



live &
learn

ENVIRONMENTAL EDUCATION



ANNUAL REPORT
2020-2021



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**We are excited
to share our new
Live & Learn logo**



**live &
learn**

ENVIRONMENTAL
EDUCATION

Thirty years ago, when Live & Learn began, we chose a circle enclosing two hands holding a seedling to be our logo. The hands belonged to the daughter of an expert wood carver named Peter Aldeo from Marovo Lagoon in the Solomon Islands, the site of Live & Learn's first ever project. Peter had fought against logging and mining projects in the area and drew the picture of his daughter's hands after a successful timber rights hearing. This drawing represented the world we wished to create - an image of hope and regeneration enclosed in a circle representing the earth and the sea.



Live & Learn has changed since then and so has the world we live in. We have grown from our small beginnings to a big family of more than 400 dedicated staff and volunteers working from the Indian Ocean to Southeast Asia to the Pacific. Meanwhile, environmental awareness and urgency has increased across the world, as has acceptance of and action around climate change.

The story of Live & Learn has turned to a new chapter, and with it comes a new logo.

Working together, the Live & Learn network has adopted this logo to better represent our identity and the world we work in, while retaining strong links to our founding ideals and vision.

The hand is still enclosed in a circle, a symbol which can be found everywhere in Indigenous cultures. Circles represent relationships and the interconnectedness of people and the environment; the earth is also a circle and we are all part of earth's systems. The colour also remains the same blue-green, suggesting the forest and the ocean coming together.

Showing one hand holding out a seedling as a gift, our new logo symbolises both nurturing and inviting. The welcoming hand is caring for the environment while also reaching for others to work alongside it in taking care of our land, seas and people. The single hand represents Live & Learn's focus on growing partnerships in our deeply interconnected world.

Finally, as Live & Learn is now in a new phase of its existence, the logo shows the importance of giving the gift of knowledge to the next generation to ensure this caring and nurturing work continues into the future.



Our Goal

Live & Learn works towards a sustainable and equitable world free from poverty.

In pursuing this goal Live & Learn applies three principles:

- (i) Localising development interventions and building on existing knowledge, including indigenous knowledge, leads to sustainable outcomes and empowered communities.
- (ii) Establishing broad-based collaboration with private academic, government and non-profit sectors adds value to our work, allows us to be influenced in our thinking and sharpens our focus.
- (iii) Institutionalising courage across the networks promotes innovation, trust and inclusion, and neutralises risk aversity that is currently holding back progress and impact.

Our Network

Live & Learn is a dynamic learning network of locally registered organisations operating in ten countries across South-East Asia, the Indian Ocean and the Pacific.

Live & Learn country offices are registered as local NGOs. They are locally managed and staffed and have partnerships with government agencies in their respective countries of operation. Building local capacity, confidence, skills and partnerships within our networks is fundamental to Live & Learn. This strengthens our relationships with communities, builds local ownership and ensures long-term commitment to our programs.

The Live & Learn Network office, located in Melbourne, Australia, provides strategic, compliance and technical support to the Live & Learn Network, and ensures effectiveness and transparency as per the Australian Council for International Development (ACFID) Code of Conduct.

Our Work

Live & Learn's work is aligned with the three key areas of sustainable development: environment, society and economy, with culture as an underlying dimension.

Environment

Design, implement and scale up activities that are supporting climate change resilience, including nature-based solutions to climate change and livelihood development, water security, biodiversity conservation and rehabilitation of ecosystems.

Society

Design, implement and scale up activities that are supporting the empowerment of women, girls and marginalised groups by creating space for agency and voice, including leadership development, health promotion, access to economic opportunities and awareness raising. Further, the Live & Learn Network supports communities affected by natural disasters and global pandemics.

Economy

Design, implement and scale up activities that are supporting Payment for Ecosystems Services through equitable and transparent community approaches, including carbon financing, SDG credits, social impact investment and supporting growth in the blue economic sectors.

Culture

Underpinning these three paradigms is acknowledging and valuing indigenous knowledge in development programming and implementation, including basing development interventions on a full understanding of local cultural context and indigenous perspectives, utilising existing local systems as entry points and implementation mechanisms, and finding synergies between science and indigenous knowledge for the purpose of impact and sustainability.

Where we work

Cambodia
Fiji
Kiribati
Maldives
Micronesia
New Zealand
Papua New Guinea
Solomon Islands
Tonga
Tuvalu
Vanuatu
Vietnam



Sustainable Development Goals

Live & Learn is committed to achieving the Sustainable Development Goals through its work. While the 17 goals are interconnected, our work primarily focuses on the following:

Network map



Thematic areas

Local ownership of environmental and development education programs, open participation and equality remain the foundation of our organisation. Live & Learn works with communities throughout Asia and the Pacific to design, implement and learn from community-based development projects.

The projects are specific to each community and cover a number of thematic program areas, including the following:



Environmental Protection

Live & Learn promotes community-based activities that encourage people to protect the environment. Our projects cover environmental governance, biodiversity protection and education, invasive species management, conservation and eco-tourism training. These activities also provide other forms of employment that don't involve environmental degradation.



Climate Change

The Asia-Pacific region is highly vulnerable to the effects of climate change. As a result, Live & Learn works to strengthen community resilience at the local level by helping to create adaptation plans. Building resilience to the impact of climate change in water, sanitation and hygiene, food security, income generation and gender equity is at the core of our work.



Water, Sanitation and Hygiene

Water, sanitation and hygiene are essential for eradicating extreme poverty. Live & Learn empowers communities to use their own skills and resources to meet their water and sanitation needs. We implement projects that improve access to safe sanitation, promote positive hygiene behaviours, protect the local environment and help people recover quickly after disasters.



Disaster Risk Reduction and Response

Live & Learn works in vulnerable regions of the world threatened by natural disasters such as cyclones, earthquakes, volcanoes, droughts and floods, in addition to the impacts of climate change. Live & Learn works with communities and governments, at various levels, to help people better prepare for and recover from disasters. Our aim is to encourage a culture of preparedness in the communities we work with to promote efficient and effective recovery efforts.



Human Rights and Freedoms

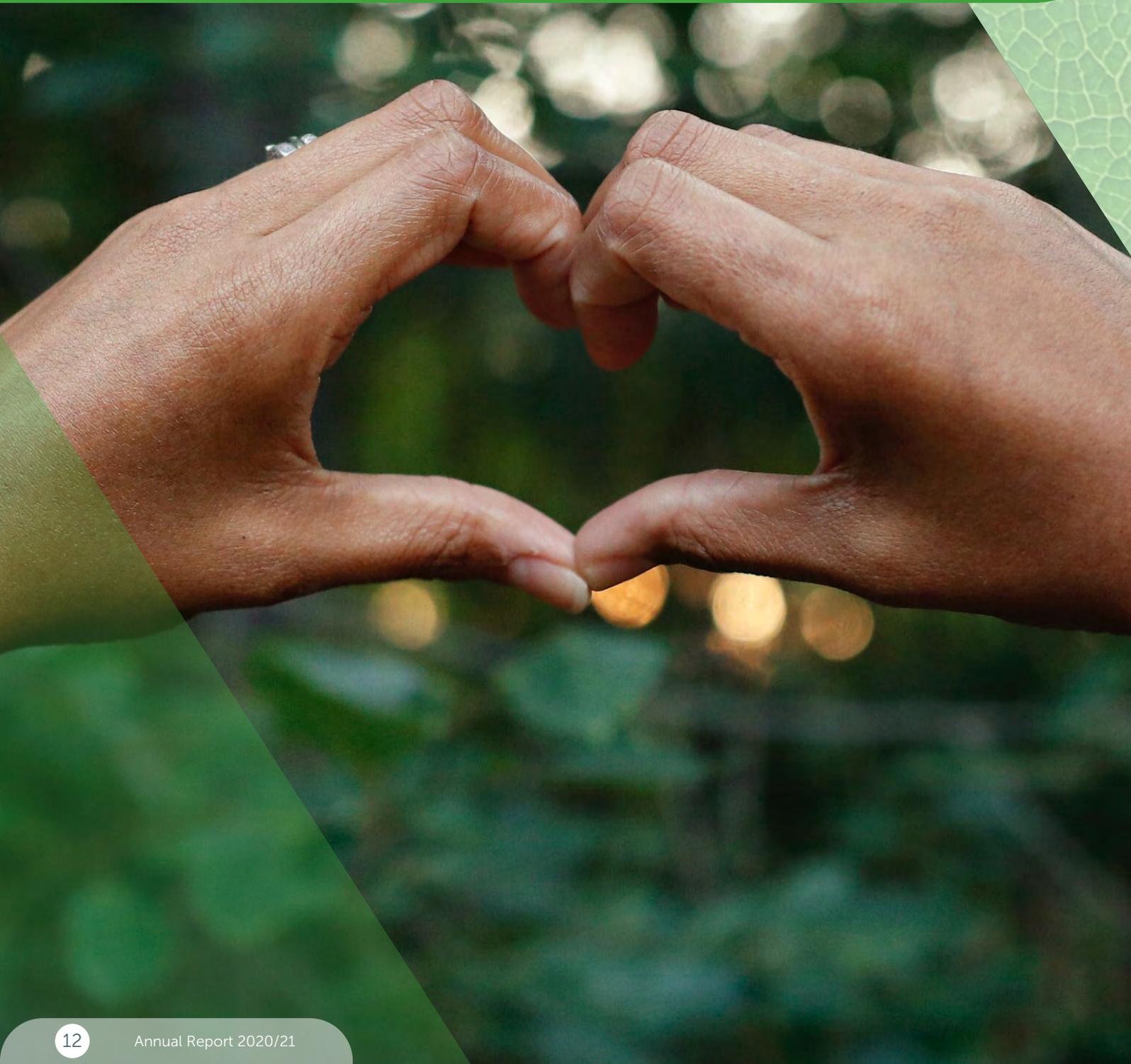
The concept of human rights recognises the inherent value of each person, regardless of where we live, what we look like, what we think or what we believe. This is the moral foundation of all of our work and influences the nature of the projects that are implemented by Live & Learn. We value the power and rights of the individual and believe that upholding human rights is essential to achieving sustainable development.



Gender and Women's Empowerment

Empowering women and girls to participate fully in all aspects of life is vital to building stronger economies and to improving the quality of life for families and communities. Live & Learn promotes gender equality and inclusion across all areas of our work. Seeing women involved in all areas of decision making and empowering them to be agents of change in their communities is integral to our organisation.

Chair Report



Thank you!

The past year has challenged our individual and societal resilience and coherence.

The rapid spread of the Delta COVID-19 strain has exposed inequalities and vulnerabilities across our planet. Live & Learn has responded with all our energy and perseverance. In Fiji, our teams worked tirelessly with the government in providing relief through the distribution of food rations, hygiene kits and personal protective equipment. To date, over 1,400 households in the locked-down Suva-Nausori corridor and the Nausori-Lami containment zone have benefited from these deliveries. In PNG, our teams have been working with partners to raise hygiene awareness and support women-led enterprises that produce protective masks and sanitation products. In Tuvalu, we are working to strengthen local food security in remote islands using water-efficient wicking systems. However, the road to recovery will be long and the vaccine inequality will have a lasting and profound impact on socio-economic recovery in developing countries.

Live & Learn will, in collaboration with development partners, continue to support recovery in the year ahead.

On behalf of Live & Learn's Board of Trustees, I want to express our heartfelt gratitude to Live & Learn's staff who have met the immense challenges over the past year with unwavering commitment and compassion, and to our partners for their unwavering support.

Iris Brito

Chair – Live & Learn Board of Trustees



A message from our Executive Director

**A net-zero and
nature-positive
development
paradigm has
become urgent**

The recent report from the IPCC was a sobering read, on top of daily headlines on COVID-19 infections, lockdowns and travel bans. The report tells us that climate change will fundamentally reshape life on Earth in the coming decades, even if humans can halt or significantly reduce planet-warming greenhouse gas emissions. In Paris in 2015 the international community committed to limiting global warming to 1.5° C above pre-industrial levels. We are likely to pass this by 2030 based on current trajectory, and this reality demands even greater ambitions than we currently hear from leaders.

We have had a vaccine for climate change for decades: stop burning coal, get electric cars on the road and halt deforestation. But, as with COVID-19, we see deep vaccine hesitancy within the global community and this reluctance will put people and planet at risk. The next decade is critical to getting on the right track for a net-zero and nature-positive economy. We need a complete economic paradigm shift where economic activities go beyond just limiting or neutralising environmental damage. This is especially important for more vulnerable communities, such as small island states. A nature-positive approach enriches biodiversity, stores carbon, purifies water and reduces pandemic risk. In short, a nature-positive approach enhances the resilience of our planet and our societies.

Some years back I interviewed the much-admired Canadian zoologist and environmental activist David Suzuki. He told a story about the Sakai salmon in British Columbia. Logging of old growth forests had caused erosion and polluted the water, and the Sakai salmon did not migrate into the rivers for breeding. As a result, the numbers plummeted, and many scientists declared the Sakai salmon was extinct. The Canadian government started buying up commercial fishing licenses. The following year British Columbia saw the largest migration of Sakai salmon, and no-one could explain why. On this, David Suzuki said, we don't know enough about the natural world to ever say it is too late, and therefore we should never give up fighting.

How then to make the shift to a net-zero, nature-positive economy within the decade? The mounting alarming science on climate change should ignite an urgency in us to be ambitious, courageous and collaborative. The pandemic has shown that when our backs are against the wall, incredible things are possible.

The partnerships catalysed between governments, NGOs, scientists and the private sector to produce a suite of new vaccines within 12 months are a remarkable testament to our ability to innovate at scale, fast, when we feel we must.

The urgency and determination applied to the COVID-19 pandemic now needs to be applied to dealing with climate change.



Christian Nielsen

Executive Director

LIVE & LEARN PROJECTS

Local ownership of environmental and development education programs, open participation and equality remain the foundation of our organisation.

Live & Learn works with communities throughout Asia and the Pacific to design, implement and learn from community-based development projects.

