focuses more on capacity building with our apprentices gaining more experience on using complex CNC machinery used for fabricating Industrial furniture, at a very high-quality and grading standard.



WHAT WE DO? HOW WE DO IT? IMPACT OF THIS?



Space Team Traction: CfATSE Ground Station

CSIRO Agreement and Contract with CfATSE as a First Nations Supply Registered Partner

The Centre for Appropriate Technology Satellite Enterprises (CfATSE) and The Commonwealth Scientific and Industrial Research Organisation (CSIRO) announced the signing of a three year agreement to utilise the CfATSE ground station to command and receive data from Novasar1. CSIRO, have a 10% stake in the Surry Satellite Technology Limited (SSTL) satellite which enables the remote sensing of the earth through all weather conditions, including heavy cloud and smoke.

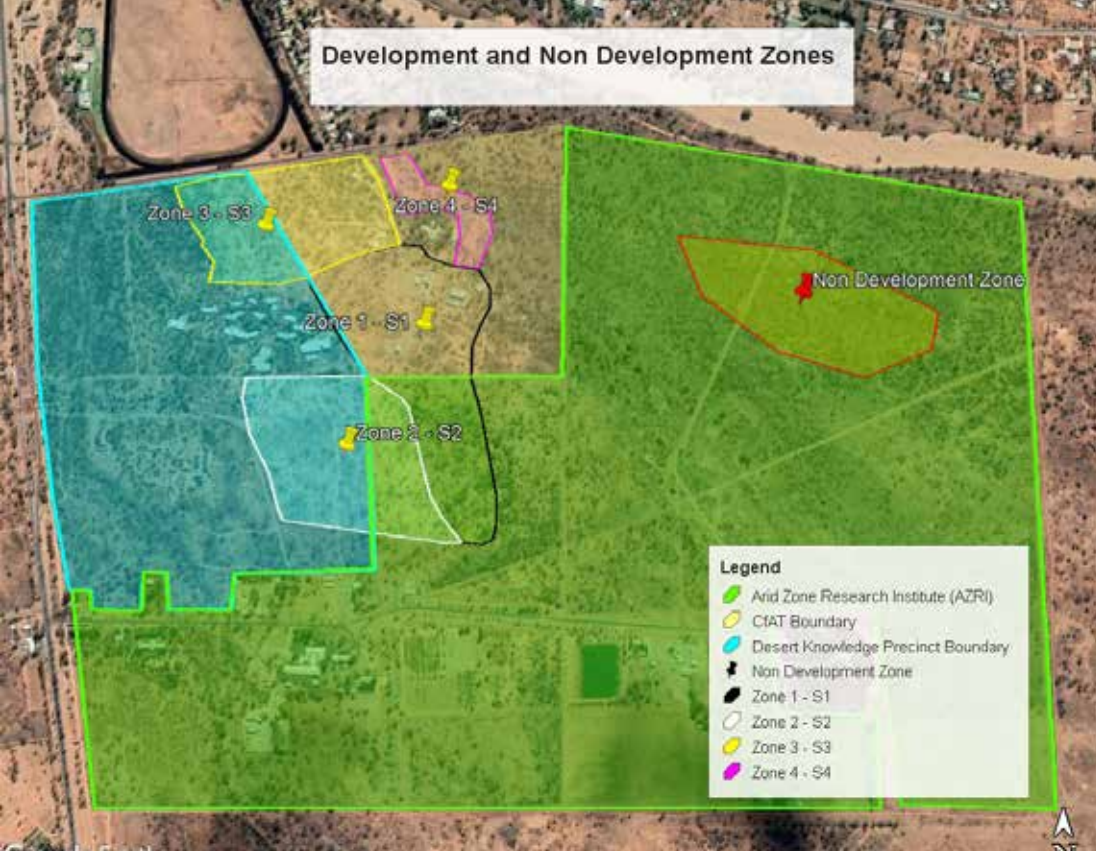
Impact: This is the first time Australia has managed its own source of Earth observation data and provides Australian researchers with medium and high resolution images of Earth from space. For example, researchers in industries like Agriculture and natural disaster management would find access to this data extremely beneficial. The 10% share of time on the satellite allows CSIRO to direct the satellite to collect data through a range of observation modes with priority over the Australian region for the duration of its mission.

Antenna Maintenance and Training

CfATSE partner Viasat Inc delivered on site workforce training to CfATSE, CfAT and Ekistica staff. This training provided all attendees with a high level understanding of the antenna systems, Auxiliary systems and the maintenance requirements for each. Dubbed Smart Hands, this training involved participant's operating an elevated work platform (EWP) in close proximity with the antennas in a safe manner. All participants were taught and practiced how to operate the antennas for maintenance and troubleshooting tasks.

