

FINALIST DESCRIPTIONS

INNOVATION IN AGRIBUSINESS AND ENVIRONMENT

FARM MEDIX – CHECK-UP MASTITIS DIAGNOSTIC TOOL – AUCKLAND

Mastitis (an infection of the udder) costs farmers time and money. Testing usually involves sending away samples to a laboratory. CHECK-UP® is a simple-to-use, on-site mastitis diagnostic tool that allows a farmer to identify mastitis and target treatment more effectively. This introduces greater efficiencies in milk production and ensures better milk quality.

FARMIQ SYSTEM – WELLINGTON

The FarmIQ System is cloud-based farm management software that helps farmers maintain records on sustainable land and water management, animal health and welfare, and food safety around chemical withholding periods. Developed in conjunction with farmers and the beef industry, the FarmIQ System helps communicate meat quality standards between the producers and the meat retailers and gives greater efficiency to the farm recording processes.

FIBRE-GEN - HITMAN PH330 – CANTERBURY

The timber industry is becoming increasingly automated and loses money on milling logs that turn out to be of insufficient quality and strength for construction purposes. The Hitman PH330 is an acoustic tool that sonically tests the tensile strength all the way up the tree before harvest, allowing the tree to be segregated into construction strength timber, and timber for other uses. This tool reduces waste and saves money in the timber industry.

HIVEMIND – REMOTE HIVE MONITORING – CANTERBURY

Hivemind utilises wireless technology, embedded GPS trackers and weight scales to enable bee-keepers to monitor hives remotely for theft, yield, and ambient temperatures. Hivemind allows for optimisation of honey harvesting in order to encourage greater productivity and sustainability.

PASTORAL ROBOTICS – NITRATE RECOVERY – AUCKLAND

Intensive farming has an unwanted by-product, livestock urine. It creates problems for the soil and waterways through nitrate leaching. Pastoral Robotics have created a low-labour automated robot that will move around paddocks, sensing and treating fresh cow urine patches with a patented agricultural liquid antidote, safely reducing nitrate leaching by 75%. By treating the problem on the spot, the farmer avoids costly indoor farming and feeding alternatives.

PLANT AND FOOD RESEARCH – RESPONSE TO PSA – AUCKLAND

The New Zealand kiwifruit industry was decimated by the vine-killing pathogen 'Psa' five years ago, with the popular variety Zespri® Gold being particularly susceptible to the bacteria. Plant and Food Research responded to this crisis by committing resources to fast tracking the development of new, bacteria-resistant cultivars of Zespri® Sungold. This has allowed the kiwifruit industry to recover.

SCOTT TECHNOLOGY – LAMB FOREQUARTER CUT AUTOMATION SYSTEM – OTAGO

Meat processing is becoming increasingly automated to increase labour safety and to reduce bacterial contamination in meat products. Scott Technology have developed a system that uses high speed laser scanning to create a 3D model of individual carcasses, allowing the industrial robot to accurately cut each forequarter quickly and safely.

SNAP INFORMATION TECHNOLOGIES – GLOBAL SUSTAINABLE FISHERIES – NELSON

Regulating the fishing industry has always been difficult. Current systems for monitoring catches and dumping, while at sea, are expensive, difficult to install, and use a lot of manpower to interpret footage from multiple camera feeds. SnapIT have developed a low-cost, highly efficient, automated monitoring system that uses 360-degree cameras, and wireless feeds from ships at sea.

SUPREME BIOTECHNOLOGIES – NELSON

Astaxanthin is a potent natural antioxidant with many beneficial effects on human health, and it is harvested from a type of microalgae that is difficult to grow commercially. There is a huge demand for astaxanthin worldwide, and Supreme Biotechnologies NZ has developed a proprietary indoor facility. Using a sophisticated photo bioreactor system, they produce optimal yields of astaxanthin, which they market under their own brand, AstaSupreme.

TERAX 2013 - TERAX WASTE CONVERSION TECHNOLOGY – BAY OF PLENTY

Urban bio-waste is difficult and expensive to dispose of due to environmental and contamination issues. Terax's waste conversion technology treats bio-waste as a recyclable resource. The cost-saving process reduces the wastewater, eliminates organic solids, sterilises them, and recovers useful components such as nitrogen and carbon for recycling.

