

MEDIA RELEASE

EMBARGOED UNTIL 6 SEPTEMBER, 10AM, 2016

NEW ZEALAND INNOVATION AWARDS - FINALISTS ANNOUNCED

ANNOUNCING EVERYDAY KIWIS DOING WORLD CHANGING THINGS IN INNOVATION!

Announced today are the finalists who represent game changing innovation from every corner of the country, with new ventures, products and services from a broad range of industries and business disciplines.

Finalists in the New Zealand Innovation Awards 2016 demonstrate that Kiwi innovation is thriving, with over a 30% per cent increase in entries that are of world class standard. Included in the finalists are an exciting range of entries; from motion activated wheel chairs, cancer diagnostic tools, sustainable meat substitutes and educational projects that help disadvantaged kids. **Spoilt for choice with this year's entries – these are everyday Kiwi's doing world changing things.**

New Zealand Innovation Council CEO Louise Webster says she has seen a significant shift in Kiwi innovation that is focused on high growth, export markets that demonstrate world leading approaches to innovation with many businesses going global from day one.

In addition to the innovative products and services entered, one of the biggest changes this year was a rise in entrants focused on making the world a better place. "We saw a new wave of innovative businesses focused on solving social issues. These organisations are still profit making entities, but are driven by a purpose to help solve the world's problems and have a global impact," says Ms Webster.

Bayer New Zealand Managing Director Derek Bartlett, says the quality of entrants is impressive. "The aim has always been to recognise great Kiwi talent and the commercialisation of innovative New Zealand products and services, and the awards certainly achieve that."

Other foundation sponsors include the New Zealand Innovation Council and Idealog, as well as category sponsors Auckland University of Technology (AUT), Chartered Accountants Australia and New Zealand, Chorus, Datamine, Jade Software, James & Wells, KPMG, 3M, MediaWorks, MOTAT, New Zealand Trade and Enterprise (NZTE), Paymark, Poutama Trust, Plant & Food Research Limited, Radio LIVE, Regus, Sovereign, Veda, Yealands Family Wines, Yellow and 90 Seconds.

The winners of the New Zealand Innovation Awards will be announced at the awards event held on **Thursday 20 October at SKYCITY CONVENTION CENTRE**. For more information and to purchase tickets to the awards event, go to www.innovationawards.org.nz or call 0800 2 INNOVATE (0800 2 46668).

The 2016 New Zealand Innovation Awards finalists are:

INNOVATION IN AGRIBUSINESS & ENVIRONMENT - Sponsored by KPMG

- Encounter Solutions - Celium
- Farmshed Lab - Flashmate
- Fieldmaster - Hovertractor to Mow Mangrove Seedlings
- Liquidstrip - LIQUIDSTRIP
- OnSide Ltd
- Robotics Plus Limited - Robotic Apple Packer
- Spring Sheep Milk Co. - Spring Sheep Milk Co.
- Zespri - SunGold Kiwifruit

INNOVATION IN DESIGN & ENGINEERING - Sponsored by James & Wells

- ARANZ Geo Limited- Leapfrog Modelling software
- AuCom Electronics Ltd - EMX4 Soft Starter
- AUT/NZA - New Zealand SKA Alliance Big Data Challenges
- DairyFlo - Soft plastic milking liners
- Howick Limited - Automated Steel Framing Machines
- Ogo Technology Ltd - Personal Mobility Device
- Robotics Plus - Robotic Apple Packer
- Wine Grenade



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INNOVATION IN EDUCATION, TRAINING & DEVELOPMENT - Sponsored by Chartered Accountants Australia and New Zealand

- Crimson Consulting
- Educa Limited
- High Performance Sport New Zealand - Goldmine
- Linewize Ltd
- Manaiakalani Education Trust - The Manaiakalani Programme
- Open Polytechnic - iQualify
- The Mind Lab by Unitec - Postgraduate Programme
- Toi Whakaari: New Zealand Drama School - Ruku Ao
- Virtual Medical Coaching Ltd - Virtual Reality Simulation

INNOVATION IN FINANCIAL & PROFESSIONAL SERVICES - Sponsored by Paymark

- ASB - Clever Kash
- Figured Ltd
- Fuel50 - CareerPathing
- Pushpay Holdings Limited
- Quotient
- Ranqx Limited
- Simplicity NZ Ltd - Simplicity KiwiSaver
- The Snowball Effect
- Vault IQ NZ Ltd - Vault IQ Global

INNOVATION IN HEALTH & SCIENCE - Sponsored by Chorus

- ARANZ Medical Limited - Silhouette & FastSCAN
- Caldera Health - Urine Prostate Cancer Diagnostic test
- Fonterra - GA for paediatric nutrition
- Forest Herbs Research Ltd - Kolorex Horopito - Natural Antifungal
- Ogo Technology Ltd - Personal Mobility Device
- Sush Mobile - NZ Blood Service Donor App
- Synthase Biotech Ltd
- Thought-Wired - Thought-Wired nous™
- Volpara Health Technologies Limited

INNOVATION IN FOOD & BEVERAGE - Sponsored by Plant & Food Research Limited

- Countdown - The Foodbank Project
- Fonterra - GA for paediatric nutrition
- Heilala Vanilla - anything but Plain!
- Ligar - Ligar in F & B
- Spring Sheep Milk Co.
- Sunfed Ltd - Sunfed Meats
- WineFriend
- Zespri - SunGold Kiwifruit

INNOVATION IN TECHNOLOGY SOLUTIONS - Sponsored by Jade Software Corporation

- ARANZ Medical Limited - Silhouette & FastSCAN
- Auror
- AUT/NZA - New Zealand SKA Alliance Big Data Challenges
- Bluelab Corporation Ltd
- CricHQ
- Linewize Ltd
- NZ Bus - Fleet future-proofing
- OnSide Ltd
- Pushpay Holdings Limited
- Volpara Health Technologies Limited

INNOVATION IN MARKETING & COMMUNICATIONS - Sponsored by Datamine

- Banqer
- Bluelab Corporation Ltd
- Haka Tours
- Heilala Vanilla - Co-branding and Collaborations
- MBIE Result 9 Better for Business - R9 Accelerator
- Patternsnap
- Pop-up Globe
- Zespri - SunGold Kiwifruit

INNOVATION IN MEDIA, MOBILE & ENTERTAINMENT - Sponsored by MediaWorks

- 90 Seconds



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- ASB - Clever Kash
- Flossie.com Ltd
- Patternsnap
- Pop-up Globe
- Spark Ventures
- Springfree Trampoline - tgoma
- Te Ipukarea - Te Aka Dictionary & Te Reo Maori app & Tamata Toiere e-repository of waiata and haka

INNOVATION IN SUSTAINABILITY & CLEAN-TECH - Sponsored by Yealands Family Wines

- Flick Electric Co.
- FoundationFootprint - Sustainability Reporting
- Ligar - Ligar in the Environment
- Method Recycling - Station
- NANOARC - Transparent Energy Interface
- Regen NZ Ltd - Water & Effluent Irrigation Scheduling Service
- Scion - Bioadhesives
- Stormwater360 - LittaTrap™

INNOVATION EXCELLENCE IN RESEARCH - Sponsored by Auckland University of Technology (AUT)

- AUT - New Zealand SKA Alliance Big Data Challenges
- Avertana - Extracting Value from Industrial Waste
- GEO AR Games - Sharks in the Park
- NZ Bus - Fleet future-proofing
- Robotics Plus - Robotic Apple Packer
- Sunfed Ltd - Sunfed Meats

START-UP INNOVATOR OF THE YEAR - Sponsored by Veda

- Dexibit - Mission in musedata
- InsuredHQ Limited
- Ligar - Ligar in the Environment
- Ligar - Ligar in F & B
- Manukee - UMF Manuka Honey Drinks



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- OnSide Ltd
- Postr Media Limited - Postr Lock Screen
- Sabre Tactical Limited - MAKO Tactical K-9 Harness
- Wine Grenade

EMERGING NEW ZEALAND INNOVATOR - Sponsored by Regus

- Auror
- CricHQ
- Koordinates
- Linewize Ltd
- Method Recycling - Station
- Quotient
- Sidekicker
- The Snowball Effect