Impact: To keep the ground station operational 365 days a year, a team of Smart Hand qualified operators are required. This training provides the with exposure to cutting edge technology.





Masterplan Phase One completion

The Northern Territory Department of Innovation and Trade provided a grant to CfAT to facilitate the master planning of CfAT and adjoining sites for the purpose of expanding the ground station. Canberra firm Geospatial intelligence (GI) were contracted to provide technical support and documentation of this plan. A number of zones were identified for future development and conversations with the land owners regarding those zones have been positive.

Impact: Ground station assets are key pieces of infrastructure that facilitate the communication between satellites in space and the users or operators on the ground. Central Australia's climate, location and CfAT's infrastructure expertise make the Ground Station extremely attractive.



Indigenous RTO Team Traction

DIT-supported Carbon Farming training with Aboriginal Carbon Foundation Fund

The Northern Territory Government's Department of Innovation and Trade supported CfAT to partner with Aboriginal Carbon Foundation Fund for the delivery of a carbon farming course in 2020. 13 Learners attended the course, with all units of competence being completed. The program is intended to provide participants with the skills and knowledge to contribute to community outcomes such as:

- ability to identify and use information that is needed to calculate, record and manage carbon credits generated from Aboriginal carbon farming projects;
- knowledge of the carbon credit marketplace to assist in securing communities a financial return from the selling of carbon credits;
- ability to identify, monitor and report on the achievement of community core benefits as a direct result of Aboriginal carbon farming. These include environmental benefits (feral animal control, more people employed as

rangers, protection of sacred sites, etc.) as well as the financial benefits from the sale of carbon credits. The program was delivered to Rangers located in the Top-End and one planned for Elliott Rangers was to be held in Tennant Creek but due to COVID restrictions ACF staff were unable to attend to assist with the delivery of the training.



WHAT WE DO? HOW WE DO IT? IMPACT OF THIS?



Aboriginal-identified RTO Management and Trainer Program Initiated

Supported by the Northern Territory Government's Department of Industry, Tourism and Trade (DITT) CfAT has implemented an Aboriginal-identified RTO management program to employ local Aboriginal educators to work with and support non-Indigenous trainers to deliver culturally appropriate contextualised training that addresses the needs of remote Indigenous communities including mentorship. This will also assist CfAT to overcome issues it has faced in recruiting

trainers due to Covid-19 travel restrictions and acute accommodation shortages in Alice Springs.

As a result of this program Ms Nerida Baker, a Southern Arrernte/Arabana woman, has become CfAT's first Aboriginal Training Manager and CfAT is now actively looking to recruit Aboriginal trainers. For those interested in working in this domain and being part of the training team do not hesitate to contact

us. Lots of support is available to help you on this journey and as Ms Nerida Baker reflects, "being part of the program, allows me to learn more about RTO Compliance Reporting and Program / Course Creation and to develop new innovation around programming, using both my Aboriginal cultural competency lens and my Trainer hat, to marry the two, and manage the program delivery".

Community-led consultations in Papunya, result in a new Pilot Program Focusing on Cultural Competency for Construction Service Providers

In 2020 a pilot study was undertaken that engaged community members and industry-based sectors operating in the Papunya community that could provide possible workforce pathways to identify the aspirations of the community and to identify barriers to local Indigenous employment and skills development. As part of this, CfAT Board Chair, Mr. Frank Curtis and CfAT CEO, Peter Renehan have been engaged in a series of community consultations on-country with the Papunya Leadership Group to set the foundations for future community engagement and firmly establish community ownership of the initiative.

In 2021/22 a Community Facilitator will be put in place to work with the community, employers, industry, government and community service providers to identify and establish supported pathways into local employment that maximise the use of available resources and secure employer commitment to subsequent workforce development, which along with mentorship is seen as critical to ensuring long term community benefit. Key to this will be working closely with other Northern Territory training providers such as Batchelor Institute of Indigenous Tertiary Education, Charles Darwin University and Civil Train to deliver contextualised pre-employment and workforce development programs that empower local community people to enter employment and to be successful while in employment.

The opportunity also exists to establish a 'community digital centre' in Papunya to support and enhance digital literacy for employees, students and other community members interested in self-development.