CAMBODIA

PROJECT	SUPPORTED BY	THEMATIC AREA
Rural Water and Agriculture Infrastructure Initiative	The Charitable Foundation	<i>Water, Sanitation and Hygiene</i>
Assessment and Knowledge Products Development for the Community Development and Knowledge Management for the Satoyama Initiative (COMDEKS) Phase III	United Nations Development Programme - Small Grants Programme	<i>Environmental Protection</i>
Improved health status for indigenous communities	Johanniter/ Federal Ministry of Economic Cooperation and Development: BMZ	<i>Water, Sanitation and Hygiene</i>

FIJI

PROJECT	SUPPORTED BY	THEMATIC AREA
Ecosystems Climate Adaptation Program	European Union	<i>Climate Change</i>
RISE Project	Monash University	<i>Water, Sanitation and Hygiene</i>
Australian Humanitarian Partnership	Australian Department of Foreign Affairs and Trade	<i>Disaster Risk Reduction and Response</i>
Climate Islands Resilience Program	New Zealand Ministry of Foreign Affairs and Trade	<i>Climate Change</i>

KIRIBATI

PROJECT	SUPPORTED BY	THEMATIC AREA
COVID-19 Mitigation and Preparedness in Pacific	United States Agency for International Development: Office of Foreign Disaster Assistance	<i>Disaster Risk Reduction and Response</i>
COVID-19 Response	Australian Department of Foreign Affairs and Trade /AHP	<i>Disaster Risk Reduction and Response</i>
Kiribati Food Futures Program	Australian Department of Foreign Affairs and Trade	<i>Climate Change</i>
Climate Resilient Islands Program	New Zealand Ministry of Foreign Affairs and Trade	<i>Climate Change</i>
Water, Sanitation and Hygiene Awareness Program	Asian Development Bank	<i>Water, Sanitation and Hygiene</i>

MALDIVES

PROJECT	SUPPORTED BY	THEMATIC AREA
Public Awareness and Capacity Building Programme	Asian Development Bank	<i>Climate Change</i>

PAPUA NEW GUINEA

PROJECT	SUPPORTED BY	THEMATIC AREA
Water for Women: Resilient WASH in the Islands Region of Papua New Guinea	Australian Department of Foreign Affairs and Trade	<i>Water, Sanitation and Hygiene</i>
WASH Systems Strengthening	Vitol	<i>Water, Sanitation and Hygiene</i>
COVID Response Phase 2 & 3	Australian Department of Foreign Affairs and Trade	<i>Disaster Risk Reduction and Response</i>
Water for Women: Papua New Guinea Consortium WASH Fund (Post)	Australian Department of Foreign Affairs and Trade	<i>Water, Sanitation and Hygiene</i>

SOLOMON ISLANDS

PROJECT	SUPPORTED BY	THEMATIC AREA
Water for Women: New Times, New Targets	Australian Department of Foreign Affairs and Trade	<i>Water, Sanitation and Hygiene</i>
Solomon Islands Better Learning Environment (SIBLE)	UNICEF	<i>Water, Sanitation and Hygiene</i>
Community Forest Conservation in Solomon Islands	Australian Department of Foreign Affairs and Trade	<i>Environmental Protection</i>
COVID-19 Active Response	Australian Department of Foreign Affairs and Trade / Australian Humanitarian Partnership	<i>Disaster Risk Reduction and Response</i>
Sustainable Land Management	Food and Agriculture Organization of the United Nations	<i>Food security/ Climate Change</i>

TONGA

PROJECT	SUPPORTED BY	THEMATIC AREA
WASH Recovery and Resilience in Tonga	Australian Department of Foreign Affairs and Trade	<i>Water, Sanitation and Hygiene</i>
Youth Climate Empowerment	European Union	<i>Climate Change</i>
Climate Islands Resilience Program	New Zealand Ministry of Foreign Affairs and Trade	<i>Climate Change</i>

VIETNAM

PROJECT	SUPPORTED BY	THEMATIC AREA
CAfCA: Collective Actions for Clean Air	United States Agency for International Development	<i>Climate change</i>
BNO: We strive for a just world that advances children's rights and equality for girls, focus on promotion of a safe and a child friendly care and education system in Lai Chau and Kon Tum provinces in Vietnam.	Plan International	<i>Human Rights</i>
BC: Active Citizens for a World without Waste between the British Council in Viet Nam and Cocacola Viet Nam	British Council	<i>Climate Change</i>
I love clean water	National Youth Pioneer Council	<i>Water, Sanitation and Hygiene</i>

TUVALU

PROJECT	SUPPORTED BY	THEMATIC AREA
Tuvalu Food Futures Project	Australian Department of Foreign Affairs and Trade	<i>Climate Change</i>
COVID-19 Mitigation and Preparedness in Pacific	United States Agency for International Development: Office of Foreign Disaster Assistance	<i>Water, Sanitation and Hygiene</i>
COVID-19 Response	Australian Department of Foreign Affairs and Trade /AHP	<i>Disaster Risk Reduction and Response</i>

VANUATU

PROJECT	SUPPORTED BY	THEMATIC AREA
Gender Analysis of WASH in Schools	World Bank	<i>Water, Sanitation and Hygiene</i>
Agriculture and waste water discharge	Australian Centre for International Agricultural Research	<i>Food Security</i>
Climate Islands Resilience Programme	New Zealand Ministry of Foreign Affairs and Trade	<i>Climate Change</i>
Erromango Carbon Program	Greencollar	<i>Environmental Protection</i>



CORONAVIRUS RESPONSE



Fiji:

Smiles of appreciation

Fiji avoided the worst of COVID-19 at the start of the pandemic, but an outbreak in April 2021 saw infections climb over the ensuing months. The second wave of COVID-19 has continued to grow, putting huge strain on communities and health services. As cases grow, vulnerable communities in lockdown wait to receive much needed assistance.

Live & Learn Fiji staff were greeted with smiles of appreciation as they handed over food rations to vulnerable families. The contents of the food packs (including rice, biscuits, tea, flour, oil, milk powder, split peas and tinned fish) was a joyful sight for those unable to leave their homes.





Physical distancing has been hard to achieve for affected people living in the fast-growing informal settlements around the main cities. Families often live with multiple generations under one roof, including children and the elderly, and in houses that lack adequate sanitation facilities.

To improve hygiene and help people protect themselves from the virus, hygiene kits were also provided (including menstrual pads, handwashing soap, toothbrushes, toothpaste, laundry soap, dish soap, sponges, and antiseptic cleaners). With the support of the Ministry of Health and funding from the New Zealand Ministry of Foreign Affairs and Trade, the Live & Learn Fiji team has distributed food rations to 345 households, and hygiene kits to 322 households within the Lami, Nausori and Suva corridors.

In the first phase of the response Live & Learn Fiji supplied communities and schools with 3-month supplies of handwashing soap. To ensure that there was a sustainable soap supply in the future a consultant was hired by Live & Learn to conduct soap-making training. Eighteen male and female participants from the three districts of Yawe, Yale and Nabukelevu-i-ra in Kadavu and Vatulele attended the two-day workshop, which taught them the basic skills needed to make soap and pass their knowledge onto others.

Additionally, proper handwashing has been encouraged by students through the installation of new handwashing stations in schools in Kadavu and Vatulele. Hygiene facilities have been upgraded and students have received training on the importance of handwashing with soap and water to minimise the spread of disease.

By improving hygiene practices in schools, students will be able to share their knowledge with their families and communities to build resilience to COVID-19. This work was conducted as part of the WASH in Schools programme, funded by USAID through the Office of Foreign Disaster Assistance. Over 500 students will be positively impacted and become agents of change in their communities.

Papua New Guinea: *Improving access*

One of the hardest hit Pacific countries from the beginning of the pandemic, Papua New Guinea saw cases of COVID-19 rising out of control from March 2021 onwards. At one point, there were at least 8,000 active cases across the country, as authorities struggled to respond to the outbreak.

Women in Papua New Guinea commonly make a living by selling cooked and raw foods at roadside stalls. However, they have been unable to keep this work due to restrictions imposed by COVID-19. This has severely interrupted their income streams and created financial insecurity.

At the same time, import restrictions have reduced people's access to supplies from urban centres, impacting women's ability to purchase personal health and menstrual products. Live & Learn Papua New Guinea has recognised an opportunity to both diversify women's income streams and provide access to much needed hygiene products.





Workshops were conducted with women in 20 wards, where they have been taught the skills needed to make soap, face masks and menstrual pads. Community interest in the sessions saw an unexpected increase in turn out, with some 3231 people expected to have been reached across 30 villages.

“Women are the direct beneficiaries of the training activities, while the introduction of new skills into rural communities will also benefit the broader community by improving access to hygiene materials produced and sold, improving the local economy,” said staff from Live & Learn Papua New Guinea.

These workshops have been made possible through the Water for Women Project and the Australian Humanitarian Partnership, in partnership with Plan International and funded by the Australian Department of Foreign Affairs and Trade.

Live & Learn Papua New Guinea has surpassed expectations in delivering training to vulnerable people, while also working in partnership with the Provincial Health Authority to deliver awareness messages to the community. Five COVID-19 awareness billboards have been erected by Live & Learn Papua New Guinea in three major population centres of New Ireland Province.

The billboards express the importance of vaccination and personal hygiene (particularly handwashing with soap) as a way to stop the spread of the virus. The team has been committed to distributing COVID-19 education messages since the start of the pandemic and have been able to continue their success with the support of the Australian Humanitarian Partnership.



Live & Learn Papua New Guinea is promoting a culture of prevention of COVID-19 through safe hygiene practices and supplying communities with the skills they need to maintain resilience through this crisis.

Solomon Islands: *Thinking long term*



Ernest Ta'asi, Oxfam



Ernest Ta'asi, Oxfam

There have been 20 confirmed cases of COVID-19 and zero deaths in the Solomon Islands since the pandemic began. In early 2020, at the start of the outbreak, Live & Learn Solomon Islands did an excellent job at rapidly spreading awareness information about how to protect yourself and others from the virus. Since then, their tactics have changed and adapted to suit the changing needs of the population.

Under the COVID-19 Active Response program, Live & Learn Solomon Islands is focusing on four key outcomes: food security and livelihood; COVID-19 protection; gender and social inclusion and water, sanitation and hygiene (WASH). Supported by the Australian Humanitarian Partnership, Live & Learn Solomon Islands has been working with vulnerable communities based in and around the capital of Honiara. This includes 200 at-risk women, identified by the Women's Christian Association, who have disabilities, are victims of violence or lack support networks.

Maria Afu, COVID-19 Active Response program staff, said, "Other organisations focus on the rural areas, but for us, working within Honiara town reaches some of the most vulnerable people, who are often forgotten."

With funding from the Australian Department of Foreign Affairs and Trade, program staff have worked with these 200 women, 13 schools and 11 communities, on food security training. In Honiara the prices of fresh fruit and vegetables are very high and often out of reach for families whose income and livelihoods have been affected by the pandemic.

Maria says that "for most of the communities, they said this is the first time for livelihood response, usually it is on WASH and hygiene and handwashing stations, but they are very interested in food security because it is about food, health, nutrition and money. And they thank Live & Learn."



Ernest Ta'asi, Oxfam

The food security training involves basic gardening skills as well as the supply of tools and seeds to encourage home gardening. Training is conducted in partnership with Kastom Gaden, an organisation with 25 years of experience in the Solomon Islands. This will ensure access to healthy and nutritious foods regardless of impacts caused by the pandemic.

“We are also training communities to revert to the old way of gardening for climate resilience. Traditional knowledge and a traditional way of living is how we survived before times changed. We are addressing COVID-19 but also thinking long term,” says Maria.

Additionally, the program has created a tailored response to the WASH needs of the 13 schools and 11 communities it works with. This includes the installation of rainwater tanks that can not only be used for handwashing, but also drinking and cooking. A partnership with Kaleko SteiFree has continued to support positive hygiene practices, including menstrual health management, in the community. As a result, 2,000 hygiene kits are currently in production for at-risk women, communities and school-aged girls.



The Island Sun News, Solomon Islands



The Island Sun News, Solomon Islands

Tuvalu:

All about preparation

The Government of Tuvalu declared a State of Health Emergency, effective on 20 March 2020, for the whole of Tuvalu due to the global COVID-19 pandemic. The swift border closure has prevented any cases of COVID-19 from entering the country, but there remains a growing concern among the population that it is only a matter of time.

With limited medical personnel and equipment, the nation is vulnerable to being overwhelmed by the pandemic. To keep people safe in the event of an emergency, Live & Learn Tuvalu is promoting a culture of preparedness. The goal of their work is to reach as many people as possible with awareness about the simple precautions everyone can take to protect themselves in the event of COVID-19.

As part of the COVID-19 Mitigation and Preparedness in Pacific program, a team from Live & Learn was mobilised to travel to the islands of Vaitupu, Nukufetau and Nui. This journey was possible with the support of the USAID Office of Foreign Disaster Assistance and in partnership with CARE Australia. During their visit the team called on households to deliver supplies and promote hygiene awareness.

The team reached 445 households across all three islands, each receiving their own 'hygiene kit.'

Their mission was to visit every household and provide them with soap, a portable handwashing station and education materials. The handwashing stations take the form of 15-litre refillable buckets. These are designed to be kept outside, next to the front entrance of the home, so that





people can wash their hands before entering. Underneath, another bucket catches the water, which can then be used on gardens.

Itaia Lausaveve, Chief Technical Advisor from Live & Learn Tuvalu, said, "It's all about preparation. What's important now is to educate the children. A lot of information was passed onto the children and now even the parents have come to appreciate how important it is to wash your hands."

Through the promotion of a catchy song, children in households across Tuvalu know what steps they can take to properly wash their hands. Children are creating change and sharing their knowledge with their families. "Water, sanitation and hygiene is now really strong in our minds; everybody is well prepared and will know what to do," says Itaia.





STORIES FROM THE FIELD

Every day, extraordinary work is being done in each of the 13 countries in which the Live & Learn network works. Dedicated staff and volunteers work endlessly, committed to strengthening their communities and their countries.