SUSTAINED INNOVATION EXCELLENCE - Sponsored by Sovereign

- ARANZ Geo Limited - Leapfrog Modelling software
- ARANZ Medical Limited - Silhouette & FastSCAN
- Spark Ventures
- Zespri - SunGold Kiwifruit

EXPORT INNOVATOR OF THE YEAR - Sponsored by New Zealand Trade & Enterprise (NZTE)

- 90 Seconds
- ARANZ Medical Limited - Silhouette & FastSCAN
- Fonterra - GA for paediatric nutrition
- Linewize Ltd
- Volpara Health Technologies Limited
- Wine Grenade
- Zespri - SunGold Kiwifruit

EXCELLENCE IN SOCIAL INNOVATION - Sponsored by Yellow

- Banqer
- Countdown - The Foodbank Project
- High Performance Sport New Zealand - Goldmine



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- KiwiHarvest
- Manaiakalani Education Trust - The Manaiakalani Programme
- The Mind Lab by Unitec - Postgraduate Programme
- Thought-Wired - Thought-Wired nous™

INNOVATION IN MAORI DEVELOPMENT - Sponsored by Poutama Trust

- Kidscoin Ltd
- Manaiakalani Education Trust - The Manaiakalani Programme
- Ngati Rangi Trust - Ruapehu Whanau Transformation Plan
- Squiggle Ltd - Young Engineers
- Te Ipukarea - Te Aka Dictionary & Te Reo Maori app & Tamata Toiere e-repository of waiata and haka
- Te Whare Hukahuka- Enabling Maori Leaders

MOST INSPIRING INDIVIDUAL - Sponsored by 3M

- Jamie Beaton - Crimson Consulting
- Jenene Crossan - Flossie.com
- Lillian Grace - Figure.NZ
- Russell Burt - Manaiakalani Education Trust

YOUNG NEW ZEALAND INNOVATOR - Sponsored by MOTAT

- Alejandro Davila - Conical (VR Studio) / Colab
- Alistair Scarfe - Robotics Plus
- Jamie Beaton - Crimson Consulting
- Katherine Holt - Massey University
- Kerman Kohli - The App Shop
- Ross McCarthy - Airwave Ltd

BAYER SUPREME NEW ZEALAND INNOVATOR - Sponsored by Bayer New Zealand

- Will be announced on the 20th October at the NZ Innovation Awards event

THE PEOPLE'S CHOICE AWARD - Sponsored by Idealog

- All finalists - public voting open from the 12 September to the 30 September 2016 at www.innovationawards.org.nz



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MEDIA RELEASE ENDS

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2016 INNOVATION COUNCIL AWARDS – FINALISTS EDITORIAL

90 SECONDS – AUCKLAND

90 Seconds is a Cloud Video Production Service providing a marketplace and workflow platform, enabling a global community of creators to obtain high quality, online video content produced anywhere in the world. Brands want video content and this platform connects them with content creators, and manages the relationship online and connects with third party applications such as stock footage, drone shots, translations and Google AdWords. 90 Seconds has also documented its own journey in a web series called 'Ride the Wave'.

ARANZ GEO LIMITED – LEAPFROG MODELLING SOFTWARE – CANTERBURY

ARANZ Geo's Leapfrog used existing 3D technology and applied it to geological modelling. Geological data sets enable Leapfrog to model complex geology quickly, for mining and workflow, aiding the sequential decision-making process for tackling geological strata. Cost benefits to the mining industry are huge, with Leapfrog able to adapt to additional information quickly, allowing geologists to test different hypotheses during the modelling process. Leapfrog engages customers in the development process to ensure continued market innovation, and the software has been applied to geothermal and hydrological modelling as well. ARANZ also applies 3D technology in the medical field.

ARANZ MEDICAL LIMITED – SILHOUETTE AND FASTSCAN – CANTERBURY

Measuring the rate of healing of wounds and ulcers is essential in chronic conditions. ARANZ's Silhouette scanner is an advanced non-contact wound surveillance system that shows the rate of healing and wound change over a period of time, allowing for better monitoring and patient care. ARANZ has also developed the FastSCAN, a 3D system that helps custom-fit orthotics and prosthetics more comfortably, and accurately, for patients. These patented technologies are already helping patients in thirty-five countries and have been acknowledged by the United Nations.

ASB – CLEVER KASH - AUCKLAND

In an increasingly cashless society, parents find it harder to teach their children about money and savings. The ASB's Innovation Lab and Marketing, and its partners, collaborated on the Clever Kash cashless moneybox that lets parents give children pocket money without the need for cash. This connects kids to their savings through interactivity as children 'swipe' virtual notes and coins into their savings account with the Clever Kash app. Clever Kash embodies the ASB vision of innovation, technology, marketing, respect for our heritage and delivering a competitive advantage.



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AUCOM ELECTRONICS LIMITED – EMX4 SOFT STARTER – CANTERBURY

AuCom's new EMX4 is a small, powerful soft starter with control, protection features and Smart Card capability. Soft starters protect engines from the power surge of starting and the EMX4 is energy-efficient and compatible with premium efficiency motors. The EMX4 connects directly with other devices in the system such as pressure, flow and depth sensors. The EMX4 becomes a central point of intelligent control and communication with the engine. The innovative XLR-8 adaptive acceleration technology efficiently auto-tunes for the connected motor and provides precise control over motor acceleration and deceleration without any of the downsides of spikes in torque or power.

AUROR – AUCKLAND

Auror is a software platform that allows police and businesses to share information about crime incidents and to work together to identify offenders. It is transforming the way Police and communities prevent and solve crime. Auror streamlines the crime reporting process to reduce barriers to reporting crimes. Once incidents are uploaded, Auror connects the dots to identify links between offenders and vehicles, track theft trends, generate reports on theft activity and allow interactivity between users. Shoplifting and petrol drive-offs cost retailers millions every year but are underreported, allowing such crimes to flourish because their low value does not match the significant time and resources required to investigate each case. Auror has tools such as Automatic Number Plate Recognition to alert police when offenders arrive on-site, increasing the chance of arrest.

AUT/NZA – NEW ZEALAND SKA ALLIANCE BIG DATA CHALLENGES - AUCKLAND

The Square Kilometre Array (SKA) is a mega-science 'Big Data' project. It is the biggest science project in which New Zealand has had a lead role, and is possibly the largest NZ involvement in an international ICT collaboration. The Array involves infrastructure and supercomputing systems that will create the world's largest and most sensitive radio telescope, fundamentally changing our understanding of the Universe over the next fifty years. SKA requires data processing at rates higher than the entire global internet traffic per second and the NZA is designing the data processing to be fast and energy-efficient. The profile has helped stir interest from multinationals over NZ as a hub for technology development.

AVERTANA – EXTRACTING VALUE FROM INDUSTRIAL WASTE – AUCKLAND

Avertana's proprietary process technology converts industrial waste streams into valuable chemicals and minerals used in everyday products, with no residual waste. Industrial waste slag is turned into components of paint manufacture, water purification, wallboards and fertiliser without creating further waste and with a much lower carbon footprint for the primary product, titanium dioxide pigment. The cost benefits are significant and reduce the need for raw materials mining and for water consumption. Waste slag can be converted into a revenue stream that makes steel mills, such as Glenbrook, more cost-effective and increases their long-term sustainability. The demand for titanium dioxide is hampered by the high carbon footprint of production. Retrieving titanium dioxide from waste slag is considerably more environmentally sustainable and cost-effective, with the aim to have a zero waste output.



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BANQER – CANTERBURY

As a society, we suffer from a lack of financial literacy and Banqer is an online platform that facilitates the teaching of financial education in the classroom through a virtual currency system. Students of all ages can engage with their highly-interactive classroom finances virtually; managing rents, mortgages on investment property, insurance, tax payments, Kiwi Saver, and to view interest accruing on savings. Banqer aims to provide an environment for kids to get curious, creative, and ultimately confident with money. Banqer crowdsourced features and improvements from educators using the software, to further develop the product.