Facilities Team

Moving away from Glyphosate Based Spray

CfAT's Facilities Team is investigating appropriate pathways of replacement for glyphosate weeding sprays, to better protect staff, our clients and country. Our team is investigating alternatives including controlled species grazing, steam weeding and season cyclic weeding schedules. Working directly with a team of trainees from the NewStart program gives us first-hand ways to learn how to do this, with a live team in a safe and appropriate manner that maintains staff and working group occupational health and safety standards.

IMPACT: Because the grounds, including bird-life and wildlife natural habitats, corkwood trees and bushland has now reached a more advanced level of growth, using less chemicals and pesticides ensures these species are not damaged or poisoned. It also has an environmental health impact for our own staff that can adopt alternate means for grounds maintenance with less exposure to pollutants and contaminants.



Re-invigorating Life, People, Talent and Building use Back into the Precinct

Our Asset Management team is developing strategies with new and existing organisations and stakeholders to free up spaces within the Desert Knowledge Precinct. This includes the following: reducing the under-utilization of existing assets, developing relationships with like-minded organisations who wish to be hosted at the Precinct, and creating practical ICT hardware, server, networking, help-desk and technical solutions using existing ICT infrastructure already available at the Precinct. Discussions have started with Partners on-campus to find out what their ICT needs and building needs are, to better re-purpose, re-design and develop buildings, use of them and ensure tenant clients are happy in their workspaces while being hosted here by Cfat. Other developments include looking at shared projects and shared ICT services using the Server Room Stacks, Network Capabilities and Technical expertise already available on-campus to look at Aboriginal community ICT needs and gaps and devise solutions and

work projects where Cfat can play a role as Convener on these types of ICT-based needs, and possibly offer facilities to support this. For organisations interested in renting out space at our facility, please contact our asset manager, Joshua North, on joshua.north@cfat.org.au.

IMPACT: The impact of this in terms of community-building is medium to long-term. Initial work on re-fitting and fixing up building sites, and then identification of like-minded organisations to work on Science, Technology and Training projects here with us or in support of our plans, paves the way to overall community revitalisation of this space, and will attract more talent needed to drive and implement plans and activities developed here.





Queensland Team Traction

Merepah – Moomba-Awu Healthy Country Planning

CfAT completed work with Wik Iyenyi Traditional owners (between Coen and Aurukun) to create the Moomba-Awu Healthy Country Plan. During the course of creating this plan, CfAT assisted TO's to establish the Moomba-Awu Aboriginal Corporation (MAAC) as the representative organisation of the Wik Iyenyi people. Since completing the plan – MAAC has taken this document and

championed its interests over the ILSC owned Merepah property to formally enter into a full divestment (land hand back) process of the 180,000 ha of land, the Station infrastructure as well as the valuable carbon and cattle business. To date MAAC has created several jobs for its people and is on track to create many more as it implements its Healthy Country Plan.



WHAT WE DO? HOW WE DO IT? IMPACT OF THIS?

Wuthathi Healthy Country Planning

CfAT commenced creating a Healthy Country Plan with the Wuthathi Aboriginal Corporation for the protection and management of country and culture across their stunningly ecologically significant traditional lands around Shelbourne Bay Cape York. The HCP process established the economic cultural and environmental vision for the Wuthathi people, who in 2017 finally won the fight to have significant portions of their traditional lands return to their ownership.

At the time of commencing this process the grant we assisted them in securing for this project was the first grant to be managed by

them. These grants not only funded the planning project it also helped support wages of some of the initial staff. In 2020, partly as a result of the progress and presence of the Healthy Country planning process, WAC successfully received further funding to develop, consult and declare an Indigenous Protected Area over their lands and establish a ranger program. The HCP will become the plan of management for this Ranger program which marks a historic return to country for the Wuthathi People. CfAT is proud to stand alongside the Wuthathi in this historic moment.



WHAT WE DO? HOW WE DO IT? IMPACT OF THIS?

EKISTIKA

Granville Harbour Wind Farm

CfAT's Facilities Team is investigating appropriate pathways of replacement for glyphosate based weeding sprays, to better protect its staff, client base and country. Our team is investigating alternatives including controlled species grazing, steam based weeding and season based cyclic weeding schedules. Working directly with a team of trainees from the NewStart program gives us first-hand ways to learn how to do this, with a live team in a safe and appropriate manner, that maintains staff and working group occupational health and safety standards.

IMPACT: Because the grounds, including bird-life and wildlife natural habitats, corkwood trees and bushland is now reached a more advanced level of growth, using less chemicals and pesticides ensures these species are not damaged or poisoned. It also has an environmental health impact for our own staff that can adopt alternate means for grounds maintenance with less exposure to pollutants and contaminants.