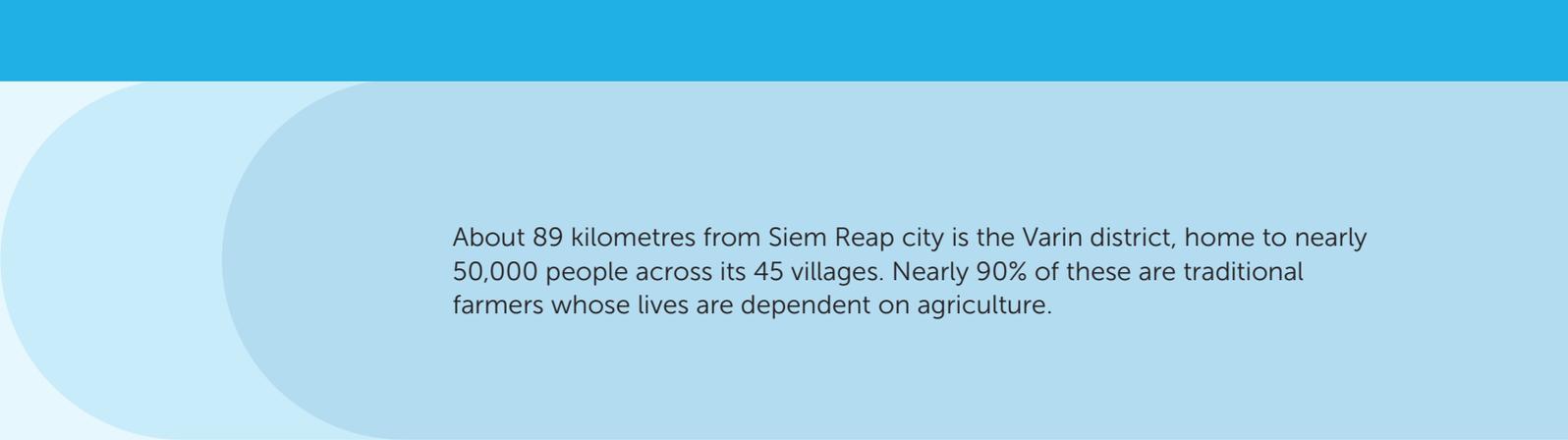
The past year has seen significant challenges across Asia and the Pacific, from COVID-19 to natural disasters and more. Despite these challenges, the people who make up the Live & Learn family have carried on their crucial work to improve water, sanitation and hygiene; protect human rights and freedoms; care for the environment; empower women and girls; and create communities that are more resilient against climate change.

The stories below are just a small sample of this work.

For more information, visit our website on www.livelearn.org or find us on social media at [@livelearninternational](https://twitter.com/livelearninternational).



Hope and smiles in rural Cambodia



About 89 kilometres from Siem Reap city is the Varin district, home to nearly 50,000 people across its 45 villages. Nearly 90% of these are traditional farmers whose lives are dependent on agriculture.

Despite the prevalence of agriculture, there was little knowledge about climate-smart agriculture, financial management and water management. Additionally, poor access to produce markets and water left these communities vulnerable to economic fluctuations, climate change and gender inequality.

The Rural Water and Agriculture Infrastructure Initiative (RAW-II) aimed at addressing these challenges. Running from 2018 until its conclusion in June 2021, this project sought to improve resilience in crop production and water accessibility and enable better access and understanding of finance and markets. With funding from The Charitable Foundation, Live & Learn Cambodia worked alongside the Water Farmer User Group, Provincial Department of Water Resource and Meteorology, the Varin district administrative and the communities themselves to reach these goals.

“Live & Learn Cambodia has a high commitment to improving remote community living conditions in rural areas,” Socheath Sou, Live & Learn Cambodia Country Manager, said. “We promote social engagement and inclusiveness based on transparent and accountable approaches.”

Over the past year, the outbreak of COVID-19 posed a significant challenge for the project’s completion, while severe weather events such as flash flooding also proved difficult. However, these challenges did not stop the project from making considerable progress.

The local Ang Krapeu Pram irrigation system was rehabilitated to improve local resilience in crop production and water accessibility. This had been significantly damaged in 1984 by intense flooding and left abandoned since. Rebuilding this system to include a dam with a spillway, water gates, and a 2,454m long canal has not only improved water security for thousands of farmers, but has also helped reduce poverty in the district, while a road along either side of the canal has provided a better transport option for hundreds of people, particularly women and students, shortening their travel times.

The past year has also seen a continuation of the savings groups (SHGs) set up by Live & Learn Cambodia to teach locals, predominantly women, about managing their finances and savings. This has resulted in many people reducing their debts, with 19 of the 44 savings group members no longer seeking loans from microfinance institutes or community loaners.

“I appreciate being an SHG member,” said one participant. “Now, animal feeding is an alternative income for our family. I feel confident in improving my family’s living conditions.”



Twenty-nine farmers, 17 of whom were women, in Varin district have also seen their produce become tastier, more water-efficient and bringing in better incomes due to practical training delivered by Live & Learn Cambodia. Focusing on practical skills and knowledge like compost making, water and land management, promoting their products and generating income, this training has seen significant benefits for local farmers.

“My daily income from my home garden gets better,” said one farmer. “Local users love buying my vegetables due to being tastier than before. I have big thanks to Live & Learn Cambodia that has improved my knowledge of soil and land.”

Live & Learn also helped establish a local produce market, giving the community a place to promote their products and generate income. Though this has seen some disruption from COVID-19, the RAW-II has still successfully responded to the community’s needs across the past year, improving living conditions, water management, local economic chains and empowering women. As the Varin district administrative said, Live & Learn Cambodia’s work has brought “new hope and smiles” to the area, building up more resilience across the district.



“My daily income from my home garden gets better. I have increased practical techniques in soil and water management for farming land. I appreciate the improvement of cropping, applying climate resilience methods that I got from the training. I have big thanks to Live & Learn Cambodia that has improved my knowledge of soil and land.”

Project beneficiary



“Live & Learn Cambodia tackles development challenges by empowering communities to improve resilience through the adoption of innovative solutions and advocates for sustainable and appropriate solutions to address local community needs and priorities. Through more than 15 years of working experience with grass-root communities, we have worked and supported various communities in many aspects including sustainable livelihood and environment through resilient agriculture, micro-business development, gender, climate change adaptation, renewable energies, water sanitation and hygiene, and nutrition.”

LLC Country Manager Socheath Sou



Standing with Fiji in the face of disaster

In December 2020, Fiji was hit by Tropical Cyclone Yasa, one of the strongest cyclones ever recorded in the region. The category 5 cyclone affected Fiji's largest islands of Vanua Levu and Viti Levu as well as many smaller ones, causing widespread flooding and damage to buildings, villages and crops. Tragically, four lives were lost.

Live & Learn Fiji worked hard throughout the impacts of TC Yasa to reduce the devastation as much as possible. Live & Learn Fiji not only helped the affected communities recover from Yasa, but also assisted in building resilience before it made landfall.

"We cannot stop natural disasters, but we can arm ourselves with knowledge. Preparedness, when properly pursued, is a way of life, not a sudden, spectacular program."

With funding support from the Australian Government under the Disaster READY program, Live & Learn Fiji supported the Fiji National Disaster Management Office in delivering 11 emergency operation trainings around Fiji, with one being conducted in Labasa just a week before TC Yasa hit the country. Northern Commissioner Mr Uraia Rainima said the training was relevant and helped ensure his team was well prepared during their response to TC Yasa.

Live & Learn Fiji was just as committed to helping in the aftermath of Tropical Cyclone Yasa. Staff and volunteers prepared and deployed 450 WASH kits and 450 tarpaulins to 12 informal settlements and 11 villages across Cakaudrove, Bua and Macuata. With funding support from the New Zealand Government, START and ECHO, this assistance was distributed to the households most affected by Yasa.

Extensive assistance was delivered especially to Nakalou Village, one of the worst-affected areas. TC Yasa was Nakalou Village's first encounter with a category 5 cyclone and the villagers sought refuge in a community hall and some of the stronger village homes, as identified by the village headman, throughout the storm. The roof was blown off one of these houses while 22 people sheltered inside.

Of the 86 homes in Nakalou Village, 57 homes were partially damaged while 18 were destroyed. As the villagers began their relief and rebuilding efforts, Live & Learn Fiji, in partnership with CARE Australia, visited Nakalou in early January 2021 to deliver 75 hygiene and dignity kits and conduct awareness sessions on the prevention of Leptospirosis, Typhoid, Dengue and Diarrhoea (LTDD) to reduce the chance of outbreaks, which are common after natural disasters. Further actions such as 'Build Back Safer' training and distribution of seeds, tools and agricultural training have also been delivered to help the hard-hit community of Nakalou Village recover stronger from TC Yasa.



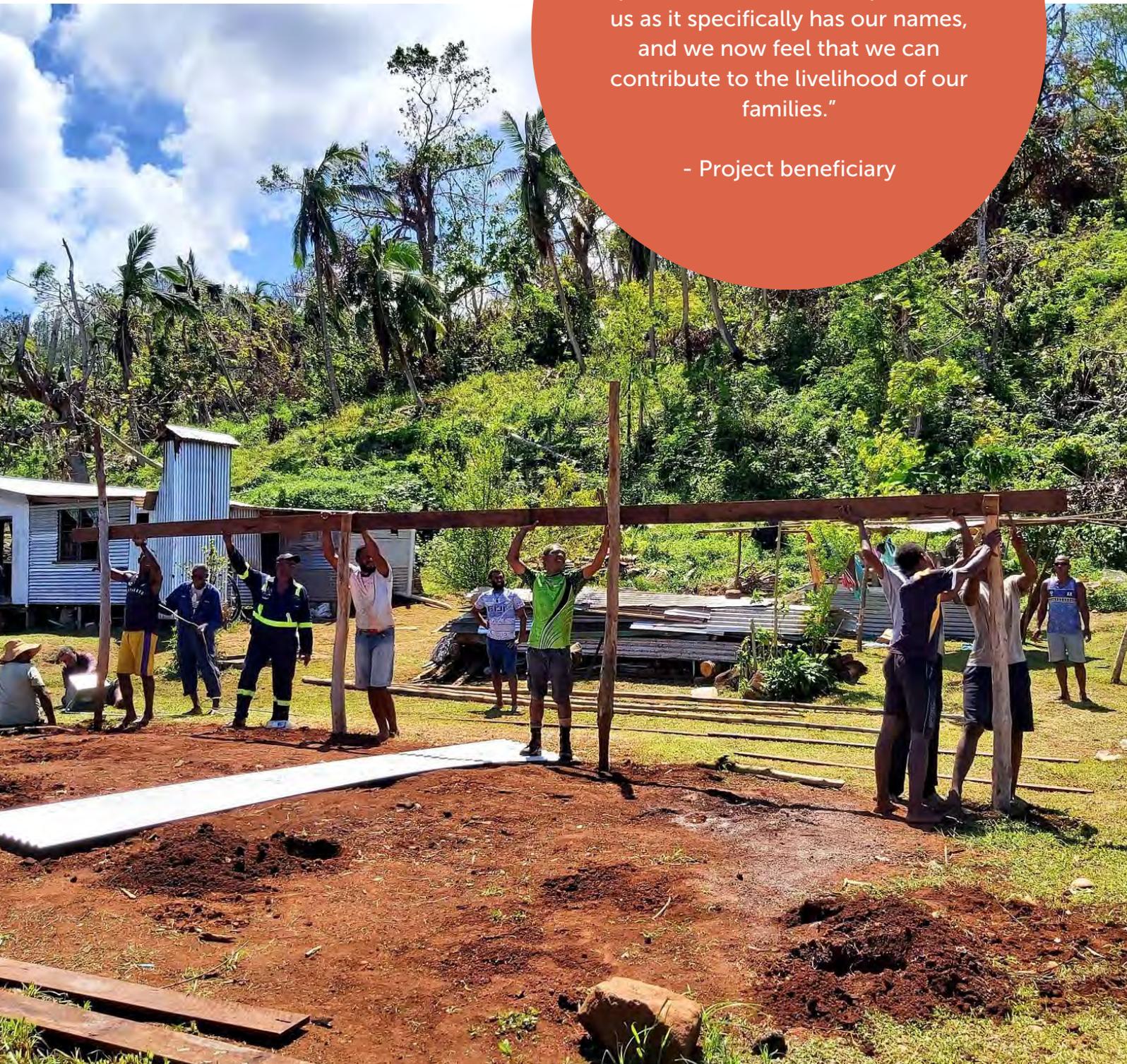
"The people of Nakalou Village are a shining example of the spirit of solidarity and communal goodwill that still shapes much of Fijian society today," the Live & Learn Fiji team have said.

"Fijians have shown great initiative and resilience in coming together to help those in need. Live & Learn Fiji are proud to be supporting both local and national relief efforts."



"We are thankful to Live and Learn for what we have received. This particular assistance is special to us as it specifically has our names, and we now feel that we can contribute to the livelihood of our families."

- Project beneficiary







Encouraging community growth: Food Futures in Kiribati

In Kiribati, 41% of the population experience moderate or severe levels of food insecurity. Population pressures, limited land availability, poor soil quality and the impacts of climate change make growing healthy crops difficult to achieve. In many parts of the country this has led to a dependence on imported foods, a situation made worse due to COVID-19 restrictions, which limit imports and delay the arrival of cargo ships.

In May 2021, the Food Futures Project officially launched in North Tarawa with a ribbon cutting ceremony from the High Commissioner of Kiribati. Funded by the Australian Department of Foreign Affairs and Trade, the project will build the capacity of vulnerable Kiribati communities by ensuring food security under the conditions of climate change. Through the use of Biofilta Foodcubes, communities can increase their production and access to fresh and nutritious fruits and vegetables.