BLUELAB CORPORATION LIMITED – BAY OF PLENTY

Hydroponic growing relies heavily on accurate sensors and automated processes. There is an increase in hydroponics as farming moves from rural to urban, and from field pesticides to organic growing. Hydroponics use less water and provide more intensive farming. Bluelab works in the hydroponic sensing market, with accurate controls for digital pH, conductivity, nutrient formulations, temperature, analysis, and automation technology. Bluelab technology optimises yield and increases produce quality with Cloud connectivity and cost-sensitive sensor equipment. Bluelab is a market leader in North America, and has NZ-made systems such as The Pro Controller and PeriPod™ for nutrient distribution.

CALDERA HEALTH – URINE PROSTATE CANCER DIAGNOSTIC TEST – AUCKLAND

Caldera Health is developing clinical laboratory tests for prostate cancer by measuring the expression of multiple RNA biomarkers, using a high throughput Next Generation Sequencing (NGS) platform with novel, integrated analytical software. These cost-effective tests will be more accurate in identifying cancer and will also significantly reduce the high numbers of false positives, which result in unnecessary biopsies. The Caldera test has the potential to identify previously-missed cancer patients, allowing them to get the treatment they need much earlier. Caldera Health is concurrently developing biopsy and urine tests for prostate cancer identification through the use of genetic biomarkers and a microfluidic device to separate prostate cells from the urine.

COUNTDOWN – THE FOODBANK PROJECT – AUCKLAND

The Foodbank Project is New Zealand's first online virtual foodbank, and is a collaboration between web developer, Galen King (Lucid), the Salvation Army and Countdown. Traditional foodbank donations can experience peaks and troughs in donations, wastage, a lack of hygiene necessities, and with demand outstripping donations. The Foodbank Project allows online donations and ensures donated items cover a range of needs instead of consisting of tinned baked beans. The Foodbank Project helps fill the gaps, and has already provided 36,000 food parcel items. Being able to select the specific nature, frequency and location of the donation, the project also overcomes the most common objections of a donor-weary public.



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CRICHQ – WELLINGTON

CricHQ is a smartphone scoring app for cricket, recording statistics for players and games worldwide. CricHQ also digitises and streamlines administrative tasks for coaches, players, managers and teams. The methodology of international cricketers is brought to the grassroots of the game as CricHQ is in partnership with cricketing's world governing body, the ICC. The mobile-enabled CricHQ covers thousands of schools, tournaments, leagues, clubs, teams, players, coaches, parents, players and fans. The membership also allows CricHQ to create opportunities for communication between club and fans, management and players, sponsors and stakeholders.

CRIMSON CONSULTING – CRIMSON EDUCATION – AUCKLAND

Crimson Consulting understands that no two students learn in the same way, or at the same pace. In keeping with their motto to "Learn. Achieve. Inspire Greatness" they have created a revolutionary, accessible, personalised approach to education that culminates in guiding students through transformative, multi-year, curated support programmes with mentors, consultants, tutors, and advisors from all around the world. Crimson Education aims to develop leadership skills and guide students towards international University pathways and academic success at all age levels.

DAIRYFLO – DAIRYFLO SOFT PLASTIC MILKING LINERS – HAWKE'S BAY

DairyFlo are the producers of the world's first soft plastic milking liner and tubing system, using Thermoplastic Elastomer. Rubber is traditionally used in milking operations but contamination and bacterial build-up are issues, as well as their contribution to landfill waste. Silicone is porous and has associated problems. DairyFlo utilises a food-grade urethane tooled, to create milking liners that reduce the risk of bacterial contamination. The liners are fully recyclable. The TPU material does not contain carcinogens, phthalates or plasticisers. It does not absorb chemical, milk fat or protein and is resistant to cracking. Having engineering capabilities of 800% elasticity, TPU does not break down or lose its 'memory'.

DEXIBIT – MISSION IN MUSEDATA – AUCKLAND

Dexibit uses mobile technology, transactions, and other analytics to collect visitor data at cultural institutions such as museums, galleries and zoos. Understanding consumer drivers and visitor behaviour enables institutions to streamline the experiences and to drive consumer engagement and attract funding. Dexibit uses complex data integration to provide insights that support decision-making and can help personalise experiences. Having a better understanding of visitor behaviour has applications for all retailers and consumer-driven industries.

EDUCA LIMITED – WELLINGTON

Educa is an online documentation and communication tool bringing educators and parents of preschoolers together to build learning, by creating online portfolios. Educa is a simple, easy-to-use platform where parents and educators can communicate in real time about an individual



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child's learning progress. Educa saves time, increases positive connections between centre and community, and allows Early Learning centres to easily meet regulatory reporting requirements.

ENCOUNTER SOLUTIONS – CELIUM – AUCKLAND

Celium® is a low-power wireless sensor network that uses sensor nodes and base stations to relay data and communications in a network in remote and rural landscapes. It was designed by Encounter Solutions for wide scale wildlife management applications. Celium® utilises network operating protocols, satellite backhaul, Cloud server data management and delivery to end users through proprietary mobile applications for administration and interaction with the Celium narrowband network. The applications include such things as pest animal trapping programmes, wildlife monitoring, climate/agriculture instrumentation, forestry, metering, security systems and infrastructure monitoring. This enables government agencies, landowners, rural businesses and communities to optimise the way they manage natural resources.

FARMSHED LABS – FLASHMATE – WAIKATO

Flashmate® is a touch-sensitive disposable detector which indicates when a cow is in heat and ready for breeding. It takes the guesswork out of animal husbandry as Flashmate® is easily applied in wet or dry weather with one hand, and stays on for weeks. When the red light comes on, the cow is in heat and ready to get in calf. A green light indicates possible pregnancy if the cow has not come into heat again within 25 days. The accuracy of Flashmate® ensures increased success rates with cow pregnancy, thereby increasing herds and milking yields. Flashmate® is a low-cost product that increases efficiency without altering farming work practices. The Flashmate® starts working the minute the packaging is opened and is waterproof, adhesive and recyclable.

FIELDMASTER – HOVER MANGROVE MOWER – AUCKLAND

Mangroves can encroach on harbours but are difficult to control without harming birds and wildlife. The Fieldmaster Hover Mangrove Mower is able to remove mangrove seedlings from an area of 60,000 m² per hour, without damaging the estuary surface. The Mangrove Mower is a modified hovercraft with six hydraulically powered cutting heads which use a nitrogen accumulator system to control ground pressure and a 'plastic shoe' to control directional stability and cutting height. The Mangrove Mower is an example of kiwi ingenuity in recombining existing technologies in innovative ways to problem-solve a need.

FIGURED LIMITED – AUCKLAND

Figured is a Cloud-based farming financial management tool that works with Xero to help improve performance and profits, by serving the needs of farmers, accountants and bankers. Figured and Xero bring stock reconciliation, cash flow, forecast profit and loss, balance sheet movements, formal accounts and tax statements together on the same platform, providing one source of real-time financial information for farms. Figured allows the farming team to react



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more efficiently to market opportunities and risks. New Zealand farmers have proven the product with over 6500 paid licences, and Australian and American market entries are underway. By integrating the software solution with bank partners, Figured drives opportunities for growth. The Cloud-based tools allow for easy farm budgeting and cashflow forecasting.

FLICK ELECTRIC CO. – WELLINGTON

Flick Electric Co. uses proprietary technology and apps to allow customers to transparently buy electricity directly from the fluctuating wholesale market. Flick charges a retailer fee for the service. Flick's aim is to provide customers with lower cost electricity by allowing them to make choices about their consumption in real time and with greater transparency. Weekly readings and payments reduce the potential for bill shock, and the customer service scores highly in independent surveys. Flick provides customers with the incentive to chase low prices and make choices about energy which help smooth out high and low demand periods.

FLOSSIE.COM – AUCKLAND

Flossie is an Intelligent Assistant app that brings together the functionality of many shopping and booking apps to help clients book their hair and beauty appointments. Featuring instant booking, diary synching, personalised recommendations, cashless transactions, VIP pricing, salon reviews and money-back guarantees, Flossie is helping redress the issue of the drop-off of traditional salon advance booking practises. Flossie operates as a mobile platform personal assistant rather than as a directory and is responsive to the needs of customers and salons.