UBCO – UBCO 2X2 – BAY OF PLENTY

The UBCO 2x2 is an all-wheel drive electric motorbike with rural and urban applications. Lightweight, quiet, and with excellent handling and performance in all terrains, the UBCO 2x2 has a huge load capacity for carrying equipment, and its lithium batteries can charge tools and electronic devices on site when working remotely. All with a running cost of 60 cents per 100 kilometres.

INNOVATION IN DESIGN AND ENGINEERING

BBC TECHNOLOGIES – CURO – WAIKATO

Berry packing just got faster with the CURO platform which provides a high-speed, packing platform for a wide range of soft berry fruits. Able to pack all types of berries gently, and in a wide variety of retail containers and weights, the CURO will speed up the process by packing 2000 kilograms per hour. Modular and compact, the CURO weighs product accurately for greater consistency.

BISON GROUP – BISON WEIGHING JACKS – OTAGO

Overweight shipping containers are hazardous, and from next year, it will be mandatory to verify the weight of containers with calibrated equipment. Bison saw this opportunity and created Weighing Jacks that allow the container's weight and weight distribution to be measured accurately on site, with the data automatically uploaded to a cloud database using Bluetooth technology. Robust and cost effective, the Bison Weighing Jacks are fast and easy to use, without the need for heavy lifting machinery.

FLETCHER WINDOW AND DOOR SYSTEMS - SMARTFIT® – AUCKLAND

The installation of windows during building construction is a fiddly business with multiple layers of weatherproofing to be added. Smartfit® has created windows with all of the flashings, seals, sill supports and weatherproofing already added in the factory, creating windows that are easier to fit, faster to install, and with superior weather tightness. Smartfit® is fully patented, CodeMark certified and BRANZ appraised.

HOLMES SOLUTIONS – REVOLUTIONISING ADVENTURE RECREATION – CANTERBURY

The adventure recreation market depends on its safety record in high-risk activities. One barrier to growth was the need for a safety partner with the skill to 'belay' or brake one's fall with a rope. The invention of a patented, self-regulated, non-contact, no-wear, magnetic braking technology, has allowed Holmes Solutions to capture a global market, by revolutionising safety for users of all ages, sizes and weights.

MAGIC MITTEN – GRO HUSH – AUCKLAND

The Magic Mitten is a patented baby calming aid designed by three Kiwi dads. Highly effective at calming upset babies, using safe decibel levels of white noise, the Magic Mitten is ergonomic, portable, and an easily-used hands-free device. The Magic Mitten is now marketed in Europe as the Gro-Hush.

METHVEN – AURAJET™ SHOWER SPRAY TECHNOLOGY – AUCKLAND

Domestically, a quarter of water consumption is used in showering, and Methven have developed the Aurajet™ Aio shower range to give an invigorating shower, with less water consumption. The halo-shaped shower uses spray technology that causes jets of water to collide with precision, increasing the spray force and giving the user a great shower with no loss of rinsing pressure.

OGO TECHNOLOGY – OGO – MANAWATU-WANGANUI

Ogo is an electric mobility device (wheelchair) with hands-free control due to its unique intuitive 'active seat' control. Current electric wheelchairs have limitations on where they can go, and are difficult to manoeuvre. The Ogo can travel at speed and off-road, and the 'active seat' innovation for steering and controlling the device also strengthens core muscles. Lightweight and responsive, the Ogo will give greater freedom to the mobility-impaired.

REVISIA – INDUSTRIAL 3D INNOVATION – AUCKLAND

Industrial shutdowns due to maintenance, error or outage are costly as production comes to a standstill. Revisia uses 3D imaging and visual technologies to create clear and interactive instructions for complex engineering, construction, and maintenance projects. Revisia increases safety, boosts worker performance, and speeds up turnaround times on industrial plant shutdowns.

SCION – WOODFIBRE DICE – BAY OF PLENTY

Manufacturers are looking for lightweight eco-friendly ways of reducing carbon emissions and their reliance on petrochemical plastics. Wood fibres can be used to reinforce thermoplastic polymers to create products that are stronger,

stiffer and have greater thermal stability than the plastic on its own. Scion's patented technology enables commercial production of wood fibre 'dice' which can be inserted into machinery releasing wood fibres into the polymers. The result is a more stable and rigid plastic that is less abrasive in machinery and more recyclable.