Foodcubes are large plastic containers, designed to be water efficient and keep soil moist over a long period of time. By growing crops in Foodcubes communities will no longer need to rely on the use of poor soil, which is difficult and time consuming to work with. Through the distribution of 90 Foodcubes over 700 farmers have been reached in North Tarawa and Abaiang. One Foodcube recipient said that, "From our point of view the Foodcube is very easy for us to use and it takes us less time to water."

A greenhouse and plant nursery has been established by the project team to ensure there is always a steady supply of seedlings for community use. Community discussions highlighted that people are worried about food security and a lack of personal gardening skills to support themselves and their families. Workshops conducted by project staff have taught stakeholders and community members essential agriculture skills, such as compost making, plant care, pest control, how to sow seeds, transplanting, mulching and preserving seeds.

"This project is important because it provides a solution to our ongoing challenge of poor soil," says Pelenise Alofa, Live & Learn Kiribati Country Manager. Through the promotion of growing traditional and indigenous food crops, Kiribati can work towards building resilience to climate change and preventing future food shortages from arising.

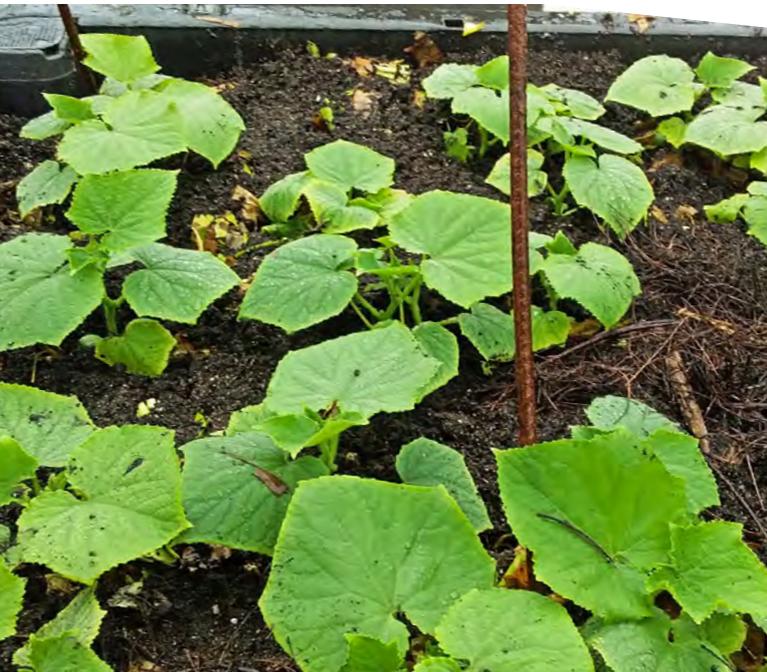






“
“
“Thank you for the Foodcubes.
They’re very easy to use.
Thank you!”

Project beneficiary





Trash on treasured islands: Improving waste management in the Maldives

Thilafushi Island in the Maldives was once a beautiful lagoon, not far from the capital of Malé. But with waste management a major issue in the Maldives, the lagoon was turned into an artificial island to serve as a site for landfill and other waste disposal operations. Receiving waste from Malé and 34 other islands – or around half the population of the country – Thilafushi has become a hazardous and environmentally damaging site. Mixed rubbish burns in the open, creating dangerous smoke, while food waste is often thrown into the sea.

But Live & Learn Maldives is playing a major role in addressing this issue through their Public Awareness and Capacity Building Programme, a component of the Greater Malé Environmental Management and Waste Management Project. With the broader project working on improving the country's waste management and transfer systems, the Live & Learn team is focusing on changing the behaviour of the people.

"The target is to educate and empower people on how to better manage waste," Zameela Ahmed, Country Manager of Live & Learn Maldives, said. "This project is very challenging and very exciting for us.

"We believe this will bring a big transformational change to waste management in the Maldives."

In the last year, Zameela and her team have conducted a Rapid Assessment of Perceptions and Capacity study, consulting with island councils, householders and representatives from schools and businesses to understand attitudes towards waste management. More than 700 people were interviewed and surveyed, with the results being published as a report that shows strong support for recycling and waste segregation processes, as well as interest in composting food waste.

The team has also been developing a website, which will soon be published, and different training programs to continue spreading awareness and teaching the people of the Maldives not only the importance of proper waste management, but how to do it.

"Some islands have new equipment and systems people need to be aware of," Zameela said. "Most of their waste is compostable, but people need to know how. We want to put the message forward that composting is important – we can make waste a valuable resource.

"Behaviour change is the main theme and underlying approach of this project."

After all the incredible work Live & Learn Maldives have put into the first stage of the project across the past year, Zameela and her team are hopeful for what it will mean for their country to not only improve the systems on Thilafushi, but all across the Maldives.



"This will have a very high positive impact, especially on public health," Zameela said. "We have been suffering from this smoke for a long time and have been burning waste in the outer islands as well, which are much smaller, so the impact is much larger.

"We find litter on roads and beaches, and we will see a major improvement to littering as well. Our health will improve and so will the environment.

"It is an honour for us to work on this project – we see a big change happening."

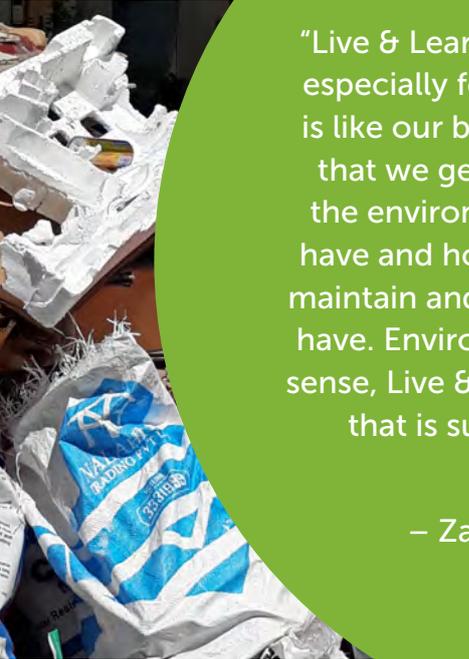




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“Live & Learn is doing really wonderful work, especially for our country. The environment is like our bread and butter. It’s really crucial that we get the community to learn about the environment and the problems that we have and how to manage it better so we can maintain and sustain the environment that we have. Environmental education is key. In that sense, Live & Learn is doing really crucial work that is supporting the whole country.”

– Zameela, Country Manager,
Live & Learn Maldives





**Teaching,
not teasing:
Managing
menstrual health
in PNG schools**



Managing menstruation effectively and with dignity can be challenging for women and girls in Papua New Guinea, where periods remain widely stigmatised. Despite being a healthy and normal process, attitudes and beliefs about menstruation can limit the ability of women and girls to fully participate in community life, employment and education.

Many adolescent girls and boys lack comprehensive knowledge about menstruation, but Live & Learn Papua New Guinea is working to change that. The WASH in Schools program is targeting 15 primary schools in New Ireland Province to improve hygiene education. A critical component of this program is improving attitudes and practices surrounding menstrual health.

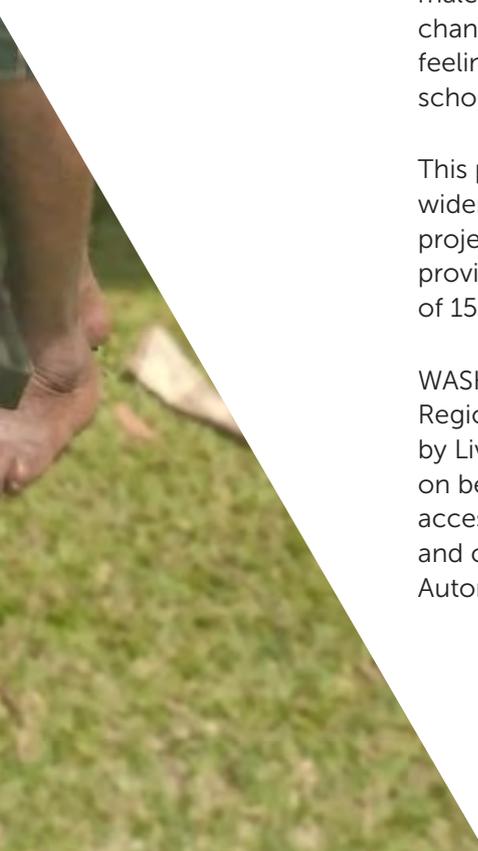
Project staff have trained 276 male and female teachers, and provided resources developed by Live & Learn to help normalise the management of periods at school as natural and healthy. Lesson plans on menstrual health, along with other positive hygiene practices, are now being delivered as a core subject named 'Health Hygiene'. Health Hygiene is now taught three times a week and is taken as seriously as other core subjects.

"Menstrual health in the Papua New Guinea context is very difficult, but with the dedication, knowledge and expertise from Live & Learn PNG staff, teacher trainings have empowered local teachers to reduce stigma and shame around menstruation," Commented project staff.

As a result of the availability of reusable menstrual pads and added support from teachers, more girls are attending classes and there has been an increase in their attendance at school. Teachers have said they notice the difference in their male students, whose attitudes and behaviour surrounding menstrual health has changed over time. Boys no longer tease girls, which has led to female students feeling more comfortable to approach teachers for menstrual pads and stay at school during their menstrual cycles.

This project has benefited 6622 students, who are now able to advocate in their wider community. As well as focus on education materials, the WASH in Schools project is also responsible for improving school infrastructure, including the provision of 15 new water tanks, 15 new handwashing stations and the upgrade of 15 sanitation facilities.

WASH in Schools is a component of the larger Resilient WASH in the Islands Region of Papua New Guinea Program, an Australian aid initiative implemented by Live & Learn Environmental Education in partnership with Plan International on behalf of the Australian Government. The goal of the project is to improve access to safe and secure water, improve health, strengthen gender equality and create greater wellbeing for people in New Ireland Province and the Autonomous Region of Bougainville in Papua New Guinea.





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“Since the inception of Live & Learn programs, I would say that student and teacher participation is 100%. It has driven the confidence of students to take pride, and has also contributed to gender participation between students, especially the boys... the programs that we run here also influence the community at large. [The students] become agents of change.”

– Project beneficiary, PNG







The importance of empowering individuals in the Solomon Islands

In the Solomon Islands, each village is unique, different even from a neighbouring village. This diversity affects how people access and use water. People living in rural Solomon Islands have some of the lowest levels of access to clean water and adequate sanitation in the world. Open defecation is widespread and water sources and quality are affected by climate change, natural disasters and human activities that impact the environment, such as logging.

Live & Learn Solomon Islands is promoting community leadership as a driver of change to improve water, sanitation and hygiene (WASH) systems in rural communities. The New Times, New Targets Project focuses on water safety and improvement planning and allows the community to be actively involved in raising issues on water management.

Implemented in West and North-West Guadalcanal, in partnership with Plan International, the project supports capacity building and technical training for community members and leaders. The response from the participants has been positive and there is a desire to share responsibilities and ownership of WASH changes.

Funded by the Australian Department of Foreign Affairs and Trade, the project has conducted facilitation sessions with community members and leaders to empower men and women to share their experiences about WASH. These sessions provide a space where individuals can share their knowledge and involve all members of the community in decision making.

Enif Petsakibo, Senior WASH Officer for the New Times, New Targets Program, says, "We have witnessed that when communities take on the necessary leadership, it provides an avenue for issues relating to water to be shared and brings about collective actions."

The village of Verakoukou, in Shalu ward, Western Guadalcanal, is one such community. Through their hard work and dedication, with support from the New Times, New Targets project, they were able to install their first toilet, eradicating open defecation practices. On 19 November, World Toilet Day, they celebrated the official recognition of their 'No Open Defecation' status. Verakoukou is the first village in the ward to achieve this status.

Australian High Commissioner, Dr Lachlan Strahan, travelled to Verakoukou to congratulate the community. He commented that the village's community-based approach had been one of the most effective parts of achieving its 'No Open Defecation' status.

"Members of the Verakoukou community have built their own toilets for all households, making sure that the basic, daily needs of everyone, including women and girls, are being met," Dr Strahan said. "They should be proud of this achievement."



Safe and accessible WASH is essential for healthy and resilient communities. Strong sanitation and hygiene practices are a key part of preventing the spread of disease and viruses, including diarrhoeal diseases and COVID-19.

Enif says, "If we encourage and value the importance of empowering individuals, male and female, who have the potential to lead, we will transform WASH in different dimensions."





Kaleko SteiFree is a package of values that focus strongly and mainly on menstrual and health and hygiene. Kaleko SteiFree is also interested in empowering women and girls in the Solomon Islands. The Improving Menstrual Health Guide, created with Live & Learn, I think for the first time in the history of the Solomon Islands, is a roadmap for practitioners like us. We now have a tool or a vehicle where we can get into the community with a coordinated kind of lens. It provides a huge hope for us, I think that's one of the amazing things about this guide."

Mary Elizabeth Ramosaea, the Business Director for Kaleko SteiFree Solomon Islands, project partner for the New Times, New Targets Project.





Water where it's needed most: Resilient WASH in Tonga

In April 2020, Tropical Cyclone Harold made landfall in Tonga, wreaking substantial damage to communities and villages countrywide. In the 18 months prior, Live & Learn Tonga had been working on Phase I of the WASH Recovery and Resilience program, funded by the Australian Government, designed to strengthen local WASH systems and skills across the country.

Following the successful implementation of Phase I, Phase II began as part of the recovery from TC Harold, working with the communities in the districts of Tatakamotonga, Lapaha, Kolovai, 'Eua Motu'a and 'Eua Fo'ou to improve the health and resilience of those communities in water, sanitation and hygiene.

The small village of Houma, one of 15 communities on 'Eua, was in particular need of help. The village had no water, meaning people needed to carry large containers to fill them up at the next village, which is far away. Because of this, the school was looking likely to be closed. This would have forced students to either travel to the next village for their schooling or do home education – or no education at all.

However, Live & Learn Tonga prevented this closure. They provided two 13,000L water tanks to the school and another 3,000L tank to the village, helping not only the students of Houma, but also teachers and the wider community.