FONTERRA – GA FOR PAEDIATRIC NUTRITION – MANAWATU – WANGANUI

Breastfeeding is best for a baby's brain development, but breastfeeding is not always possible. Breastfed babies have a higher content of a lipid called Gangliosides or GA in their brains, and Fonterra wanted to improve the GA content of infant formula in order to more closely mimic breast milk composition. Clinical research has demonstrated the role that dietary GAs play in infant development. World-leading, independent expert consultants peer-reviewed the research and generated interest in the complex milk lipids developed by Fonterra. The paediatric nutrition category is growing globally and their scientifically substantiated trademarked Nuelipid™ formula helps Fonterra access this market. Commercial products based on this innovation programme are being launched in multiple markets under the Fonterra-owned consumer brand Annum™.

FOREST HERBS RESEARCH LIMITED – KOLOREX HOROPITO ANTI-FUNGAL – MARLBOROUGH, NELSON, TASMAN BAY

Forest Herbs Research Ltd grows the native Horopito plant commercially and markets their anti-fungal Kolorex products. Candida is the fungus responsible for Athlete's foot and thrush, and Kolorex has been found to be more successful in treating recurrent and resistant vaginal thrush than mainstream pharmaceuticals. Cultivating native plants and breeding varieties with



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high levels of active ingredient gives Forest Herbs Research an advantage over chemical competitors, who cannot replicate the Horopito plant extract.

FOUNDATION FOOTPRINT – SUSTAINABILITY REPORTING – AUCKLAND

FoundationFootprint actively manages the processes of collecting data for sustainability reporting, from supplier to global accountability. Knowing the sustainability statistics and taking corporate and social responsibility throughout the supply chain and production process is now essential in a modern business and adds value as an integrated part of corporate culture. Multiple sources of high volume data can be difficult to analyse, but FoundationFootprint's system is intelligent, intuitive and able to synthesise complex data. FoundationFootprint automates the collection and updating of data concerning carbon, wastewater, and recycling, disseminating the progress reports to stakeholders. The Report Mapper software intelligently populates data into different reporting framework requirements from global entities.

FUEL50 – CAREER PATHING – AUCKLAND

Fuel50 career pathing software utilises innovative exercises, matched with machine intelligence, to plot career path opportunities worldwide. Fuel50 encourages employee retention in enterprising organisations by allowing employees and employers to see the horizontal and vertical career pathways within the business. Employees often leave an organisation to seek career promotion, taking their training and skills with them. Fuel50 helps employees see the opportunities around their organisation, and can help employers retain skill sets.

GEOAR GAMES – SHARKS IN THE PARK – AUCKLAND

Encouraging physical activity in digital-age kids can be difficult. GeoAR Games use geospatial Augmented Reality technology to encourage kids into outdoor spaces and physical activities by combining 3D content with reality. Safety is paramount, so our technology has road detection features. The game 'Sharks in the Park' can be played globally in any open space, while another game 'Magical Park' has been purchased by councils for use in public parks by families. Technology is here to stay, but it doesn't have to be sedentary. GeoAR Games prove that it can be used as a positive motivational tool for physical activity and social interaction. The scope for outdoor exhibitions, art galleries, education and cultural activities using this technology is huge.

HAKA TOURS – AUCKLAND

Haka Tours targets consumers at various stages of the tourism purchase via social media, using device-friendly entertaining content that has minimal branding and connects emotionally with those with dreams of visiting New Zealand. Our site helps plan tours, and showcases personal video footage of participants through our Tikipici service. The organic shares of such video content extended our marketing and built brand preference and trust. Haka Tours has also become a media and entertainment company with plans to enter the world of Virtual Reality.



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HEILALA VANILLA – BAY OF PLENTY

Heilala Vanilla is an authentic and ethically-sourced pure vanilla brand that aligns with food trends towards traceability and clean labelling. Heilala Vanilla's mission is to source sustainably and to empower grower communities. In order to expand the vanilla market, Heilala Vanilla has partnered with ethical brands where Heilala Vanilla can add value to a finished product. Research and development into uses for vanilla resulted in collaborations with Whittaker's Chocolate, Lewis Road Creamery, Tuatara Beer and other bespoke producers. This co-branding has contributed to Heilala's consistent revenue growth.

HIGH PERFORMANCE SPORT NEW ZEALAND – GOLDMINE – AUCKLAND

High Performance Sport New Zealand (HPSNZ) knows that success in high performance sport comes down to the finest of margins. Goldmine is an integrated innovation and technology programme that develops bespoke electronics and engineering for elite athletes. Customised cutting-edge technology including micro-circuitry in athletic equipment such as pole vaults, kayaks and cycles, is coupled with analytic software for the optimum training of athletes. Goldmine provides a common data platform to information exchange between coaches to capture combined knowledge and expertise. Goldmine's aim is to bridge the gap between theoretical aspects of technology and real world applications in the performance environment. The proof is in New Zealand's Olympic medal successes in London and Rio.

HOWICK LIMITED – AUTOMATED STEEL FRAMING MACHINES – AUCKLAND

Howick Ltd develops smart construction systems. Their innovative Steel Framing technology enables productivity gains and cost savings across construction projects with accurate and easy-to-assemble structures. Howick's FRAMA machines take 3D CAD files and processes them as panels and trusses with steel rolled through the machine and accurately punched into easily-assembled framing components for load and non-load bearing applications. The proven benefit worldwide is in time and space-saving construction. Assembly time has been shown to be reduced from 115 minutes to 7 minutes on site, using unique connection details during production. The Howick designs allow for taller structures out of lightweight steel.

INSURED HQ LIMITED – AUCKLAND

InsuredHQ is an easy-to-use, highly automated platform for insurers, agents and brokers. It allows for the selling of insurance policies online, or for policy administration, handling client data, document creation, claims management, reinsurance implications and financial transactions. InsuredHQ is responsive, customisable, cost-effective, modern, and flexible. InsuredHQ is particularly suited to micro-insurance and emerging markets. It has highly-automated functionality and a multilingual capability.

KIDSCOIN LIMITED – AUCKLAND

Financial literacy for young people is essential and Kidscoin uses a blend of online learning, banking and shopping to create a fun experience of the world of money. Empowering young people to understand how money works, Kidscoin uses technology to develop long-term financial learning, both at home and at school. Kidscoin brings businesses and local communities into the practical learning process, encouraging them to work with schools and to extend education from the classroom to the community.

KIWIHARVEST – AUCKLAND

KiwiHarvest is a social venture that collects quality, fresh food that is still fit to eat and distributes it to charities who are feeding those in need. Fresh food is rarely found in food donations, and yet is an essential for struggling families with poor diets. Fresh food is often discarded into landfill, creating pollution, when it could be redirected to those in need. KiwiHarvest provides a service by collecting fresh food and redistributing it to charities for food boxes. KiwiHarvest works with government, community, charities, donors, volunteers and social service agencies to achieve socially responsible goals.

KOORDINATES – WELLINGTON

Koordinates processes large, complex, geospatial datasets in a Cloud-based platform, bringing together reporting from governments, researchers and private companies, ensuring that engineers and scientists can quickly and easily access information for large-scale infrastructure projects. Wide-ranging information such as water quality, new housing developments and energy networks are collated to provide up-to-date analytics for professional use. Geospatial information that is often inaccessible without specialised desktop software is now available via Koordinates Cloud access.

LIGAR – LIGAR IN FOOD AND BEVERAGES – WAIKATO

Molecularly imprinted polymers (MIPs) are designed to capture specific molecules, allowing them to be filtered out of a flow and, if desirable, extracted for reuse. Ligar can manufacture large volumes of MIPs to remove heavy metals, organic pollutants and other molecules from waterways and fluid food and beverages. MIPs can remove substances such as pesticides, heavy metal contaminants, and flavour taints from wine and food oils. It can also extract or isolate highly valuable molecules from plant extracts. MIPs have existed since the 1970s for identifying molecules but the innovation of large scale production is a game-changer for the food and beverage industries.