TIRO LIFESCIENCES – ZERO RADIATION BREAST SCREENING – CANTERBURY

Zero radiation, zero compression, zero pain! Breast Cancer is the second leading cause of cancer death in women, and traditional mammography fails to detect over 50% of cancers in older at-risk women. Tiro Lifesciences have developed a low-cost method for breast cancer screening that vibrates the breast tissue and uses software to identify changes in the tissue that indicate cancer. Made with readily available materials, the Zero Radiation Breast Screening technology can be used anywhere in the world.

UBCO – UBCO 2X2 – BAY OF PLENTY

The UBCO 2x2 is an all-wheel drive electric motorbike with rural and urban applications. Lightweight, quiet, and with excellent handling and performance in all terrains, the UBCO 2x2 has a huge load capacity for carrying equipment, and its lithium batteries can charge tools and electronic devices on site when working remotely. All with a running cost of 60 cents per 100 kilometres.

INNOVATION IN FINANCIAL AND PROFESSIONAL SERVICES

BANQER – WELLINGTON

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, tax payments and to view interest accruing on savings.

HARMONEY – PEER TO PEER MARKETPLACE – AUCKLAND

Peer-to-peer lending brings communities of borrowers and lenders together directly, cutting out the middle layers of banks and offering decent returns on investment. Harmoney is New Zealand's first, and only, peer-to-peer money marketplace, and is experiencing rapid growth and uptake. The online platform offers fast, easy, and transparent lending and investment options. Harmoney's unique loan Fractionalisation allows investors to spread their investment over a large number of loans, further reducing their risk or exposure to any one borrower.

KAMI – AUCKLAND

Kami (formerly Notable PDF) is an all-in-one online office suite developed to improve document workflow and to allow editing, annotating and collaborating on a wide range of documents such as PDFs and Microsoft Office. With the rapid uptake of Chromebooks as schools around the world move to paperless environments, Kami allows users to interact online with documents created in a variety of formats.

KOWHIRI – AUCKLAND

Today's consumers are time-poor, digitally savvy, and disengaged from traditional legal processes. Noting the low uptake with wills and estate planning among the under-50 age group, Kowhiri has launched a number of online products that allow consumers to create digital wills, access estate planning services, use secure digital vaults and national registers. These products help consumers plan for their futures and they provide a social benefit as well.

MONTOUX – LIFE INSURANCE PRODUCT DEVELOPMENT APPLICATION – WELLINGTON

The insurance industry is based on actuarial modelling of risk, and the existing software focuses on the specialist complex modelling or on the business side. Montoux is revolutionising insurance product development by offering a faster, smarter way to model and analyse actuarial information in order to develop life insurance products. Montoux's cloud-based applications maximise financial performance and profitability by liberating the industry and providing user-friendly tools.

SEMBLE – AUCKLAND

Semble is a unique intra and cross industry collaboration between banks and mobile phone providers that allows consumers to use a phone app like a bank card. They can pay, use public transport, and soon will be connected to loyalty cards, vouchers, coupons and more all through a single customisable app on a Smartphone. Semble successfully brought multiple providers together to streamline resources and costs and to expand accessibility to businesses.

SHIPIT – AUCKLAND

ShipIT simplifies and automates the process of delivering online and offline orders. The ShipIT cloud-based app integrates with a multitude of e-commerce, accounting, courier, and inventory management systems in Australasia and globally, allowing ShipIT to automate the labelling, address checking, and couriering of ordered goods. Fulfilling online orders is time consuming for businesses, but ShipIT streamlines and automates the processes, making businesses more efficient and sustainable.

WESTPAC – WESTPAC ONE – AUCKLAND

Online banking across platforms can be confusing when the interface is different for each device. Westpac completed revamped their interface, named Westpac One, to create a seamless and intuitive consumer experience across all devices. Innovative services such as Spending Meter, Card Custodian and Symphony have been introduced. Westpac plans to use the same interface for staff and customers alike, allowing for better communication, service and assistance in digital lending and banking.

INNOVATION IN FOOD AND BEVERAGE

AHI KA TONICS – AUCKLAND

Ahi Ka Tonics have drawn on traditional Maori herbal remedies to produce a range of natural and organic teas that appeal to the health conscious consumers in the beverage market. Uniquely from Aotearoa, the products are locally sourced and branded.