"We adapted the project and our approach to the needs of the situation," Peni Havea, Country Manager for Live & Learn Tonga, said. "Our work will serve the community and the school."

The team then began work in the Eastern Division, working with the most vulnerable households to repair and maintain their infrastructure, fixing toilets, showers and hand-basins, while upgrading old or broken systems with new, functional ones. They continued this work in the Western Division, as well as implementing their WASH in Schools project, building handwashing stations, giving plumbing training to teachers, encouraging handwashing and creating WASH clubs and action plans for schools.

The scale of the Live & Learn Tonga team's work is incredible: WASH facilities improved in 11 community halls, 150 water tanks installed, and help provided to 10 schools and more than 1000 households overall. Their efforts have earned them a strong reputation in Tonga for their high standards and good outcomes.

Peni says the Tonga team is proud to do this work, which is always aimed at helping the most vulnerable people and communities – particularly in the aftermath of a disaster like TC Harold.

"It's our community and we work together with them," he said. "People have been really appreciative of our help."



"We cannot provide for everyone, but we make our project beneficiaries very happy, and we make them feel secure."

Peni says he and the Live & Learn Tonga team look forward to continuing this work across the country as they continue to try and help as many people as they can.

"What I really want is to extend our work to unfortunate and disadvantaged people who are not lucky enough to currently be part of this project," Peni said. "There are still needs to be met."





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“We are so appreciative and grateful for the work that Live & Learn Tonga anticipated on us. The work that we do here helps to improve the physical, mental and spiritually well-being of the people in our country. And that’s the difference we want to make in people’s lives. We wanted to make them happy. Happiness is vital because what we know in Tonga is that when people are happy, they will do anything to ensure they will get it.

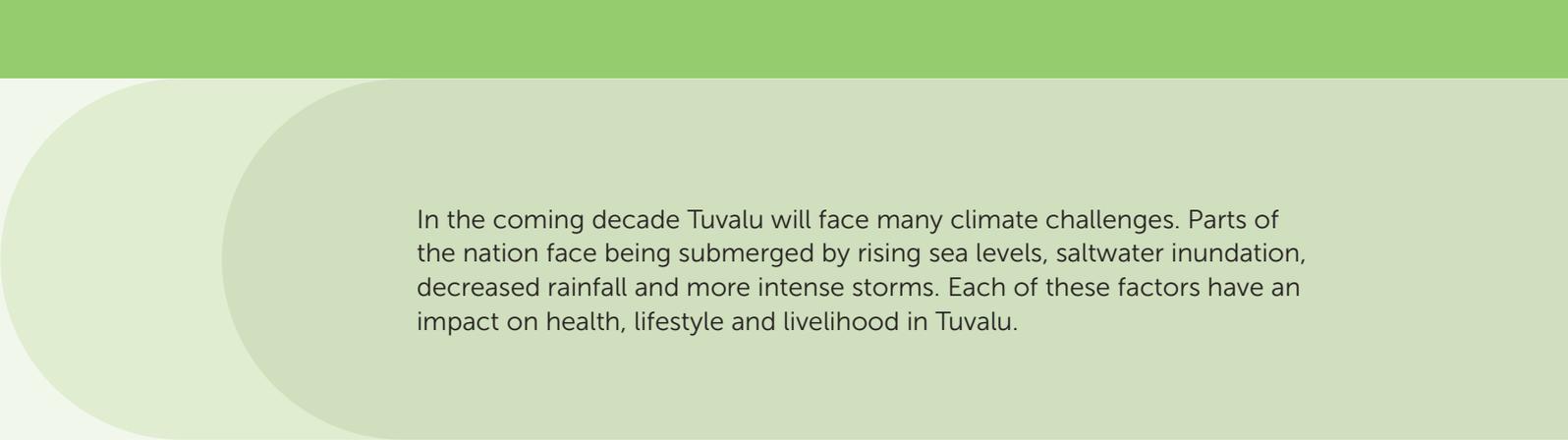
*Peni, Country Manager,
Live & Learn Tonga*





Providing solutions to climate challenges in Tuvalu

Australian Aid 



In the coming decade Tuvalu will face many climate challenges. Parts of the nation face being submerged by rising sea levels, saltwater inundation, decreased rainfall and more intense storms. Each of these factors have an impact on health, lifestyle and livelihood in Tuvalu.

Coupled with the issue of poor soil and limited land, traditional gardening practices have become more difficult to maintain. A lack of consistent access to safe nutritious food can lead to high rates of non-communicable diseases, like diabetes, heart disease and cancer.

The Food Futures Project has become increasingly important to the people of Tuvalu, as the benefits are essential to maintaining food security. Supported by the Australian Department of Foreign Affairs and Trade, the project empowers communities to grow their own fruits and vegetables. This can be done through the use of community gardens or at their own homes.

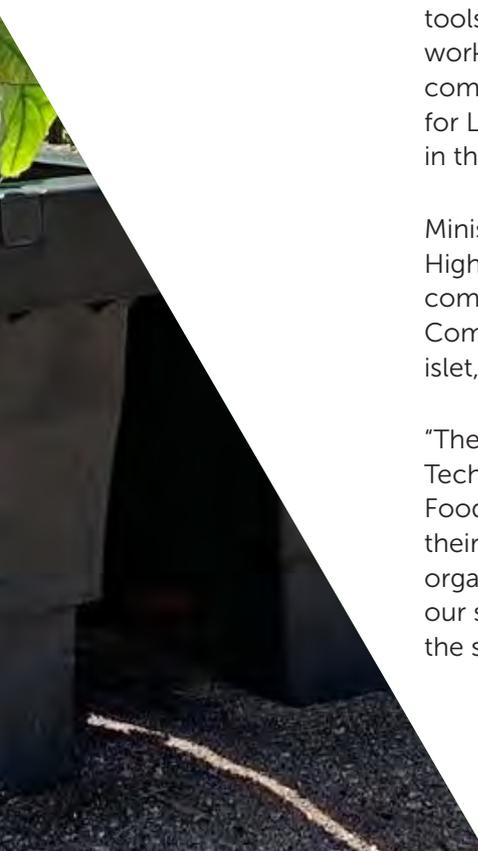
After huge success in Phase I, Phase II of the project has expanded its reach to the outer islands of Nukufetau and Nukulaelae. A key aspect of this project is the use of Biofilta Foodcubes. Foodcubes are portable wicking garden beds designed for use in atoll nations. Over 228 Foodcubes have been distributed in garden sites and homes in Nukufetau, Nukulaelae and the capital of Funafuti in Phase II of the project.

Tausese Lotonu, a Nukulaelae resident, said, "These Foodcubes are very useful to me. It eased the planting of my crops because of the limited land space we have. We can easily plant and grow what we need."

Once the Foodcubes are installed, project staff assist communities by providing tools and shade cloth. Training is conducted with local councils, agriculture workers and community members on agriculture skills. This includes making compost, planting seeds and harvesting crops in the Foodcubes. It is a priority for Live & Learn Tuvalu to stay engaged and connected with people participating in the project, to make sure that they feel supported.

Minister of Local Government and Agriculture, Hon Katepu Laoi, and Australian High Commissioner, Karyn Murray, made a trip to one of Live & Learn Tuvalu's community garden sites in October 2020. Both the Minister and High Commissioner were impressed with the progress of the project site on Funafala islet, situated off the capital of Funafuti.

"There is so much interest in Foodcube cultivation," says Itaia Lausaveve, Chief Technical Advisor for Live & Learn Tuvalu. "So many people are asking us for Foodcubes, that we are getting requests almost every day." The team believes their success is partly due to the promotion of the project's activities and the organisation's excellent reputation in the country. As the project continues, "All our support now goes towards maintaining contact, monitoring and supporting the success of Foodcube owners."









Ecotourism in Nusumetu: Following in their ancestors' footsteps

The ancestors of the people of Nusumetu Protected Area have said that while their people protect the land, the land will care for them in return, providing good livelihoods for the indigenous people of the area. But while the people of Nusumetu depend on the local ecosystem for their livelihoods, their way of life has been under threat.

Nusumetu Protected Area is a unique and beautiful place in Green Hill on North Tanna, with more than 100 hectares of lowland and mountain forests which are home to many of Vanuatu's endemic bird and plant species. Across much of Vanuatu, land-use changes like logging or agriculture have threatened such places and have changed the way indigenous people live, while climate change and environmental pressures put strain on biodiversity. With little opportunity for work or income in the Nusumetu area, the local people have said they wanted to see an improvement in the area so they could continue to protect it as their ancestors did.

"Local people feel that it is very important to protect this area," says Serge Warakar of Live & Learn Vanuatu "because it is important for all of them. They depend entirely on this ecosystem.

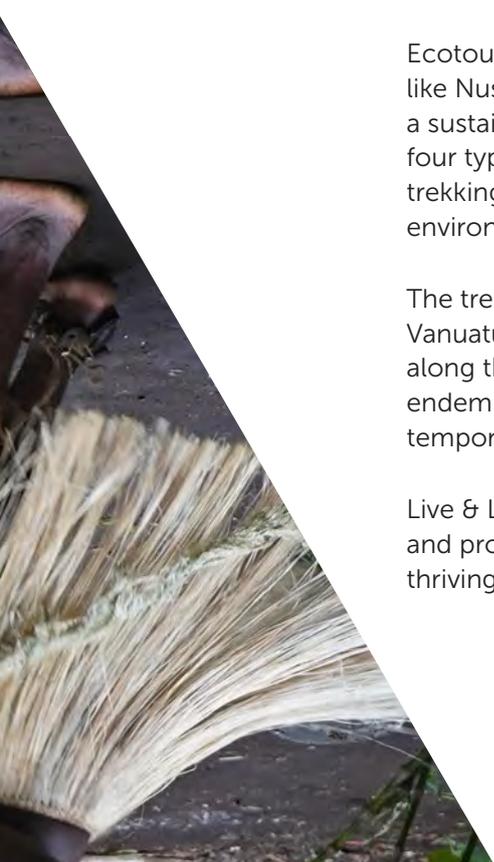
"It provides the needs of the community, environmentally, culturally, economically and socially. The local indigenous people believe if they continue to protect this area, then this place will become a magical site in Vanuatu."

Live & Learn Vanuatu came to Nusumetu two years ago and began working with these local people. With funding from the Critical Ecosystems Partnership Facility, and working alongside other organisations and the community, Live & Learn Vanuatu began developing a new source of livelihood for them: the Nusumetu Ecotourism Tour.

Ecotourism focuses on the preservation and reviving of nature, essential in places like Nusumetu where the people rely on the local environment, while creating a sustainable source of income. The Nusumetu Ecotourism project includes four types of ecotourism: agrotourism, community development tourism, trekking trips and eco-lodges, allowing visitors to interact with the people and environment of the region in a variety of ways.

The trekking tour is a standout attraction, with the tour developed by Live & Learn Vanuatu's ecotourism specialist from Millennium Cave Tours. It stops at 12 sites along the way to view cultural sites, natural wonders such as the volcano, and the endemic local palm trees – an important traditional plant which can be used as temporary shelter and a food source after a disaster.

Live & Learn Vanuatu has developed this program alongside the local people and provided them with the necessary training to run Nusumetu Ecotourism as a thriving business. So far, the results have been very encouraging.

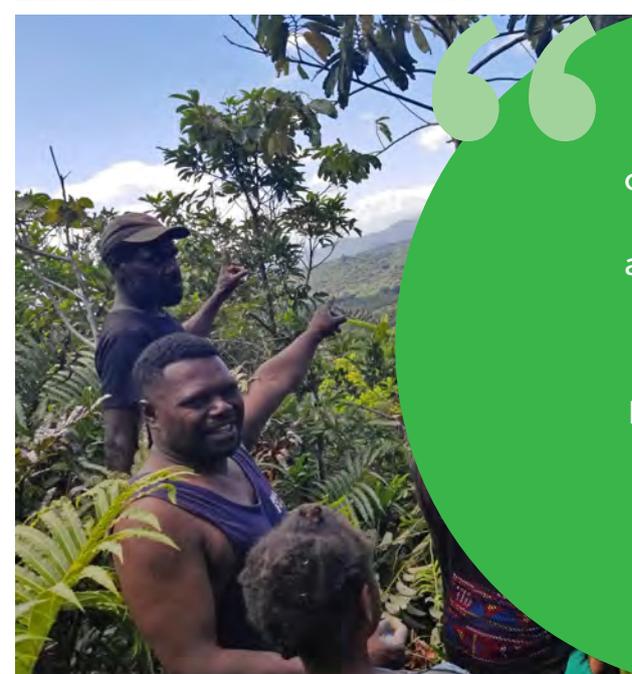


Since their inaugural tour on 7 May, the project has seen full tours almost every day. With more than 20 tour guides now trained, the project is providing employment for many local people and is also changing attitudes towards the environment, with active nature restoration work being done and people seeing many more trees growing back, including the palms endemic to the area. The community has taken on ownership and leadership of the project, encouraging the initiative towards conservation passed down for so long by their ancestors.

“The community is so happy,” said Glarinda, the manager of the Live & Learn Vanuatu office. “People’s attitudes towards the environment have changed; it’s encouraging people to care about the environment and be involved in restoration. Business is now running very smoothly.”

While preparing for the return of international tourists, the community is continuing to discuss how to spend the profits they are making, creating a list of development needs they would like to implement to help them care for the land while the land provides for them – just as their ancestors said.





“We see how our communities are being impacted by all the disasters, and we want to help our people and our communities build resilience so that whatever they face they are strong, and they can continue to adapt and manage themselves in these situations and be able to move on with life.”

In everything we do, we educate and empower people so that they continue to be strong in the different disasters and situations.”

Glarinda, Country Manager, Live & Learn Vanuatu





NGÁCH 20/125
ĐƯỜNG PHÚ NHAI

HỘI LƯU HỌC BÁC TỬ LIÊM
HỘI LƯU PHƯƠNG MINH KHAI
CÁC TRINH
HỘI TỰ QUẢN

Clearing the air: Tackling pollution in Vietnam



Air pollution is one of the most significant risks to public health in the world. According to the World Health Organisation, air pollution causes around 4.2 million premature deaths each year, with the greatest toll being taken in countries in the western Pacific and Southeast Asia - such as Vietnam.