LIGAR – LIGAR IN THE ENVIRONMENT – WAIKATO

Molecularly imprinted polymers (MIPs) capture specific molecules, filtering them out of liquid flows and extracting them for reuse. Ligar can manufacture MIPs in large volumes, opening up opportunities for cost-effective removal of heavy metals, toxins, organic pollutants and pesticides from waste streams, waterways and other liquids. Pollution prevention and



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sustainability is a growth area and the recovery of wastes or valuable minerals is a key target for MIPs. For example, tanneries lose chromium during the tanning process, and recovery is generally uneconomical, but millions of dollars' worth of chromium can now be recovered in an immediately reusable form with all contaminants removed through the use of Ligar MIPs. Using the Ligar targeted systems for filtration and extraction is now cost-effective and sustainable.

LINEWIZE LIMITED – CANTERBURY

The management of student Internet access at schools is a complex problem. Rather than the blanket blocking of sites, Linewize is a Cloud-managed open-source firewall that gives teachers and students visibility over the student's allocation of time and attention so that students can learn to behave responsibly with guidance. With a new generation of students operating on their own devices, it can be difficult to manage the school's bandwidth usage. Linewize solves that problem with their low-cost, education-specific, subscription-based, easy-interface option that works with existing firewalls in schools.

LIQUIDSTRIP – AUCKLAND

Liquidstrip is a patented industrial waste extraction system with continuous liquid filtration capacity. Liquidstrip provides efficient separation of high levels of waste solids from waste water or effluent flows. Liquidstrip can be retrofitted to existing systems or used new with smart technology to record data on volumes and water quality. The system works alongside an organic additive, to help further purify the wastewater. Initial marketing targets are the dairy, construction, dredging, petrochemical, viticulture and mining industries where Liquidstrip's low-cost wastewater processing will be attractive.

MANAIAKALANI EDUCATION TRUST – THE MANAIAKALANI PROGRAMME – AUCKLAND

The Manaiakalani Programme and Outreach involves an innovative digital learning approach and framework, delivering high-end digital learning and citizenship to learners in the lower socio-economic area of Tamaki in Auckland. Integrating parental and community support with professional development for teachers and an innovative design, the Manaiakalani Programme has been independently verified to demonstrate that students are learning at a base rate of 1.5 times the normal NZ learning rate, with increased attendance levels and a sharp improvement in on-task behaviour. Manaiakalani sustainably and demonstrably lifts achievement, and the persistent commitment to evaluation and a design-based approach drives continual improvement.

MANUKEE – UMF MANUKA HONEY DRINKS – BAY OF PLENTY

Manukee produces UMF Manuka Honey ready-to-drink products teamed with pear, elderflower, lemon and ginger to create daily wellness drinks with no added sugar or preservatives, colour or flavouring. It is therefore a functional beverage which provides a healthy alternative to other sugar-laden drinks. Global consumers are aware of the benefits of UMF Manuka honey but are not always able to access it in forms other than tubs of raw honey. Manukee delivers a convenient inner wellness solution that is quick and easy to consume, with

all the health benefits of Manuka honey. The beehive shaped bottle adds to the marketing appeal.

MBIE RESULT 9 BETTER FOR BUSINESS – THE R9 ACCELERATOR – WELLINGTON

The R9 Accelerator brings the public and private sectors together to work on real world problems that affect businesses. Solution-focused, the R9 Accelerator makes it easier for businesses to interact with government. The R9 Accelerator has the ability to develop and test solutions quickly, and then share their expertise with the public sector. The R9 Accelerator enables private sector entrepreneurs to mentor or partner with public sector staff, creating change in a low-risk, low-cost way.

METHOD RECYCLING – STATION – WELLINGTON

Method creates and sells stylish, functional recycling bins for corporate workplace environments. In public spaces, people need a visual reminder to recycle, and Method's aesthetically stylish, modern and flexible bins clip together to create a recycling station in the workspace. Easy to assemble, they also have patented rubbish bag retainers. Designed to give easy access, while preventing health and smell issues, the Method recycling bins are tooled without sharp corners and ridges where dirt might accumulate. Engaging staff in sustainability saves businesses money and is environmentally proactive.

NANOARC – TRANSPARENT ENERGY INTERFACE – AUCKLAND

NanoArc is developing transparent energy technology that uses the invisible and visible light spectrums to generate electrical power. Non-toxic, photoactive nanomaterials are sandwiched between layers of conductive glass or plastic and allow windows, tents, windshields, phone screens and other transparent surfaces to generate power, even under low light conditions. This has enormous potential for emergency situations, vehicles, hospitals, schools and commercial structures. Environmentally, it will reduce the reliance on batteries, and the energy consumption of manufacture is low, due to the unique silicon-based nanomaterial being manufactured at room temperature. This technology will reduce the reliance on battery power and will be essential in emergency situations.

NGATI RANGI TRUST – RUAPEHU WHANAU TRANSFORMATION PLAN – MANAWATU – WANGANUI

The Ruapehu Whanau Transformational Plan addresses critical intergenerational issues across the five focus areas of Education, Employment, Housing, Health and Social. The aim is to increase local employment, median income, qualification attainment, and housing quality, through collaboration. Although iwi-led, it is for all ethnicities and is based on common well-being goals in the Mount Ruapehu region. Locally designed programmes and solutions have allowed for co-investment in implementation, improving the provincial economy without compromising environment, culture or lifestyle.

NZ BUS – FLEET FUTURE-PROOFING – AUCKLAND / WELLINGTON

NZ Bus is retrofitting and future-proofing its fleet with award-winning electric powertrain technology from Wrightspeed. The Wrightspeed powertrain works by using electric motors (powered by batteries that store electricity, including from the energy created by braking) to drive the wheels. When the batteries do run low, an on-board range extender, which is fuel agnostic (which could run on biofuel, landfill gas or natural gas) kicks in. Once battery technology improves, the range extender can be removed to create a fully electric vehicle. Investment in this technology will enable NZ Bus to lead a transition to electric-powered vehicles for public transport in New Zealand, which will deliver meaningful environmental and social benefits with cleaner fleet solutions.

OGO TECHNOLOGY LIMITED – PERSONAL TRANSPORT DEVICE – WELLINGTON

The Ogo is a hands-free electric personal all-terrain transport device that enables a person with a walking disability such as paraplegia, spina bifida, or amputation, to use the intuitive movement functions of this unique mobility aid. The Ogo has a patented active seat control system that uses core muscle strength to engage electronic and mechanical action to move the device. The Ogo is practical, robust and stylish. Ogo gives mobility-impaired people greater freedom, independence and options. After many years of development, the Ogo concept was unveiled in 2015 and received very positive responses from the media and the public.

ONSIDE LIMITED - CANTERBURY

OnSide is an innovative health and safety system that will save lives in the rural community. Farmers that use OnSide have a virtual boundary around their farm called a 'geofence'. Within the geofence is a risk register, organised as informational pins on a map. Anyone that arrives at an OnSide farm is prompted by the mobile app to review risks and sign in. The risk map is always available and anyone can report new risks when they see them, in real time. OnSide uses smart location detection technology and digitally connects everyone to the risks and to a safety plan.

OPEN POLYTECHNIC – iQUALIFY – WELLINGTON

iQualify is a next generation digital learning and assessment platform, offering a powerful, learner-centred education experience for organisations that require a smart modern solution for the delivery of education, professional development and compliance testing. Through embedded social learning tools, iQualify provides collaborative learning, note-sharing and in-context discussions with classmates and facilitators. Online education is increasingly popular for time-poor learners, but is often an administrative interface rather than user-friendly. iQualify is Cloud-based and can support millions of learners, and can be branded by partners. iQualify can be accessed from all devices and offers seamless transfer. iQualify Build allows content authors to develop, share, license and import courses as well as connecting to existing student records.

PATTERNSNAP – MARLBOROUGH, NELSON, TASMAN BAY



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Patternsnap is a 'virtual' showroom sample database and catalogue digital app for designers and mobile salespeople. Intelligent search tools enable users to search and find similar products through image recognition, colour and keywords. Showrooms and retailers are on site for interior designers with this app, saving time and costs. Designers can group furnishings, wallpapers, and other objects to create mood boards for clients. Patternsnap has been presented to interior design trade shows, generating interest in the product. Patternsnap combines millions of samples from hundreds of independent product manufacturers into a single global database.