Snowy Hydro Grid Connection

Ekistika conducted a Project management and advisory activity for the Snowy Hydro Grid Connection 2.0, NSW. Snowy 2.0 consists of a new underground power station and tunnels connecting the existing Tantangara and Talbingo Reservoirs in the New South Wales Snowy Mountains. In addition to the undisputed technical complexity of the Snowy 2.0 project, the grid connection process currently represents the single biggest challenge to developers in Australia. Appointed as project managers and advisors, Ekistika is working closely with several stakeholders to lead a large team of power system specialists, located in Germany and across Australia, as well as negotiating the grid connection agreement with the Australian Energy Market Operator (AEMO) and TransGrid.



IMPACT: Once complete, Snowy 2.0 will be one of the largest and most complex power generation projects in Australia. Snowy Hydro Ltd shared that, *“Snowy 2.0, is a nation-building renewable energy project that will provide on-demand energy and large-scale storage for many generations to come.”*

NIAA Ampilatwatja Water and Sewerage Feasibility

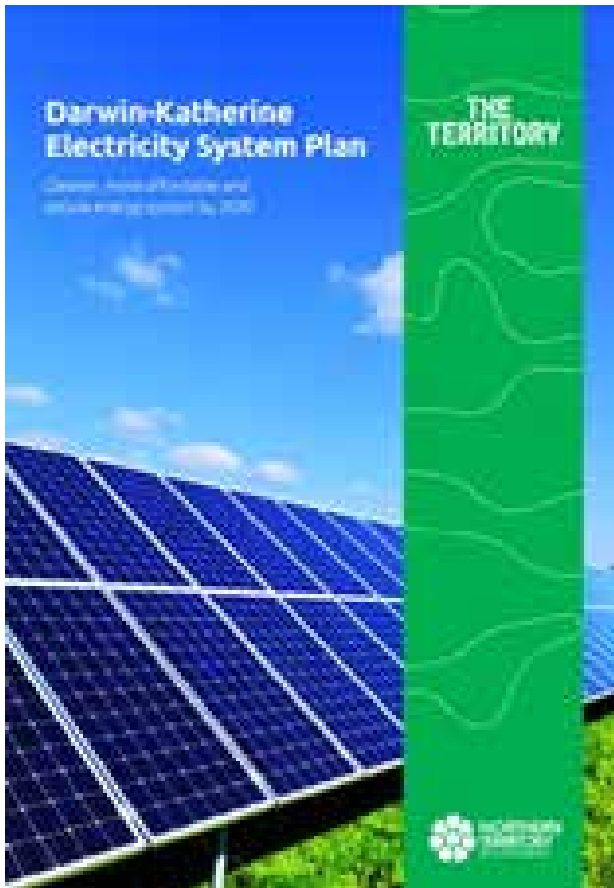
Ekistica conducted a NIAA Ampilatwatja Water and Sewerage Feasibility focusing on Technical Consultancy and Community Engagement. The National Indigenous Australians Agency (NIAA) engaged Ekistica to provide a two part consultancy to investigate options to address the water quality and sewerage issues and to develop the design of appropriate infrastructure and a statement of requirements for potential future construction tenders. Ekistica also undertook Community Engagement activities to collaborate with community members in identifying how resources are used, and inform and educate on future planned works.

IMPACT: Once completed, community members will have improved sewerage infrastructure to address the ongoing historic issues and improve overall quality of life. In reference to the project, the Hon. Ken Wyatt MP shared how *"we are not only acknowledging the deep connection Indigenous Australians have with our land, we are empowering them to set their own direction and to create the opportunity for a better, more prosperous future."*



Darwin-Katherine Electricity System Plan

Acting as Consulting Engineer for the Darwin – Katherine Power System Plan, NT, Ekistica was engaged to provide data analysis advice and input on the development of the Darwin-Katherine Power System Plan. This helped inform the analysis of the costs of a Renewable Energy Hub for large-scale solar, solutions to maximise committed generation, the optimal size of battery storage and impacts of demand management, and advice on power system needs towards 2050.



IMPACT: The plan was released in October 2021 by Environment Minister Eva Lawler and is set to transform the Darwin-Katherine electricity system to reach to government's 50% renewables target by 2030. In commenting on this plan's outcome, the Hon. Eva Lawler, MLA stated that, *"we need to stay ahead of the curve – and this System Plan provides the pathway to achieve this."*

ARENA Knowledge Sharing Outcome Studies

Data handler and knowledge sharing with the Australian Renewable Energy Agency (ARENA). Ekistica has been engaged by ARENA since 2014 to manage the Regional Australia's Renewables (RAR) knowledge sharing program as its knowledge sharing partner and data handler. Ekistica's work has led to continued engagement with the knowledge sharing and data handling elements of other ARENA-funded programs, most notably the Large-scale Solar (LSS) program.