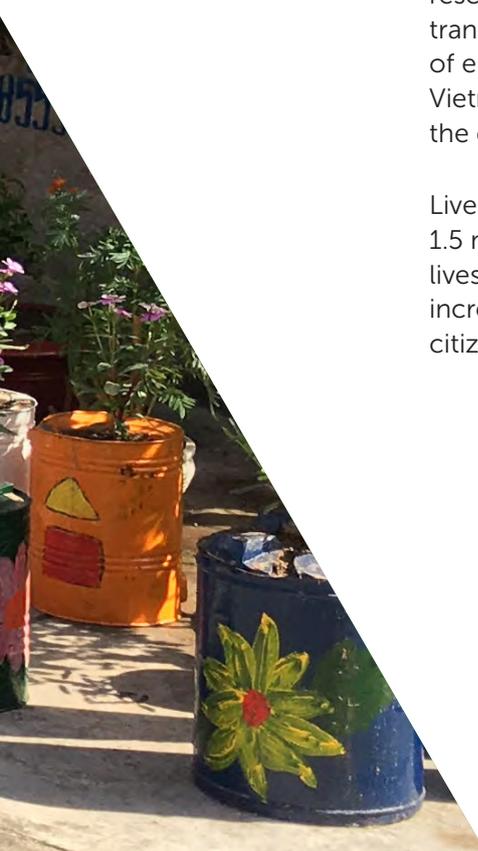
In major urban areas and industrialised cities like Hanoi and Ho Chi Minh City, air pollution has become an increasingly serious risk for Vietnam over the last decade. The major causes of this are emissions from vehicles, power generation for homes and industry, waste incineration and agriculture.

But over the past year, Live & Learn Vietnam has been working to combat the rising trend of air pollution. Through the Collective Action for Clean Air project (CAfCA), the Vietnam team has been organising collective action by local people and organisations to address pollution and take responsibility for solving this environmental issue. Working with the government, private sector, community organisations and other groups, the project is promoting and supporting knowledge sharing and networking activities. It aims to foster cooperation between the various stakeholders and encourages engagement with science to advocate for better environmental policies.

The Collective Action for Clean Air project has comprised several different activities to achieve its goal. This year, Live & Learn Vietnam have added 29 new partners to their Clean Air Network, bringing the network to a total of 132 members. Their regular events have drawn the attention and participation of hundreds of experts, government representatives and media outlets.

CAfCA has also supported clean air initiatives from local actors like NGOs, research organisations and community groups on providing cleaner transportation; limiting the open burning of waste and rice-straw, a huge source of emissions; and eliminating beehive cookstoves, a common type of stove in Vietnam which the WHO estimates to cause around 45,000 deaths each year in the country. Live & Learn mobilised over 31 partners to support this work.

Live & Learn Vietnam's awareness raising activities have also reached more than 1.5 million people of which two-thirds have since adopted green actions in their lives. CAfCA has also collaborated with researchers and air-sensor providers to increase public access to and awareness of air quality monitoring, encouraging citizen science which has since helped track Vietnam's air pollution.



These activities have also flowed into more environmentally friendly policy making, with the primary achievements being limitations on rice-straw opening burning and the elimination of coal beehive cookstoves in Hanoi.

Air pollution is still a significant issue in Vietnam and worldwide. But, with the project still set to run until 2022, the Collective Action for Clean Air project is already making a significant impact on the health of both people and the environment in Vietnam.

The Collective Action for Clean Air project is funded by the US Agency for International Development and implemented by Live & Learn Vietnam.





Finances

LIVE & LEARN ENVIRONMENTAL EDUCATION INCORPORATED		
ABN : 44 945 150 299		
SUMMARY INCOME STATEMENT FOR THE YEAR ENDED 30 JUNE 2021		
	2021	2020
	\$	\$
REVENUE		
Donations and gifts		
Monetary	9,838	77,815
Non - monetary		
Bequests and Legacies		
Grants		
Department of Foreign Affairs and Trade	2,254,886	2,671,879
Other Australian Grants	15,811	175,607
Overseas Grants	1,803,128	803,561
Commercial Activities Income		
Investment income	1,259	2,332
Other Income		
Consultancy & Other fee	35,675	49,590
Government Grant (Jobkeepr and Cash Flow boost)	199,500	95,000
Revenue for International Political or Religious Adherence Promotion Programs		
TOTAL REVENUE	4,320,098	3,875,783
EXPENDITURE		
International Aid and Developments Programs		
International programs		
Funds to international projects	2,889,765	2,405,308
Program support costs	920,668	892,023
Community education	68,794	4,719
Fundraising costs		
Public	7,590	29,001
Government, multilateral and private		
Accountability and Administration	150,213	379,524
Non - Monetary Expenditure		
Total International Aid and Development Programs Expenditure	4,037,030	3,710,575
International Political or Religious Adherence Promotion Programs Expenditure	-	-
Domestic Programs Expenditure		-
Commercial Activities Expenditure		
Other Expenditure		
TOTAL EXPENDITURE	4,037,030	3,710,575
SURPLUS/(DEFICIT)	283,067	165,208
Other Comprehensive Income		
TOTAL COMPREHENSIVE INCOME	283,067	165,208

LIVE & LEARN ENVIRONMENTAL EDUCATION INCORPORATED		
ABN : 44 945 150 299		
SUMMARY BALANCE SHEET AS AT 30 JUNE 2021		
	2021	2020
	\$	\$
Assets		
Current Assets		
Cash and cash equivalents	3,647,812	1,269,256
Trade and other receivables	402,765	369,875
Inventories		
Assets held for sale		
Other financial assets		
Total Current Assets	4,050,577	1,639,132
Non-current Assets		
Trade and other receivables		
Other financial assets		
Property, plant and equipment	1,704	1,308
Investment property		
Intangibles		
Other non - current assets		
Investments in associates	18,625	520
Total Non-Current Assets	20,329	1,828
Total Assets	4,070,906	1,640,959
Liabilities		
Current Liabilities		
Trade & Other Payables	28,049	30,263
Borrowings		
Current tax liabilities	85,597	91,547
Other financial liabilities	3,202,343	1,082,476
Provisions	154,587	121,171
Other		
Total Current Liabilities	3,470,576	1,325,457
Non-current Liabilities		
Borrowings		
Other financial liabilities		
Provisions for Employee Benefits	12,109	10,348
Other		
Total Non-Current Liabilities	12,109	10,348
Total Liabilities	3,482,685	1,335,805
Net Assets	588,221	305,154
Equity		
Reserves		
Retained Earnings	588,221	305,154
Total Equity	588,221	305,154

NOTE 1 The financial report supplied to ACFID has been derived from the audited annual accounts of Live & Learn Environmental Education Inc. as set out in the annual report for the year ended 30/06/2021

NOTE 2 The Summary Financial Reports have been prepared in accordance with the requirements set out in the ACFID Code of Conduct. For further information on the Code please refer to the ACFID Code of Conduct Implementation Guidance available at www.acfid.asn.au

NOTE 3 A copy of the full financial report is available upon request by emailing enquiries@livelearn.org or telephoning 03 9650 1291.

Live & Learn Environmental Education Inc.

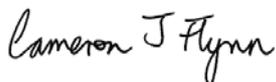
ABN: 44 945 150 299

Auditor's Independence Declaration under Section 60-40 of the Australian Charities and Not-for-profits Commission Act 2012 to the Trustees of Live & Learn Environmental Education Inc.

I declare that, to the best of my knowledge and belief, during the year ended 30 June 2021, there have been:

- (i) no contraventions of the auditor independence requirements as set out in section 60-40 of the *Australian Charities and Not-for-profits Commission Act 2012* in relation to the audit; and
- (ii) no contraventions of any applicable code of professional conduct in relation to the audit.

ACCRU MELBOURNE (AUDIT) PTY LTD



C J FLYNN
Director

19 November 2021

50 Camberwell Road
Hawthorn East VIC 3123

Live & Learn Environmental Education Inc.

ABN: 44 945 150 299

Board of Trustees' Declaration

The committee has determined that the Association is not a reporting entity and that this special purpose financial report should be prepared in accordance with the accounting policies outlined in Note 1 to the financial statements.

The Board of Trustees declare that:

1. The financial statements and notes, as set out on pages 3 to 12, present fairly the financial position of Live & Learn Environmental Education Inc. as at 30 June 2021 and its performance for the year ended on that date in accordance with the accounting policies described in Note 1 of the financial statements.
2. In the Board of Trustees' opinion, there are reasonable grounds to believe that Live & Learn Environmental Education Inc. will be able to pay its debts as and when they fall due.

This declaration is made in accordance with a resolution of the Board of Trustees and is signed for and on behalf of the Board of Trustees' by:

Trustee
Christian Nielsen

Trustee
Radha Cumarasamy

Dated 19 November 2021

Live & Learn Environmental Education Inc.

Independent Audit Report to the members of Live & Learn Environmental Education Inc.

Report on the Audit of the Financial Report

Opinion

We have audited the accompanying financial report, being a special purpose financial report of Live & Learn Environmental Education Inc. (the Association), which comprises the statement of financial position as at 30 June 2021, the statement of profit or loss, the statement of changes in equity and the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, and the board of trustees' declaration.

In our opinion, the accompanying financial report of the Association for the year ended 30 June 2021 is prepared, in all material respects, in accordance with the Australian Charities and Not-for-profits Act 2012, including:

- (i) giving true and fair view of the Association's financial position as at 30 June 2021 and of its financial performance for the year then ended; and
- (ii) complying with Australian Accounting Standards to the extent described in Note 1 and the *Australian Charities and Not-for-profits Commission Regulation 2013*.

Basis for Opinion

We conducted our audit in accordance with Australian Auditing Standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Report* section of our report. We are independent of the Association in accordance with the auditor independence requirements of the ethical requirements of the Accounting Professional and Ethical Standards Board's APES 110 *Code of Ethics for Professional Accountants (including Independence Standards)* (the Code) that are relevant to our audit of the financial report in Australia. We have also fulfilled our other ethical responsibilities in accordance with the Code.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Emphasis of Matter - Basis of Accounting

We draw attention to Note of the financial report, which describes the basis of accounting. The financial report is prepared to assist the Association in complying with the Australian Charities and Not-for-profits Act 2012. As a result, the financial report may not be suitable for another purpose. Our report is intended solely for the Association and should not be distributed to or used by parties other than the Association. Our opinion is not modified in respect of this matter.

Responsibilities of Management and Those Charged with Governance

Management is responsible for the preparation and fair presentation of the financial report in accordance with the Australian Charities and Not-for-profits Act 2012, and for such internal control as management determines is necessary to enable the preparation of the financial report is free from material misstatement, whether due to fraud or error.

In preparing the financial report, management is responsible for assessing the Association's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Association or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Association's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Report

Our objectives are to obtain reasonable assurance about whether the financial report as a whole is free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the Australian Auditing Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of this financial report.

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Business Advisors + Auditors + Wealth Management
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Accru Melbourne (Audit) Pty Ltd. ABN 65 169 392 134. Accru Melbourne is an autonomous and separately accountable member of Accru and CPA Associates International Inc. Liability limited by a scheme approved under Professional Standards Legislation.

Live & Learn Environmental Education Inc.

Independent Audit Report to the members of Live & Learn Environmental Education Inc.

As part of an audit in accordance with the Australian Auditing Standards, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial report, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Association's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Association's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial reporter, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Association to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial report, including the disclosures, and whether the financial report represents the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the management regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Accru Melbourne

ACCRU MELBOURNE (AUDIT) PTY LTD

Cameron J Flynn

C J FLYNN
Director

19 November 2021

Board of Trustees

Our Board of Trustees ensures good governance and financial integrity, and that Live & Learn's focus remains true to its intended purpose.



Christian Nielsen

Executive Director Live & Learn Environmental Education

Christian has over 25 years' experience as a development practitioner and has worked in Indonesia, Fiji, Solomon Islands, Vanuatu, Papua New Guinea, Cook Islands, Kiribati, Maldives, Cambodia, Vietnam and Sri Lanka.

Christian lived and worked in the Pacific Islands for a decade, where he supported the establishment of Live & Learn's country programs. He has a long history with the Solomon Islands and supported the Solomon Islands government delegation in international climate change negotiations.

He has consulted for the Asian Development Bank, the World Bank, European Union and United National Development Program on issues relating to natural resources management, climate change adaptation and mitigation, environmental education and environmental conflict resolution.

He is a Company Director of Social Entrepreneurs International, a global network bringing together social entrepreneurs.



Iris Silva Brito

Lecturer, Navitas, ACAP, School of Social Work

Iris is a Brazilian-born Australian who is passionate about social justice, human rights and equal opportunity. She currently holds a lecturing position with Navitas-ACAP School of Social Work, Sydney, NSW.

Iris brings to Live & Learn a wealth of experience in the social development, education and management areas. Her capabilities and skills in international development draw on a life-long involvement in the educational and social services sectors in the northeast of Brazil working with economically disadvantaged communities. In addition, Iris brings experience and skills developed through her professional practice in service development, policy analysis, policy development and implementation, quality assurance, research and service evaluation in both the public and non-government sectors.

Iris holds the following Australian qualifications: BA Hons Social Work and Social Policy, Master of Business Administration and Grad. Certif. Applied Science Statistics.



John Fien

Professor of Practice, RMIT University

John Fien is Professor of Practice in the Master of Disaster, Design and Development program at RMIT University, where he teaches courses on Building Urban Resilience, Shelter and Settlement and Climate Change Adaptation. He has worked extensively with international organisations such as UNESCO, UNICEF, UNEP WWF and Live and Learn on policies and strategies for school and community education for sustainability.

He specialises in Education for Sustainability and facilitated the development of the UNESCO Action Plan for the United Nations Decade of Education for Sustainable Development. He has led teacher education programs on Education for Sustainability in many countries in Asia as well as in South Africa and Kenya.