POP-UP GLOBE – AUCKLAND

The Pop-up Globe® was a full-scale, temporary structure and a working replica of Shakespeare's second Globe Theatre. The Pop-Up Globe® was constructed with an audience capacity of 900, and programmed with a festival of 128 live performances. The Pop-Up Globe delivered to sell-out crowds for twelve weeks, with two extensions due to high demand. Marketing the Pop-Up Globe® as a rare opportunity to experience the unique atmosphere of an open-air renaissance playhouse paid off as over 100,000 people attended the season. Marketing and communication, publicity opportunities, social media, targeted advertising and sponsorship all helped drive the success of the Pop-Up Globe®.

POSTR MEDIA LIMITED – POSTR LOCK SCREEN – WELLINGTON

Advertising on mobiles is a growth area but customers resent intrusive advertising that blocks content or has a time delay that forces engagement. Postr has taken a different approach, allowing customers to opt in to Postr, which places customised adverts on the lock screen of the customer's phone that is seen when they check their phone. Customers who opt in receive data rebates or free data from their service provider, who in turn benefit from a new revenue stream from advertisers.

PUSHPAY HOLDINGS LIMITED – AUCKLAND

Pushpay provides mobile commerce tools that facilitate fast, secure and easy non-point of sale payments between consumers and merchants. Pushpay targets merchants who need convenient, personalised and intuitive payment solutions for their consumers. Pushpay services three target markets: the faith sector; non-profit organisations; and small-to-medium enterprises. The Pushpay app can offer payment processing, text donations, personalised interfaces, event registration and other features, all via mobile. Pushpay continues to invest in its people, product and processes while experiencing rapid growth in the American target market.

QUOTIENT – WAIKATO

Quotient is a super-intuitive online quoting and proposal software that creates, sends and manages your quotes in the Cloud. Quotes can include images, files, and website links, and has an interface for customers to choose quantities, colour options, and multiple choice items. All selections are calculated automatically with easy-to-understand summaries and totals. Queries



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and notes can be added, keeping all information connected to the quote in one place. Terms and conditions are included and draft invoices can automatically be created in the customer's accounting software packages. Quotient provides a competitive advantage with a professional, and intuitive, quoting software that improves cashflow, increases conversion rates and adds value to businesses.

RANQX LIMITED - AUCKLAND

Ranqx is a simple value-adding software for financial advisors to use with small-to-medium business customers. Ranqx is business intelligence made easy with live financial benchmarks, scenario modelling, live customer feedback and NPS®. Ranqx is a Cloud-based tool that easily integrates with all major accounting software and trusted advisors, allowing businesses to view and share real-time business performance metrics and business intelligence insight into how they can improve their business performance against best practice.

REGEN NZ LTD – WATER AND EFFLUENT IRRIGATION SCHEDULING SERVICE – WELLINGTON

Regulations concerning wastewater and nitrogen leaching can be complex for farmers to navigate without technical support. Regen NZ's Water and Effluent Irrigation Scheduling Service combines best farming practices, regulations, weather, individual farm data on soil types. It sends farmers daily irrigation recommendations regarding effluent, and the optimisation of water and nutrient use, in order to reduce waste and improve water quality. Regen NZ uses in-field sensors, telemetry, pivot irrigation hardware, Cloud computing, nitrogen cycle models and mathematical algorithms to inform their proprietary software. Regen NZ sends irrigation recommendations to the farmer's mobile, reducing the risks of over-watering pastures, enabling farmers to work within their resource consents, and improving water quality for all.

ROBOTICS PLUS LIMITED – ROBOTIC APPLE PICKER – BAY OF PLENTY

Robotics Plus Limited has focused on developing intellectual property and through mechanisation, automation, robotic and sensor technologies have created robotic apple pickers and sorters for the growing international horticultural fresh fruit market. Making the robotic pickers available through low cost lease options has helped fruit growers trial the technology and in 2015 alone, the robotic apple pickers processed 3.5 million apples. The technology has applicability in other sectors as well, and is constantly being refined. The robotic apple picker ensures crops are not at risk from seasonal labour shortages, and manages repetitive tasks such as picking, sorting and packing.

SABRE TACTICAL LIMITED – MAKO™ TACTICAL K-9 HARNESS – WAIKATO

The MAKO™ Tactical K-9 Harness is a multipurpose harness design for Law Enforcement and Military Working Dog operations that enhance safety and capability. Innovative adjustment enables an individually tailored fit even when used across multiple dogs in a team. The MAKO™ harness has state-of-the-art stab resistant panels, GPS tracking, remote camera devices, lights, beacons, and the harness can be attached to helicopter winches, parachutes and other rescue



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equipment. While the safety of the dog is paramount, the harness does not compromise the speed, endurance and agility of the dog. Significant research and development has resulted in registered designs that have a potential global market.

SCION – BIOADHESIVES – BAY OF PLENTY

Engineered wood panels for interiors are held together by petrochemical adhesives. Scion has developed a 100% plant-based bioadhesive that is sustainable, renewable, locally sourced, and environmentally friendly. The biopolymer, lignin, is a key component readily available from forestry pulp; it is also cheap, formaldehyde-free, and has low toxicity. Removing petrochemicals from home interiors improves health, air quality, and reduces the risk of chemical inhalation during fires. Scion's Bioadhesive has the potential to differentiate New Zealand products in global construction markets that are searching for greater sustainability.

SIDEKICKER – AUCKLAND

Sidekicker is a temporary staff platform, allowing businesses to connect directly with casual workforces for events, promotional marketing, hospitality and business administration. Businesses can request temporary staff, select workers based on reviews or previous hire experiences. Workers are rated and reviewed for every job they complete, building a profile and experience. Low service fees and ease of use make this an attractive option for businesses. All workers are vetted and skill tested before being accepted onto the platform, ensuring quality staff for businesses looking for casual or temporary staffing solutions.

SIMPLICITY NZ LIMITED – SIMPLICITY KIWI SAVER – AUCKLAND

Simplicity has created an online KiwiSaver model that aims to reduce overheads and pass on the cost savings to customers, meaning that they will retire with more funds as the fee savings are reinvested. Simplicity is run by a charitable trust as a not-for-profit model. Only the costs are charged to the KiwiSaver customer. In addition, Simplicity will donate 15% of its management revenue per annum to charity. Online-based, the Simplicity platform has easy switching and aims to revolutionise the KiwiSaver market by giving New Zealanders options that are both financially and socially responsible.

THE SNOWBALL EFFECT – AUCKLAND

Snowball Effect is an online marketplace that provides access to a range of investment opportunities. Initially, Snowball was an equity crowdfunding platform launched in 2014, but the platform has diversified into private, public and wholesale offers. This broadened offering has developed as a direct result of feedback and demand from companies and investors, and the online infrastructure and processes have been adapted to cater for this new investor market. In terms of successful capital raising, Snowball claims to be the best performing national online private equity marketplace in the world, on a per capita basis.

SPARK VENTURES – AUCKLAND

Spark Ventures had a mandate to pursue the development of new business, new customer solutions and digital experiences. In three years, Spark Ventures has developed a portfolio of ten new businesses, generating significant revenue and engaging with more than 500,000 New Zealand customers in the highly competitive digital market. Lightbox, Skinny, and Qrious are examples of new Spark ventures that have made bold progress and achieved market penetration through aggressive marketing and the use of technology and telecommunications in novel ways.

SPRING SHEEP DAIRY NZ LIMITED PARTNERSHIP – AUCKLAND

Spring Sheep Milk Co is creating an end-to-end value chain for sheep milk from farm to marketplace, in order to expand into the primary industry of 'alternative dairy' supplies. Spring Sheep is currently selling sheep milk powder-based products to Taiwan and has plans to expand into gelato, butter, fresh milk and nutritional supplements in local and export markets. Sheep milk appeals to consumers due to digestibility, taste, and nutrition. Spring Sheep is marketing the products with a view to expanding the demand, and creating a new dairy industry with associated economic and environmental benefits for farmers.

SPRINGFREE TRAMPOLINE – TGOMA – CANTERBURY

TGOMA (Take Games Outside and Make them Active) has created a way of digitally encouraging outdoor trampoline play for children and adults. Fitness, education, games, goal setting, and connecting to the Global Community, are all a part of this smarter way to play. Using the appeal of digital apps to encourage exercise, TGOMA has used real trampoline data to make the experience immersive, and have reignited a traditional backyard favourite. The TGOMA app has been integrated into Springfree Trampolines.