IMPACT: Effective knowledge sharing is central to ARENA achieving its objectives of improving competitiveness and increasing supply of renewable energy in Australia. *"The Generator Operations Series: Large-Scale Solar Operations paper prepared by Ekistica is the second most downloaded report from the ARENA website."*

DIPL Indigenous Remote Community Housing Program

Ekistica acted as Project Manager of the Department of Infrastructure, Planning and Logistics, Northern Territory Government (DIPL) Indigenous Remote Community Housing Program – a \$2b project, delivered across 10 years. In the role of Project Manager, Ekistica has successfully overseen or is currently managing the delivery of many infrastructure developments including upgrades, replacement and new builds of 200+ houses across remote communities in the NT. Locations include Santa Teresa, Titjikala, Kaltukatjura (Dockers River), Ntaria (Hermannsburg), Mutitjulu, Alpurrurulam, Elliot, Tennant Creek and more.



IMPACT: Ekistica's sound performance providing project management services have ensured a consistent high standard of infrastructure, providing genuine benefits for the households to meet their habitation needs, enabling a healthy, hygienic and safe lifestyle. This also reflects local community aspirations around, *"Our Community. Our Futures. Our Homes."*

CfAT ECO-SYSTEM: OUR PARTNERS, THEIR ACHIEVEMENTS AT OUR FACILITY AND GROUNDS



CfAT LTD Legend	
1	LIVELIHOODS CfAT Ltd Reception CfAT Ltd Executive Corporate Services Human Resources
T1	TECHNOLOGY Training Administration Facilities
T2	Classrooms
T2	Classroom & Kitchen
T2	Cat Ltd Workshop
L1	LIVELIHOODS Seminar Rooms / Kitchen/toilets
W1	WELLBEING Batchelor Institute For Tertiary Education
WS1	WORKSHOP
HRS1	CfAT LTD AT HEATH ROAD SITE CfAT Ltd Reception EKISTICA Pty Ltd Jim Bray Board Room My Pathways & Parenting Research Room Jeanne Liddle Conference Centre
LSC1	LIFE SKILLS CAMP