His work focuses on leadership problems and seeks to develop ways of clarifying and enhancing leadership for the greater good, leadership development, and leadership in a greening economy.

The trustees provide their time and expertise on a voluntary basis.



Radha Cumarasamy

Head of Finance & Operations,
The Society of Hospital
Pharmacists Australia

A financial professional with experience in both the commercial and not for profit sectors, Radha is passionate about work supporting and improving the lives of people in disadvantaged communities and has a strong commitment to human development, poverty reduction and inclusive development.

She is a strategic financial executive whose financial, operational and leadership skills positions organisations for sustainable growth to achieve its mission.

Radha is a member of the Institute of Public Accounting and has a Masters in Business Administration.



Ali Zaheer Haidery

Compliance and Good
Practices Consultant

Ali Zaheer Haidery joined our Board in July 2018. He is an experienced Risk and Compliance Manager, with extensive financial, compliance and risk management expertise.

Ali has previously worked for Live & Learn International Australia, Oxfam Australia, United Nations High Commissioner for Refugees (UNHCR) and consulted for INGOs, international aid and development organisations.

He is currently working as Senior Strategy & Risk Officer for the Independent Broad-based Anticorruption Commission (IBAC). Ali has BA Hons in Business Administration with major in Financial Management.



Alyse Mobrici

Manager, Corporate
Team at Department of
Premier and Cabinet

Alyse is an experienced commercial lawyer, having spent several years at two international, top-tier law firms (Herbert Smith Freehills and White & Case) and currently manages the Corporate Team at the Office of the General Counsel of the Department of Premier and Cabinet, Victoria. She has a long-standing commitment to volunteer and community-based initiatives, including with Justice Connect and Bridges Across Borders Southeast Asia Community Legal Education Initiative.

She received her Master of Laws from Melbourne University (graduated with First Class Honours) in 2017 and also has a Bachelor of Laws and a Bachelor of Science from La Trobe University. Alyse's previous board experience includes several years on the board of a not-for-profit organisation providing community members with access to specialist training and equipment for community and personal home and garden improvement projects.



Sam Mackay

Program Manager, Griffith
Climate Change Response

Sam is a proven leader in designing and delivering international development initiatives, with a focus on innovation, partnership and action learning. Sam has considerable experience in the areas of public policy, institutional change and collaborative governance, where he has worked with more than ten countries in the Asia Pacific region to advise on complex issues associated with climate change, sustainable development and natural resource management.

Sam is Head of Practice - Climate Action and Executive Director of The Climate Ready Initiative at Griffith University. In this role he leads a number of partnership initiatives with government (federal, state, regional and local), private companies, development partners and communities to support effective climate change adaptation and risk management. Sam is committed to just and equitable development and the need to protect the condition of our environment, given its important function in human health, wellbeing and livelihood.

Our Thanks

Development Partners & Donors

Partnerships are central to our work. Live & Learn would like to thank our partner community groups, donors, NGOs and government agencies, and others for their continued and invaluable support.

Volunteers

Volunteers are a key component of our teams, and each volunteer's time, expertise and hard work are essential to our operations. Thank you!

Australian Council for International Development

Live & Learn is a signatory to the Australian Council for International Development (ACFID) Code of Conduct, which is a voluntary, self-regulatory sector code of good practice. The Code of Conduct defines minimum standards of governance, management and accountability for nongovernment development organisations. Adherence to the Code is monitored by an independent Code of Conduct Committee elected from ACFID's membership. Live & Learn's voluntary adherence to the Code of Conduct demonstrates our commitment to ethical practice and public accountability. More information about the ACFID Code of Conduct can be accessed at www.acfid.asn.au

Complaints

Live & Learn has a process for handling complaints. Please direct your complaint to Christian Nielsen, Executive Director, Tel: (+ 61 3) 9650 1291 / Email: christian.nielsen@livelearn.org

Information about how to make a complaint about a breach of the Code of Conduct can be found at www.acfid.asn.au

Commitment to Environmental Sustainability

Live & Learn is committed to sustainability, including working towards reducing our carbon footprint. This annual report is designed to be distributed electronically wherever possible. Annual Report 2018/19, produced by Live & Learn, Melbourne.

Our Offices

Australia

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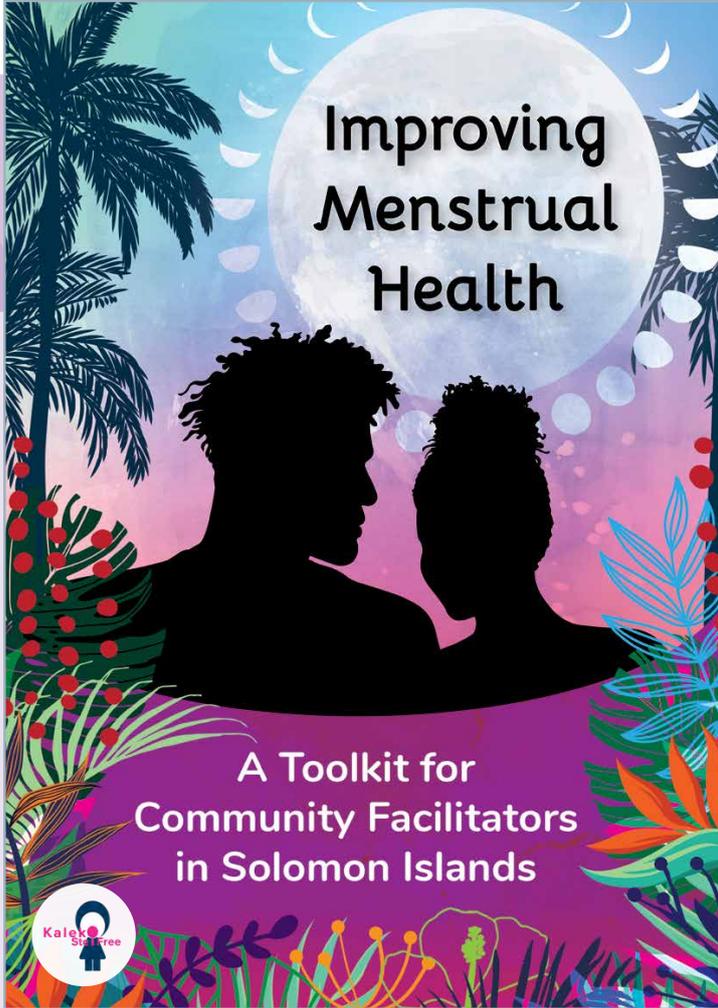
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RESOURCES

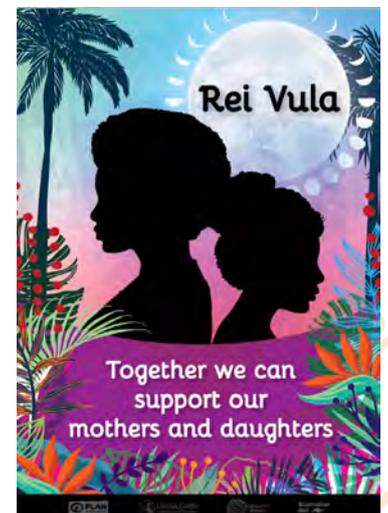


Improving Menstrual Health Toolkit

Menstrual health and hygiene affects many areas of the lives of women and girls. Menstruation is a healthy and normal occurrence, but it can become a challenge when individuals lack access to the resources, infrastructure and social support they need to appropriately manage it.

This facilitation guide has been developed for use in the Solomon Islands by women and men, and girls and boys, in communities and schools, to strengthen already existing knowledge on menstruation practices, cultivate awareness about the fundamentals of good menstrual health, and enable women and girls to reach their full potential.

This document was produced through the New Times, New Target Project, an Australian aid initiative implemented by Plan International Australia in partnership with Live & Learn Environmental Education on behalf of the Australian Government.



Stories from the Ground, Case Studies from Live & Learn Cambodia

This collection summarises half a decade of Live & Learn Cambodia's work on community-led approaches to developing and empowering Cambodians with innovative solutions to achieve sustainable livelihoods and environment.

It showcases achievements in environmental protection, human rights, gender and women's empowerment, financial literacy and community empowerment.

Stories from the Ground

Case Studies from Live & Learn Cambodia 2015-2020



Good Nutrition is Everything

To improve the health of herself and her unborn child, Heam Anngy, an indigenous woman from Ratanakiri province, adopted Essential Nutrition Action practices during her pregnancy. This change came about after the attended training sessions hosted by Live & Learn Cambodia LLC in February 2020. These sessions focused on nutrition, food hygiene and the importance of breastfeeding as a preventative measure for malnutrition. Cooking demonstrations were also conducted by LLC to increase awareness of diverse diets.

Thanks in part to these information sessions, Heam is still practicing exclusive breastfeeding for her son, who is 2 1/2 months old. She said, "During my pregnancy, I had many different kinds of food to eat four times a day. These were presented at the training. The diverse diet included a variety of green vegetables, yellow ripe fruits, beef, pork, fish, egg and rice - all locally available in my village. Moreover, I regularly visited the health centre, according to the schedule of the medical staff, for pregnancy care and to receive essential medication and advice."

This knowledge of improved nutrition was new to Heam's community. Before the training from LLC, Heam and the other women were solely advised by the older women in their community. Crucial advice from experts on improved nutrition and feeding has helped combat any malnutrition in the community. Heam is now passing on her knowledge to the members of the mother's group that she is a part of in Kasing 2 village, Ratanakiri province.

Heam delivered a healthy baby boy, weighing 3.5kg, and said of the training, "Improved nutrition brought me a healthy baby boy. Thank you, Live & Learn Cambodia! The UN-fund project supports vulnerable communities, with a focus on indigenous peoples of Ratanakiri province, to increase knowledge and practices on improved nutrition, feeding hygiene and sanitation. This continuing work will lead to an improved nutritional status and the prevention of malnutrition."

Case Studies

Resilient WASH in the Islands Region of Papua New Guinea

Gender & Social Inclusion Baseline Summary



Gender and Social Inclusion Baseline Summary

The Resilient WASH in the Islands Region of Papua New Guinea Program is an Australian aid initiative implemented by Live & Learn Environmental Education in partnership with Plan International on behalf of the Australian Government. Its goal is to improve access to safe and secure water, improve health, strengthen gender equality and create greater wellbeing for people in New Ireland Province and the Autonomous Region of Bougainville in Papua New Guinea (PNG).

This document is a summary of findings and analysis from a 2019 survey done in 63 communities to find female and male perspectives and knowledge on access to and experience of menstrual health and water, sanitation and hygiene.





Resilient WASH in the Islands Region of Papua New Guinea

CSI Baseline Summary

The Resilient WASH in the Islands Region of Papua New Guinea Program is an Australian aid initiative implemented by Live & Learn Environmental Education in partnership with Plan International on behalf of the Australian Government. The goal of the project is to improve access to safe and secure water, improve health, strengthen gender equality and create greater wellbeing for people in New Ireland Province and the Autonomous Region of Bougainville in Papua New Guinea (PNG).

PNG has some of the worst WASH status in the Pacific, with over 6,000 diarrhoeal deaths and 13% of the population 'has access to a basic level of sanitation'. Poor hygiene practices and low access to water and sanitation within the country can increase incidence of water-borne diseases, such as diarrhoea, cholera and typhoid. This in turn can lead to economic impacts at household and national levels, poor educational outcomes and higher mortality rates, especially for children.

The government of PNG has recognized the need for improved WASH and in 2015 developed its first WASH policy, which aims to promote long-term hygiene behaviour change. The improvement of WASH access and facilities are fundamental to improved health, equality and wellbeing across the country.

This project is enabling resilient, safe and inclusive WASH infrastructure and supports positive hygiene practices in communities, schools and health facilities. Through an improved understanding of gender and social inclusion in WASH, the Resilient WASH project will contribute to changed behaviour responses in communities. This will result in more sustainable water, sanitation and hygiene (WASH) outcomes.

PLAN
Water For Women
Live & Learn



In late 2019 a gender and social inclusion baseline survey was done in 63 communities in 10 local government areas. This document is a summary of findings and analysis based on three themes:

- 1 Female and male perspectives on access to water and sanitation facilities, and agency in household decision-making about water, sanitation and hygiene
- 2 Female and male perspectives and experience on participation, inclusion and agency in community decision-making about water, sanitation and hygiene
- 3 Female and male knowledge and experience of menstrual health

This report is a summary of key findings. Data was collected and analysed through the online cloud-based platform *swater*. The full findings are a rich source of information for informing project activities and the WASH sector overall in Papua New Guinea. They are available on a publicly accessible online webpage in *swater*. Click on the link below to access the full findings:

Resilient WASH in the Islands of PNG - Gender and Social Inclusion Baseline Data:
[Link to the Data](#)

Climate Resilience for Water Security Posters

Despite an abundance of natural resources, rapidly changing climate patterns have put Papua New Guinea's water sources at risk. To combat this risk Live & Learn PNG works with communities to build resilience to climate change as part of the Water for Women: Resilient WASH in the Islands Region of PNG Project.

This project aims to improve access to safe and secure water, improve public health, strengthen gender quality and greater wellbeing for the people of New Ireland Province and the Autonomous Region of Bougainville in PNG. These climate impact posters are part of a series, which will be used to improve communication with local communities about the threat climate change can pose to water sources.

This outcome has been made possible thanks to the support of the Australian Department of Foreign Affairs and Trade, and project partner Plan International Australia.