BBC TECHNOLOGIES – CURO – WAIKATO

Berry packing just got faster with the CURO platform which provides a high-speed, packing platform for a wide range of soft berry fruits. Able to pack all types of berries gently, and in a wide variety of retail containers and weights, the CURO will speed up the process by packing 2000 kilograms per hour. Modular and compact, the CURO weighs product accurately for greater consistency.

EAT MY LUNCH – AUCKLAND

Child poverty is unfortunately very much an issue in New Zealand, and Eat My Lunch is a social enterprise that has launched as a response to knowing that too many kids were going to school without a lunch every day. Customers go online to buy a nutritious lunch for themselves and a healthy lunch for a needy kid at the same time, on the principle of Buy One, Give One. Harnessing people power via social media has successfully launched this enterprise with no advertising budget.

ECOSTORE – CARBON CAPTURE PAK™ - AUCKLAND

The reliance on fossil fuel-dependent petrochemical plastics has ended at ecostore as they have converted their entire range of bottles to plastic made from renewable, and sustainably grown, sugarcane. These recyclable bottles are called Carbon Capture™Paks because they capture carbon dioxide from the atmosphere instead of releasing it through petrochemical processing, thereby helping reduce greenhouse gases.

FONTERRA RESEARCH AND DEVELOPMENT CENTRE – MILK FINGERPRINTING – MANAWATU-WANGANUI

The quality of milk can vary from farm to farm and can vary due to weather and season. This can cause processing problems and supply chain delays. Fonterra's world first Milk Fingerprinting is new analytical technology that can rapidly measure milk samples and gather a unique fingerprint that can be used to cost-effectively guide tanker scheduling, milk processing decisions and enable Fonterra to extract the maximum value from dairy farmers' milk products.

GENEVIEVE'S – LONG SHELF LIFE PATES – AUCKLAND

Dedicated to additive-free foods, Genevieve's have spent years perfecting recipes and heat preserving methods that create tasty, long shelf-life pates with no preservatives. Previously, products only lasted three weeks, or had to be canned. The recipes, cooking, and preserving methods used by Genevieve's have created a safer, more nutritional food product with a longer shelf-life for retailers.

KARMA COLA – AUCKLAND

Karma Cola built a Fairtrade relationship with cola nut farmers in Sierra Leone, and blends Karma Cola from naturally sourced Fairtrade ingredients. Glass bottles, delicious taste, transparency about ingredients, and the avoidance of chemical preservatives have made this a successful product in the cola market. The Karma Cola Foundation's integrity and socially responsible business model ensures that proceeds return to Sierra Leone to build independence and sustainability for cola farmers.

THE PURE FOOD CO – TEXTURE MODIFIED MEALS – AUCKLAND

Disability, injury, and age-related difficulties can all result in problems with chewing, swallowing or digesting. Ensuring that patients get the right nutritional mix is essential when consumption is limited. The Pure Food Company has formulated delicious and nourishing texture-modified cuisine for both individuals and care-providers such as rest homes and hospitals. Cost-effective and easy to provide, these texture-modified meals have improved the health outcomes and quality of life for many people.

VERITIDE – FOOD CONTAMINATION SCREENING – CANTERBURY

Preventing contaminated meat from leaving a processing plant is better than trying to recall food products after they have been sent out to retailers. Food safety is a growing concern and, traditionally, test swabs took 2-3 days to process. Veritide provides real-time screening for contaminants, such as faecal bacteria, inside meat processing plants, using carcass scanners. If bacteria is identified, then processors can initiate remedial action immediately, resulting in fewer public health problems, longer shelf life and reduced spoilage in the food supply chain.

WINE GRENADE – AUCKLAND

The Wine Grenade is a simple and cost effective tool that helps winemakers produce great tasting wine through the process of micro-oxygenation, without the need for expensive electric tanks. By introducing precise amounts of oxygen to their wine, in the right way and at the right time, winemakers are able to use the Wine Grenade to mimic the maturation that has traditionally taken place in oak barrels.

INNOVATION IN HEALTH AND SCIENCE

ARANZ MEDICAL – FASTSCAN II – CANTERBURY

Measuring the rate of healing of wounds and ulcers is of particular importance with chronic care and conditions, such as diabetes, where an ulcer or poorly healing wound can lead to sepsis or amputation. ARANZ's Silhouette scanner takes measurements and images to show the rate of healing and wound change over time, allowing better monitoring and patient care. ARANZ has also developed the FastSCAN II, a 3D system that helps custom fit orthotics and prosthetics more comfortably, and accurately, for patients.