Training Partners

Civil Train

DASA Life Skills Camp for Women

Bush mob rehabilitation at Horse stables

Translator Records Aboriginal community music production

Space Partners

Geoscience Australia

BAE Systems

Xoterika and Tun Yat

Land and Country Partners

Territory Natural Resource Management

Australian Wildlife Conservancy

Desert Support Services

NAKAU carbon farming

Andrew Schubert Botany and Parks Fire Management

Jorgen Greenhouse Plant Project





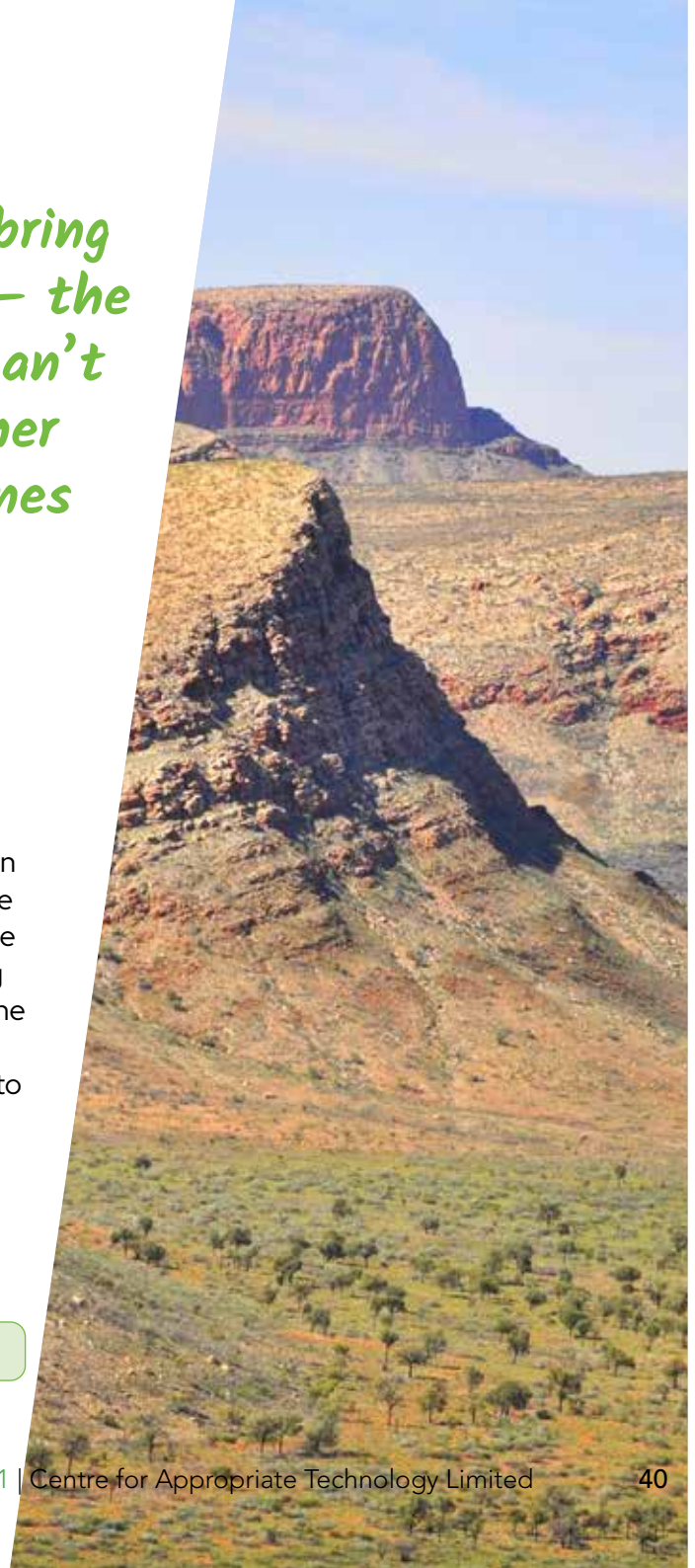


“I really want to bring the animals back — the bilby, the mala. I can’t wait to see the other animals, too, the ones I’ve never seen.”

Australian Wildlife Conservancy Work in Preserving Native Wildlife with Ngalia-Warlpiri and Liritja Communities

Australian Wildlife Conservancy (AWC) is the largest private owner and manager of land for conservation in Australia, effectively protecting wildlife and their habitat across more than 6.5 million hectares at over 30 locations. AWC manages Newhaven Wildlife Sanctuary, about 350km north-west of Mparntwe/Alice Springs on the southern fringes of the Tanami Desert. They work in close collaboration with the local Ngalia-Warlpiri and Luritja community to preserve existing native wildlife on the property by carefully managing threats like feral cats, foxes and fire. A feature of the property is a massive 9,400-hectare feral-free wildlife refuge established in 2017 by constructing 44km of electrified feral-proof fence. Mala, extinct in central Australia since the mid-1990s, was the first species to be released into the refuge and in the past year two further locally extinct species were added (brush-tailed bettong and red-tailed phascogale). There are plans for more species to be released in coming years. With the development of more effective techniques to control feral cats and foxes, AWC hopes to one day restore populations of these species in the wild, beyond the feral-proof fence. AWC ranger and Nyirripi community member Christine Napanangka Ellis is passionate about the project:

Contact: Josef Schofield | email: josef.schofield@australianwildlife.org | Website: www.australianwildlife.org





Centralian Seedling

My fledgling enterprise is called 'Centralian Seedlings'. As the name suggests, I'm propagating local natives from the arid zone to supply Alice Springs gardens, verges and other revegetation projects. I'm interested in providing Alice Springs with a steady stream of hardy and beautiful natives and in contributing to local residents' knowledge of and passion for the botanical wonderland they live amongst. The greenhouse at the Desert Knowledge Precinct has allowed me to continue to propagate seedlings over the winter months when it's too cold to germinate them outside and, as the weather gets warmer, provides a shaded and well-watered site for my seedlings to germinate, freeing me up to look after the many plants I have elsewhere.

Desert Support Services Kiwirrkurra Team Efforts

Desert Support Services support the aspirations of Traditional Owners to implement land and cultural management projects in several areas of Western Australia. Although their head office is in Perth, Rachel Paltridge and Ed Blackwood work out of the Alice Springs office, but each spend two weeks a month on the Kiwirrkurra Indigenous Protected Area, supporting four regular part-time Indigenous rangers and a pool of 60 casual rangers to perform essential land management services such as fire management, feral animal control, weed management and maintaining water sources on the IPA. The rangers have a strong two-way science program with the Kiwirrkurra school, and host Men's and Women's Cultural Camps each year. The Kiwirrkurra Rangers are well known for the success of their cat hunting to protect threatened species such as the bilby and great desert skink. They have removed 200 cats from the Kiwirrkurra IPA over the past six years. This has resulted in the persistence of a small but stable bilby population and an increasing population of great desert skinks.