Climate Change Trends: WET SEASON IMPACTS

- 1 Damage to food crops
- 2 Damaged water sources
- 3 Damage to built infrastructure
- 4 Damage to livestock
- 5 Damage to riparian and coastal ecosystems

- More extreme rainfall days
- Increased rainfall
- More intense cyclones

PLAN, LIVE&LEARN, Ministry of Health, Provincial Government

Climate Change Trends: COASTAL IMPACTS

- 1 Coastal erosion
- 2 Coastal flooding and storm surges
- 3 Saltwater inundation into groundwater lens
- 4 Coral bleaching
- 5 Ocean acidification impacting marine species

- Rising sea level
- Increase in ocean acidification (PH)

PLAN, LIVE&LEARN, Provincial Government, Ministry of Health

Climate Change Trends: DRY SEASON IMPACTS

- 1 Impact on food crops
- 2 Impact on water sources
- 3 Increased potential and threat of fire events
- 4 Need assistance from outside of community
- 5 Damage to inland and estuary ecosystems

- Decreased rainfall
- Increased temperature and very hot days

PLAN, LIVE&LEARN, Provincial Government, Ministry of Health



Local Study into Local Compost Production in Tuvalu

Tuvalu is the fourth smallest independent state in the world, and as a collection of low-lying atolls with low soil fertility is particularly vulnerable to climate change associated impacts on the food security of its population.

This report explores the use of 'incentivized models' for compost production and identifies any factors relevant to Tuvaluan community members or actors in the compost sector to ensure that benefits from development assistance are effectively maintained over time.

This publication has been produced as part of the Tuvalu Food Futures Project and has been funded by the Australian Government through the Department of Foreign Affairs and Trade.

Local study into local compost production

Live & Learn Environmental Education Tuvalu | 2020



5. FINDINGS

5.1. Historical Use of Compost in Tuvalu

5.1.1. Traditional putaka pits

Tuvalu has a strong traditional culture of compost making through its traditional system of putaka pit agriculture. The putaka or giant swamp taro (*Cyrtosperma murkuu*) is grown across the Pacific and while it is no longer the main staple of Tuvaluan households, it forms a very important part of island culture in Tuvalu and is highly revered.

Putaka are commonly grown in excavated pits or pita, dug 1-2m deep through the limestone bedrock to access the fresh water lens below.¹⁴ Artificial

soil is built up in these pits through application of traditional compost called kaka made from a range of dry and fresh leaves, swampy soil and sometimes other ingredients also. Field level questionnaires show that traditional putaka pit farmers are familiar with a wide variety of compost ingredients (see figure 6) below, although methods and recipes are often closely kept within families, so exact ingredients used may vary.

This farming method is currently in decline,¹⁵ and while it is still common in the outer islands it has almost entirely disappeared on Funafuti,¹⁶ where pressures of land availability and salt intrusion into putaka pits threatens its ongoing use.



FIGURE 7: GIANT SWAMP TARO, SHOWING A PUTAKA PIT ON FUNAFUTI ISLAND (L252)



FIGURE 11: A HOME GARDEN ON FUNAFUTI

5.3. Current compost supply and production

5.3.1. Summary of compost producers

Due to the small number of actors involved in the compost sector in Tuvalu, many are both consumers and producers. The following sector may therefore be somewhat repetitive. Where possible supply and demand are addressed separately, but in some cases overall it is unavoidable.

DoW Funafuti Depot

The Department of Waste's depot at Funafuti is the largest producer of compost product in the country, producing 5-7m³ of product a week (or approximately 400-500m³ per year) and up to 10m³ following storms when more feed stock is available. This facility produces a partially composted shredded mulch and uses an open pile composting system, on bare ground, turned every 2 weeks.

Feedstocks are sourced from daily pickups of household yard waste from around Funafuti, by 2 DoW collection crews.¹⁷ This is stockpiled and shredded 2-3 times a week (1-2 shredder operating hours at a time). The feedstock is a mix of fresh and

dry leaves and branches, with the main ingredient being dry coconut palm. This is a low nutrient feedstock, that is difficult to process in small or poorly maintained chippers due to its fibrous and acidic nature.¹⁸ To manage this, the depot staff currently cut off and stockpile thicker coconut frond stems for burning. This is a good practice for reduced wear and tear on machines, but could be improved by use of turning the remaining woody waste into biochar rather than simply burning it.

Equipment used:

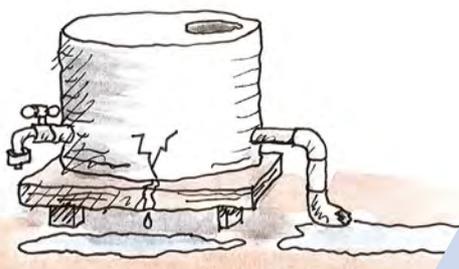
- Chipper Hitachi CS3 27hp 7" diesel chipper¹⁹ – age and running hours unknown, estimated 10yrs old. This is the smallest diesel chipper in the Hansa range.
- Backhoe loader (CAT 432F 8.5T diesel loader)
- 2x flatbed trucks (make, model and age unknown) used for waste pickup.

Maintenance on these machines is provided by a mix of the DoW and Department of Works, including regular servicing, diesel maintenance, hydraulic servicing and the specialized area of chipper blade sharpening on a bench sharpener (the skill level of engineers in country needs verification).

New Ireland Community Water Safety Planning Resources

The New Ireland Community Water Safety Planning Resources include sanitation inclusion cards, WASH operations and maintenance checklists, water safety info sheets and sanitation info sheets, all of which are designed to share knowledge and help communities improve their water, sanitation and hygiene practices.

These resources were produced by Live & Learn Environmental Education through the Resilient WASH in the Islands Region and Autonomous Region of Bougainville project in Papua New Guinea, supported by the Australian government and implemented by Plan International Australia and Live & learn Environmental Education.



COMMUNITY GUIDE
Water Safety
Guide to water safety and security practices

Source ▶ **Treatment** ▶ **Storage & distribution**

Water supply systems

COMMUNITY GUIDE
Hygiene & Sanitation
Guide to changing hygiene and sanitation behaviour practices

Common health problems

Faecal-oral
Typhoid
Giardia
Polio
Diarrhoea
Cholera

Water-washed
Scabies
Trachoma

Insect vector
Malaria
Dengue fever

Water-based
Schistosomiasis
Guinea-worm

Good v Bad behaviours

Spread of disease

Pathways of disease spread:

- Person-to-person: Touch
- Food and water: Fluids, Fluids/foods, Flies, Fingers
- Hygiene & hand-washing barriers
- Food: Fruits
- Hygiene & hand-washing barriers
- Future victims of diarrhoeal disease (new host)

Barriers

- Use a toilet
- Bury waste
- Water disinfection
- Hand-washing
- Cover food
- Wash food

70% ACCESS TO SAFE WATER SUPPLY & 70% NEEDS TO SHINE SANITATION IN NEW IRELAND BY 2030

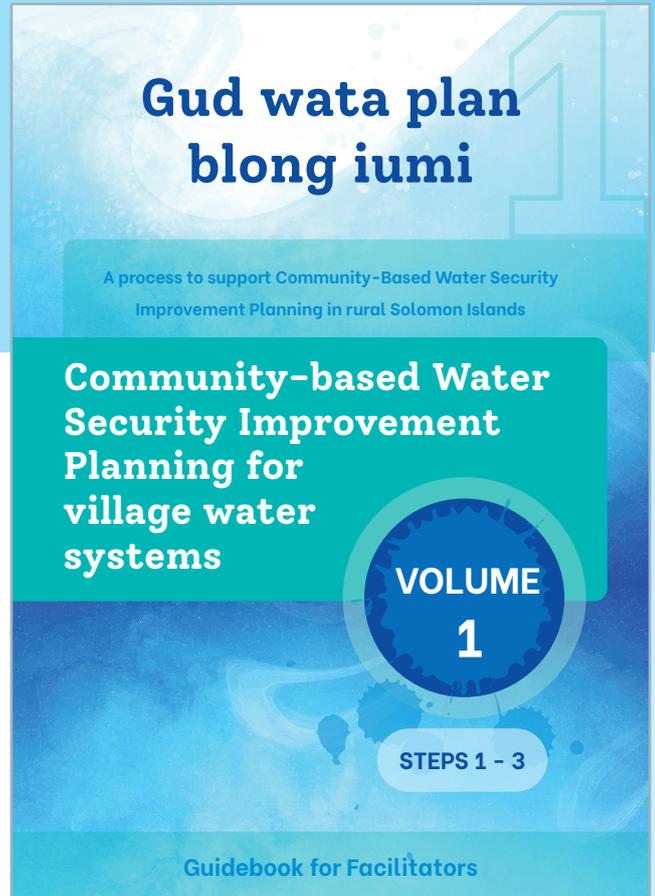
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A PNGAus Partnership Initiative implemented by Plan International Australia with Live & Learn Environmental Education on behalf of the Australian Government

Community-based Water Security Improvement Planning

Live & Learn and Plan International Australia, in collaboration with International WaterCentre, have developed a contextualised Community-based Water Security Improvement Planning guide for Solomon Islands. The tool aims to support community-led water management through knowledge sharing, provision of a practical and inclusive 7-step process and a risk-based approach to community-led water management.

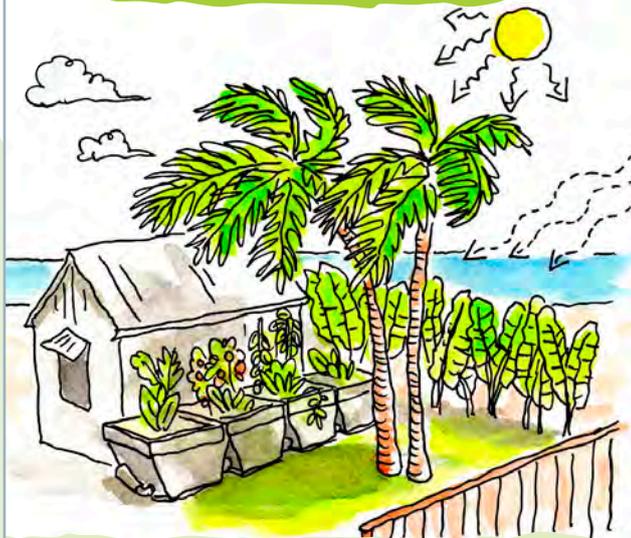
There are three volumes of the Community-based Water Security Improvement Planning guide, along with a case study report from the pilot project that shares an overview of the approach, and outcomes and results found so far. This work is supported by the Australian government through the New Times New Targets project through the Water for Women Fund.



Roles for Facilitator and Village			
Facilitator steps	Village Tasks	Actions that will enable CSI	Actions that will enable Climate Resilience
STEP 1 Activity: Gather Village facilitators To: confirm groups and zones and water types When: 2 weeks before Step 2 Duration: 1/2 day		Identify all groups to ensure they will be engaged in WESP process	Identify climate priorities
STEP 2 Activity: Engage village leaders on water sources and zones To: Mobilise and permission for WESP (zone approach) When: Week 1 Duration: 1/2 day	Organise zone meetings for Step 3	Seek identification of all groups	
STEP 3 Activity: Zone meetings To: Introduce water systems task to motivate WSP and identify responsibilities and gather data on water systems When: Week 2 Duration: 1-2 days	WSP areas identified Identify all water sources available, when used and for what uses. Zone reps complete household surveys (collected tables and area water systems)	Send meaningful participation of all marginalised people in zone representation. Incorporate experiences and needs from all marginalised people in actions and list survey	
STEP 4 Activity: Village meeting of zone reps To: show water systems (maps, barney) and data from each zone, and training in water pathways and identifying hazards When: 1-2 weeks after Step 3 Duration: 1 day	Zone representatives identify hazards & hazardous events within their respective zones	Incorporate hazards experienced by all people	Consider expected climate-related hazards in assessment of existing and future hazards
STEP 5 Activity: Village meeting of zone reps To: Share hazard assessment results and prioritise contents When: 1-2 weeks after Step 4 Duration: 1 day	Water hazard identification Zone reps present, review & agree action & priorities with village & village leaders	Practical improvements to achieve significant access Discuss positive and negative impact of course	Identify actions for prioritised climate related hazards
STEP 6 Activity: Village meeting of zone reps To: Document Gud Wata Plan-Plan When: 1 week after Step 5 Duration: 1 day	Describe water identify hazards Zone representatives identify hazards & hazardous events within their respective zones	Agree actions with village Ongoing implementation and monitoring of village Plan	Include climate hazards and actions
STEP 7 Activity: Ongoing implementation, monitoring & support monitor water quality for support sustained village water security When: 1 month after Step 6 (then every 2-3 months) Duration: 1 day	Agree actions with village Ongoing implementation and monitoring of village Plan	Implement actions Strengthen equitable representation	Adoption of plan for emerging hazards

Home Food Cube Gardening

A guide to using Food Cubes to grow vegetables in Tuvalu



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Tuvalu Food Cube Gardening Guide

This guide is to help households or gardening groups in Tuvalu produce as much healthy food, especially leafy green vegetables, from the Biofilta Food Cube, an innovative wicking container for growing vegetables in locations where vegetable beds in the soil on the ground is not possible. The guide is an introduction and overview of container gardening, covering topics like garden site and food cube construction, soil and compost, water conservation and more.

While the guide has been written for use in the Tuvalu Food Futures Project, it is relevant to any communities with atoll conditions, or other areas in the tropics who want to try container gardening.

The Food Cube Guide has been produced by Live & Learn Environmental Education through the Tuvalu Food Futures Project, funded by the Australian government through the Department of Foreign Affairs & Trade.



Rapid Assessment of Perceptions, Environmental Improvement and Waste Management Project - Maldives

The Maldives is facing a significant waste management problem. An artificial island constructed in the 1990s to store rubbish burns 24/7 in the open air, creating a health and environmental hazard.

This guide was designed to gauge public awareness of proper waste management techniques and to understand the capacity of institutions to establish and implement a sustainable solid waste management system in the Zone 3 region of the Maldives (Greater Male' capital region and 32 inhabited islands in Kaafu, Alif Alif, Alif Dhaalu and Vaavu Atolls). This is part of a three-year effort, supported by the Asian Development Bank, to improve public behaviour and awareness towards SWM, develop inclusive and cohesive island level plans on SWM through local level planning and multi-stakeholder consultation, and strengthen local capacity (particularly in outer islands) to manage solid waste.

This report was produced by Live & Learn Environmental Education for the Greater Male' Environmental Improvement and Waste Management Project, Ministry of Environment, Male', Maldives.







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