SQUIGGLE – YOUNG ENGINEERS – WAIKATO

The Young Engineers programme teaches young people about Science, Technology, Engineering and Maths (STEM) in English, Hindi and Te Reo Māori, using practical activities and theoretical learning to develop problem-solving, creative critical thinking and communication skills. Students also learn that failure, trial and error, are essential to development processes. Squiggle has also launched the Young Animators programme, encouraging 2D and 3D animation skills in young children. Squiggle is removing barriers to learning through language, and by the use of portable container classrooms that make it easier for students to access the programmes.

STORMWATER360 – LITTA TRAP™ – AUCKLAND

Storm drains send plastics and other land-based waste into the oceans and waterways, causing environmental damage. Stormwater360 have developed the LittaTrap™ which is a lightweight,

low-cost drain insert which retains plastics and large rubbish objects while letting water drain through. The system is self-supporting, easily maintained, and can be emptied by hand, without the need for specialised vehicles. The LittaTrap™ is an accessible product that can be flatpacked for easy transportation. Ideal for public areas such as schools, where educating the next generation about wastewater management is an added benefit.

SUNFED LIMITED – AUCKLAND

Sunfed® is a high protein food system to make ‘meat’ directly from plants. Using clean technology, proteins are taken from plants and turned into Sunfed Meats® that taste, feel and cook like animal meat, but is a healthier environmentally-friendly option. The meat substitute market is a growing one with lifestyle trends and awareness of animal and human diseases associated with diet. Sunfed® uses proprietary technology to transform short unaligned plant protein fibres into long meaty fibres that have the sensory attributes of meat with the health benefits of plants. Sunfed® aims to bring New Zealand to the forefront of clean, green and sustainable food production.

SUSH MOBILE – NZ BLOOD SERVICE DONOR APP – AUCKLAND

The NZ Blood Service Donor App aims to connect with donors and encourage donations by developing the relationship and enhancing the experience. Donor ID, donation locations, appointment calendars, blood type, Facebook integration, donation history, urgent blood requests for specific types, and messages that inform donors when their blood was used to save a life, are all included in the app. The app is intended to drive donor recruitment and engagement, and to reduce operating costs. Showing donors how their contribution is valued will encourage them to give blood in the future.

SYNTHASE BIOTECH LIMITED – WAIKATO

Synthase Biotech has technologies that extend the shelf-life of stored biological products. The major cause of product degradation, ageing and cell death in all living tissue is damage caused by the oxidation of lipids (fats) in cells, which leads to decay. Synthase’s proprietary technology, Aloxsyn™, is a biological product that fully neutralises the toxic by-products of lipid oxidation. Initially tackling animal products, Synthase plans to focus on human health from 2020. Inappropriate oxygen control leads to tissue inflammation and oxidative damage to cells. Synthase has advanced capabilities for the detection and treatment of lipid peroxidation. Aloxsyn™ is already being tested in industry-standard disease models and demonstrates functional recovery in modelled heart attack and stroke scenarios.

TE IPUKAREA NATIONAL MĀORI LANGUAGE INSTITUTE – TE AKA DICTIONARY, TE REO MĀORI APP, AND TĀMATA TOIERE E-REPOSITORY FOR WAIATA AND HAKA – AUCKLAND

The core business of Te Ipukarea, The National Māori Language Institute, is the revitalisation of Te Reo Māori. Designing digital language resources for the Māori language, Te Ipukarea then expands resources for use with other endangered Polynesian languages such as Niuean, Tokelauan, and the languages of the Cook Islands. Projects such as the digital Māori Dictionary,



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the app version of the dictionary, and Tāmata Toiere, a digital repository of information and video resources about waiata and haka are valuable cultural resources developed by Te Ipukarea. By making digital resources, the culture and language engages young learners with easy bilingual interfaces, and social media connections. Te Ipukarea also increases the Māori digital footprint for resources and texts.

TE WHARE HUKAHUKA – ENABLING MĀORI LEADERS – AUCKLAND

Te Whare Hukahuka provides learning experiences to community leaders to provide them with the skills, resources and confidence to empower their indigenous community to address social inequality and determine their own future. Te Whare Hukahuka provides clarity about where to focus efforts, and the confidence to make progress. Complex business knowledge is taught using cultural contexts such as Māori analogies, digital tools and gamified activities to enable goal setting and the removal of barriers such as mistrust, risk aversion, and a lack of specialised skill sets. Te Whare Hukahuka enables Māori leaders, and provides support and advice to policymakers and communities.

THE MIND LAB BY UNITEC – POSTGRADUATE PROGRAMME – AUCKLAND

Technology is transforming the way we live and work, and The Mind Lab is addressing the use of technology in the way we learn and teach. Education must prepare students for jobs that do not yet exist. Through nationwide Postgraduate Programmes, School Group visits and School Holiday Programmes, The Mind Lab sets out to adequately prepare creative flexible-thinking students for a tech-based future, by providing educators with the opportunity to extend their capability in new technologies and practices that enhance student achievement, and bring education into the present day. The programme's flexible delivery makes it accessible to teachers, with considerable benefits for schools and students.

THOUGHT-WIRED – NOUS™ – AUCKLAND

Thought-Wired is creating nous™, a thought-controlled communication solution for people who cannot move or talk because of profound disabilities. Pairing nous™ software with existing brain-sensing devices allows for the detection of thought patterns and translation into signals. Nous™ helps the user perform actions such as selecting words on a computer screen. Using a gamified training environment to provide the user with learning support, nous™ works with headsets and is currently aimed at language communication, but can be adapted to operate objects controlled by technology such as lights, heating, even a bionic limb. Thought-Wired intends to develop this technology further and expand its capabilities.

TOI WHAKAARI - NZ DRAMA SCHOOL – RUKU AO – WELLINGTON

Ruku Ao is a collaborative development initiative facilitated by Toi Whakaari: New Zealand Drama School. It brings together leaders from government, business, community, the arts and iwi in a year-long adult education learning process that enables them to respond more innovatively to the challenges in their own contexts using marae and arts-based frameworks. Ruku Ao equips networks of adaptive leaders to find collaborative solutions to complex



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challenges, and is an exemplar of how arts-based training can add value to business, government and industry in empowered and contemporary ways.

VAULT IQ NZ LIMITED – CANTERBURY

Vault IQ builds standards-compliant Environment Health & Safety (EHS) management Cloud systems for businesses. Australian investment capital will allow Vault IQ to expand geographically with language and regional compliance additions to the existing software. The rapid rise of mobile use as the preferred access method has driven the product development. Vault IQ saw a gap in the EHS market that needed to be filled, and the initiative for software innovation and capability grew from there.

VIRTUAL MEDICAL COACHING LIMITED – CANTERBURY

Expertise is directly linked to the time devoted to practise, but that is not always achievable in the medical and health professions. Virtual Medical Coaching provides medical-imaging simulation solutions to universities so they can provide realistic, modern, safe, and immersive simulation to students, without the associated costs of using actual medical equipment. The virtual teaching environment uses up-to-date medical equipment and can collect objective performance data during training sessions for both students and tutors. Simulation practise has been shown to reduce medical errors, and the completely immersive medical-imaging training suite by Virtual Medical Coaching provides realistic experiences, and utilises gamification methods to further engage with students.

VOLPARA HEALTH TECHNOLOGIES LIMITED – WELLINGTON

Volpara's software provides volumetric assessment of breast tissue density to assist radiologists when screening for breast cancer. By quantifying the density of breast tissue, the subjective guesswork is removed, making the scanning more effective and using lower doses of radiation than might otherwise be used during the scan. Having information about breast density can also guide options for further imaging and patient-specific radiation doses and compression. Volpara is improving patient experience and clinic efficiency.

WINEFRIEND – AUCKLAND

WineFriend was created to take the hassle and guesswork out of enjoying a great bottle of wine at a reasonable price, delivering a personalised selection of wines to your door. To broaden tastes, every sixth bottle is a wild card wine made from unusual varietals. Customer feedback refines the personalised selections so the service gets smarter. WineFriend takes the struggle out of choosing wines, and the profile questions enable us to match wines to individual taste preferences. WineFriend endeavours to assist the consumer while maintaining fair prices for suppliers and vineyards.