Here is a quote from one of our young rangers, Jodie Ward:



"I love my ranger job. I love being able to go on country with my mum and learn from her because she's the expert tracker. I have learnt from my mum and everyone else their traditional knowledge about tracking, collecting Bush foods, how to make hair string, tjukurpa stories and where all the important sites are... But as young ranger I love learning new things and using technology like iPad, sensor cameras, microscopes and making videos because this stuff is exciting and good for sharing with other Rangers, even to rest of the world".

Contact: Rachel Paltridge | rachelpaltridge@dss.org.au | Website: www.australianwildlife.org





Civil Train Training Programs in Wadeye Engage, Prepare for Employment

Training programs have now entered their 3rd year in Wadeye, NT focusing on a housing and infrastructure program. Programs focus on training related to projects on-community that are predominantly housing related, with a strong emphasis on safety. Numerous participants who have undertaken the various training programs, have gone onto full-time employment within Wadeye. Over the years, the numerous training program facilitated by CTNT have provided relevant and challenging subjects that have benefited the Wadeye community as a whole leading to a significant numbers of people now fully engaged and employed in various sectors.

One of the many programs conducted by CTNT within Central Australia, involved solar panel installation at Engawala, Santa Teresa and Tijikala remote Indigenous communities. A number of participants gained employment throughout the project and were retained by a Darwin-based Indigenous organisation.



Civil Train Mining Programs now Scale-out in Partnership with Newmount Mines

Training with Yappa Crew has been going on for a number of years. They're an indigenous labour-hire crew for Newmount mines. Numerous members of yappa crew have gone onto full-time employment with Newmount Mines. Many have or are due to complete a Certificate III in Plant Operations / Civil Construction (trade-level qualification). The process to reach Certificate III was two years, involving 20+ Aboriginal trainees. This program has been so successful, that Newmount has come back to Yappa Crew, to scale-up from one to three Yappa Crew's of 10 in each group. Yappa Crew currently has approximately 12 members which will increase threefold. Yappa Crew is a Warlpiri work crew, including trainees from Lajamanu and Yuendumu who have family ties to Warlpiri.

KGL is a new copper mine that started near Bonya (Gervois mine, 100km past Harts Range - Areyonga). Civil Train first conducted training at Bonya 2018 working with local people who were interested in working at the mine. Recently the Civil Train team have been back to the mine to run plant operations and high-risk training, indicating that the mine has reached a more advanced level of growth. Individuals trained at Bonya are either working at the mine or have gone on to other employment within this sector.



Centralian Students, Juno Centre in Tennant and Simulators are an Effective Way to Engage Young People

Central Senior High School has run some Fee-for-service training, involved 12 senior students, running short programs on working at heights. Yirra College, Certificate I in Resource and Infrastructure, with a class of 10 Aboriginal students, all passed the course, completing successfully. This creates a pathway towards an Apprenticeship in numerous industries – Horticulture, Mining, Civil and Construction.

Juno Centre, Tennant Creek: this program involved working at heights, white card, and some foundation units, preparing students for introductory level into Industry. This was conducted for the NT Government Department of Education. Students were all from Tennant Creek. Activities at the Centre included a junior work-type camp with horse-riding. This Centre has benefited numerous students indigenous and non-indigenous, male and female. An Engagement program (plant simulators) In Ali Curung (school name), Civil train is conducting a federal Government initiative. This program focused on safety, basic mathematics and work experience in various industries. There were accredited units involved i.e. white cars, working at heights etc. However this program was designed to enhance industry

interest. This program involving heavy-plant simulators, was seen as a pilot with the potential to roll-out and train students from across numerous schools within the Northern Territory. The Department of Education has been discussing this use of simulators for long period of time. If required these simulators can allow students to enter their passwords, and link to various tasks that need to be completed on the simulator – so the trainer can watch and monitor the progress of each student from a central base.



Nakau Programme's Ecosystem Conversation financing, with Carbon Forest Projects in Fiji, Vanuatu and Solomon Islands

The Nakau Programme is an ecosystem conservation financing programme supplying conservation credits (such as carbon offsets) to buyers seeking carbon certification, brand alignment with environmental protection or those wanting to fund disciplined rainforest and ecosystem protection outcomes.

In 2020–21 Nakau continued to support long term forest carbon projects in Fiji, Vanuatu and The Solomon Islands. These projects protect 2700ha of tropical rainforest, provide secured income streams for up to 30 years for indigenous communities undertaking conservation work and offsetting more than 60,000T/CO2 annually through avoided deforestation.

A further three projects are under development in 2020–21 in The Solomon Islands, Vanuatu and Samoa.

“The Loru Carbon Project has enabled us to benefit economically from our role as environmental stewards. We have used the revenue for local employment, investing in agroforestry, paying school fees and securing our water supply.”

Serge Warakar
(Landowner, Loru, Vanuatu)



Statement of Profit and Loss and Other Comprehensive Income

	CONSOLIDATED		PARENT	
	2020 \$	2021 \$	2020 \$	2021 \$
INCOME				
Sales Revenue	6,792,482	8,146,635	2,470,225	2,659,719
Other	2,593,767	1,340,718	2,490,087	1,300,832
TOTAL INCOME	9,386,249	9,487,353	4,960,312	3,960,551
EXPENDITURE				
Employee benefits expense	5,021,243	5,088,367	2,240,719	1,893,214
Depreciation and amortisation expenses	409,129	1,089,118	286,959	287,616
Other expenses	3,645,183	3,118,382	2,652,410	1,328,444
Finance Costs	-	167,490	-	-
TOTAL EXPENDITURE	9,075,555	9,463,357	5,180,088	3,509,274
Surplus/(Deficit) before Income Tax	310,694	23,996	(219,776)	451,277
Income Tax Expense	(200,341)	(230,755)	0	0
SURPLUS/(DEFICIT) FOR THE YEAR	110,353	(206,759)	(219,776)	451,277

Statement of Financial Position

	CONSOLIDATED		PARENT	
	2020 \$	2021 \$	2020 \$	2021 \$
CURRENT ASSETS Cash, investments, receivables, other	6,095,344	6,715,655	2,875,244	3,478,631
NON CURRENT ASSETS Property, plant and equipment	18,669,995	17,668,600	12,099,910	12,357,398
TOTAL ASSETS	24,765,339	24,384,255	14,975,154	15,836,029
CURRENT LIABILITIES Creditors, accruals, provisions, other	3,228,660	3,635,226	1,482,417	1,916,397
NON CURRENT LIABILITIES	6,676,079	6,095,188	65,865	41,483
TOTAL LIABILITIES	9,904,739	9,730,414	1,548,282	1,957,880
NET ASSETS	14,860,600	14,653,841	13,426,872	13,878,149
EQUITY				
Accumulated funds	2,277,123	2,070,364	843,395	1,294,672
Reserves	12,583,477	12,583,477	12,583,477	12,583,477
TOTAL EQUITY	14,860,600	14,653,841	13,426,872	13,878,149

Centre for Appropriate Technology Ltd and Controlled Entity

Notes to the Financial Statements For the Year Ended 30 June 2021

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 entities are 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 Entities 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.

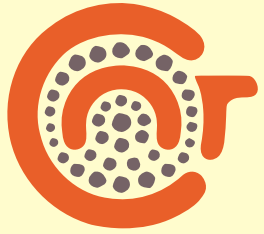
Revenue from contracts with customers

The core principle of AASB 15 is that revenue is recognised on a basis that reflects the transfer of promised goods or services to customers at an amount that reflects the consideration the Group expects to receive in exchange for those goods or services. Revenue is recognised by applying a five-step model as follows:

1. Identify the contract with the customer
2. Identify the performance obligations
3. Determine the transaction price
4. Allocate the transaction price to the performance obligations
5. Recognise revenue as and when control of the performance obligations is transferred

Generally, the timing of the payment for sale of goods and rendering of services corresponds closely to the timing of satisfaction of the performance obligations, however where there is a difference, it will result in the recognition of a receivable, contract asset or contract liability.

None of the revenue streams of the Group have any significant financing terms as there is less than 12 months between receipt of funds and satisfaction of performance obligations.



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Technology Limited

Ekistica

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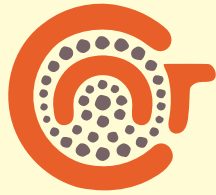
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Centre for Appropriate
Technology Limited

“Good health and wellbeing in this sense is premised on the development of community-controlled organisations and institutions that can reconstruct our Indigenous nation-hoods to restore our societal and cultural practices, protocols and knowledge systems. It is this societal restoration that brings us all, the human and the non-human and the surrounding ecology back to full health and wellbeing”

Ms. June Oscar AO,
Aboriginal and Torres Strait Islander
Social Justice Commissioner