WINE GRENADE – AUCKLAND



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Wine Grenade allows winemakers to create great wine, in less time, through micro-oxygenation. Wine Grenade's smart, internet-connected devices and patented oxygen diffusion process delivers superior results, faster, and with less expense. Wine maturation requires oak barrels or expensive micro-oxygenation tanks that are prohibitive for smaller wineries. The Wine Grenade simplifies the micro-oxygenation process and makes it affordable. It can be controlled remotely and constantly uploads data for future insight and analysis. The Wine Grenade has generated global interest from the winemaking community which produces nearly 7.8 billion litres of wine per annum.

ZESPRI – SUNGOLD KIWIFRUIT – BAY OF PLENTY

When the New Zealand kiwifruit industry was decimated by a vine-killing pathogen six years ago, new bacteria-resistant cultivars were immediately developed, utilising resources committed to the crisis by Zespri, Plant and Food Research (PFR), and the government. The resulting Zespri SunGold kiwifruit has been a stunning commercial success, delivering over a billion dollars of sales, and is on target to generate about \$40 billion over its Plant Variety Rights (PVR) life. SunGold is popular with consumers around the world, driving up demand, earning premium prices and generating value for growers, and allowing the kiwifruit industry to recover. Zespri has now licensed SunGold to be globally grown to ensure year-round supplies, and continues to invest millions annually into kiwifruit varieties for commercialisation.

INDIVIDUAL AWARD FINALIST EDITORIAL

ALEJANDRO DAVILA (CONICAL VR) – AUCKLAND

Alejandro Davila had years of experience in film-making and animation before making the leap to Virtual Reality. Seeing the potential in Virtual Reality as a storytelling medium, Alejandro immersed himself in it. Leading a small team at Conical VR in Auckland, Alejandro has also worked with AUT's CoLab. Conical VR works on advertising projects and has created New Zealand's first VR movie, 'The Green Fairy', about fairies that light up the inside of traffic lights. 'The Green Fairy' was a big hit when launched at the Auckland Library Storytelling sessions. Alejandro believes that VR engages people emotionally in a story. Alejandro describes himself as an 'experience designer'. Conical VR has also developed a fast-turnaround system to deploy Virtual Reality content through the programming of various plugins and pipelines for VR production.

ALISTAIR SCARFE (ROBOTICS PLUS) – BAY OF PLENTY

Dr Alistair Scarfe has a PhD in Industrial Automation and six years' experience developing horticultural robotics. Autonomous kiwifruit harvesters, apple packers and robotic apple pickers are all part of the Robotics Plus project platform. A distinction with the Robotics Plus machines is that they have sensing technology and are smarter than the average industrial robot. Instead of being purely mechanical in its movement, the Robotics Plus Apple Packer can identify where the apple core and stalk is, and can rotate the apple for accurate packing. Alistair believes that growing opportunities exist to develop innovative projects in New Zealand. From the New Zealand testing ground, Alistair aims to push innovations out to overseas markets.

JAMIE BEATON (CRIMSON CONSULTING) – AUCKLAND

Jamie Beaton is an evangelist for data-driven self-improvement and his educational model relies on tutoring from experts in their field, and mentoring students towards lofty educational goals. Acquiring Angel investor capital of NZD\$1.4 million to launch, Crimson Education has already returned that investment twenty-fold, as the company expands and attracts heavy investment from the USA. Jamie believes in getting your education from the ‘best tutor available’ instead of taking chances with the teacher at your local school. Learning outside the classroom meant Jamie could learn five times faster. His results-driven methodology is appealing to students, parents and investors. Jamie is about to complete two concurrent degrees at Harvard and is working towards a Master’s Degree in Applied Financial Mathematics. He is a driven, energetic negotiator and likes to make things happen.

JENE NE CROSSAN (FLOSSIE.COM) – AUCKLAND

Jenene has over twenty-one years’ experience in the digital arena and has founded a number of well-known digital brands. She is constantly creating, inventing, failing, learning and investing in new ideas and progress. Jenene has worked in project management and web development from a young age, launching a number of online social magazines, often with a focus on women. Jenene believes progress comes from insight, curiosity and listening to customer experiences. Her track record has attracted major investors over the years and she continues to develop new digital projects such as ‘Flossie’. Jenene’s core belief is that innovation comes from people who are comfortable with change and their own vulnerability, who have a willingness to be wrong and do things differently, and who ‘just keep on starting’.

KATHERINE HOLT (MASSEY UNIVERSITY) – MANAWATU – WANGANUI

Katherine Holt is a Senior Lecturer at Massey University with a Doctorate in Philosophy (Earth Science). She conducts research on a number of focus areas. Katherine’s research involves commercial pollen analysis, and the use of pollen to reconstruct ancient vegetation and other aspects of the environment. Katherine is also developing systems for the automated identification of pollens and for airborne pollen samplers. In line with her research on pollen, Katherine also performs commercial analysis of honey samples for quality assessment. Current projects include the development of a pollen-based proxy for UV radiation in New Zealand and the use of pollen in dating sediment. Katherine also works closely with students in her role as Senior Lecturer.

KERMAN KOHLI (THE APP SHOP) – AUCKLAND

Kerman Kohli started teaching himself app development at the age of twelve, and by the age of fourteen had developed the Homework App, which has over a million downloads. In order to create the app, Kerman learnt complex coding and interface design and embarked on a steep learning curve with database management. Kerman is kept busy with schoolwork and the constant need for updates and the development of his other app, Ed.Life. Monetising his apps

through subscription Pro versions and ads, Kerman strives to keep his teen audience engaged by keeping his app current. Now eighteen, Kerman is looking ahead to University.

LILLIAN GRACE (FIGURE.NZ) – AUCKLAND

Lillian Grace believes that data access and understanding is key to thinking, insight, future collaboration and design. Lillian established Figure.NZ as a charity, operating as a social enterprise to collate, aggregate and share data. Figure.NZ aims to enable everyone to make sense of data in order to clearly see New Zealand's social context and economic landscape. Data literacy is not useful when information is hard to find or is spread over hundreds of sites, so Lillian has led teams to build systems and software for Figure.NZ. This software converts spreadsheets and pdfs, collected from numerous organisations with non-aligned standards or formats, into machine-readable form. Figure.NZ then makes the information available in an easy interface for users as part of a 'free data democracy' to enable better decision-making and understanding. Lillian believes that data is a language in which everyone should be fluent and that the first step of that process is making data available.

ROSS MCCARTHY (AIR WAVE) – OTAGO

Ross McCarthy was a student when he first came up with the concept for Air Wave. Air Wave is an artificial wave-generating simulator. It uses patented air cell technology to provide the simulation with a variety of waves instead of a standard front wave. Ross took his concept to venture capitalists and received start-up investment. Once he began the development process, he discovered that he could do more things with the air cells than merely create front waves. The size, direction and type of wave can all be adjusted easily, making the Air Wave a suitable leisure and training environment for beginners and experienced surfers, wake boarders, water skiers and wake skaters. The air cell technology is directional and fully controllable, so the safety aspect of the Air Wave makes it suitable for markets which had previously rejected wave-making simulators that had poor safety records. Ross believes that if you have a good idea, you should persist and keep trying to find investors. It can take time, and hard work, but eventually you can achieve your goals.

RUSSELL BURT (MANAIAKALANI EDUCATION TRUST) – AUCKLAND

Russell Burt has been an educator for over thirty years, working as both a teacher and as a school principal. Russell has worked on secondment with the Ministry of Education, addressing a range of issues related to lower socio-economic access to education. Russell helped develop ways of improving low-decile schools and also worked on projects that ensured the provision of quality staff to New Zealand schools. Russell has worked at the forefront of digital technology and has been involved in many community-building activities. Manaiakalani began its journey in 2007 with the aim to make education more engaging and to improve the educational outcomes for children in low-decile schools. Manaiakalani provides programmes of study, evaluation and resourcing through novel approaches. The success of Manaiakalani has been in the progress made by the students of Tamaki over the past nine years.