CONFITEX – AUCKLAND

Confitex has replaced traditional absorbent pads for incontinence with regular underwear made from absorbent fabrics. The wide fashionable range for men and women reduces landfill by being washable and reusable. Incontinence problems can restrict engagement with activities and can cause depression in sufferers, but Confitex underwear improves these outcomes for a wide range of users.

HEALTHPOINT - NEXXT™ - ENABLING BEST PRACTICE – AUCKLAND

Patients experience variations in care across healthcare providers as not all practitioners are aware of current specialist recommendations for each health problem presented to them. Healthpoint has developed Nexxt™, a personalised patient clinical pathway tool that allows doctors and health professionals to map an individualised treatment plan for a patient based on current medical trends, information and best practice at a specialist level. By also collecting data, the system learns and refines its recommendations for all users.

KODE BIOTECH – KODE TECHNOLOGY ANTI-CANCER TREATMENT – AUCKLAND

Cancer is a global problem, and Kode Biotech has been focused on the development of cell surface membrane modification technology in the fight against tumours. Synthetic animal antigens are used to modify the cancer cell surface membrane and encourage the body's natural immune response to attack the cancer tumour cells. Kode Biotech's lipid technology will be used in Agalimmune's clinical human trials of their cancer immunotherapy molecules next year.

OPHTHALMICDOCS – ODOCS EYE CARE – EAST COAST

Emergency eye care diagnosis, referral and treatment is slow, unresponsive and expensive, involving specialised equipment that is beyond the financial reach of most GPs and community health clinics. OphthalmicDocs (oDocs) improves these outcomes by creating a portable eye care kit that uses a 3D printer and a Smartphone to create ocular imaging adaptors that take pictures of the eye and retina. The app sends medical information and the eye images to the nearest available ophthalmologist, anywhere in the world, for fast diagnosis and treatment recommendations.

RHONDIUM – OVC – BAY OF PLENTY

When teeth fracture, they either require a large filling as a short-term solution, or a costly crown that is traditionally custom-made in a two dental visit process. The Rhodium One Visit Crown supplies dentists with a ready-made range of crowns which can be fitted in one visit, thereby reducing cost and inconvenience. The One Visit Crowns remove the need for impressions, technicians and multiple anaesthetic injections, making them simple and cost effective for both patient and dental practitioner.

TIRO LIFESCIENCES – ZERO RADIATION BREAST SCREENING – CANTERBURY

Zero radiation, zero compression, zero pain! Breast Cancer is the second leading cause of cancer death in women, and traditional mammography fails to detect over 50% of cancers in older at-risk women. Tiro Lifesciences have developed a low-cost method for breast cancer screening that vibrates the breast tissue and uses software to identify changes in the tissue that indicate cancer. Made with readily available materials, the Zero Radiation Breast Screening technology can be used anywhere in the world.

UNIVERSITY OF AUCKLAND – SPARX – AUCKLAND

Depression is a growing problem, and many young people are profoundly affected. SPARX helps young people struggling with stress and depression through 'gamified' online therapy. Development was based on Cognitive Behavioural Therapy and uses playful, exploratory strategies in order to engage young people. Recognised for its quality, scientific rigour, and innovation internationally, SPARX has been made freely available to all New Zealanders.

INNOVATION IN INFORMATION COMMUNICATIONS TECHNOLOGY AND CLOUD SOLUTIONS

8i – WELLINGTON

8i media technology and software allows anyone to convert standard digital video into 3D quickly and inexpensively. Augmented and Virtual Reality are the future of gaming, films and marketing, but such systems often use a single perspective, while 8i allows greater interaction with highly realistic 3D digital characters on a wide range of devices.

EYEDENTIFY – EMPOWERING PARTNERSHIPS TO PREVENT CRIME – AUCKLAND

Theft costs local businesses \$2 million per day, but the high volume thefts are often of low value items, so the high cost of recovery or reporting causes many thefts to go unreported. Eyedentify helps businesses reduce crime by connecting them quickly with Police and allowing an information exchange through their crime management and prevention platform. By linking information, detecting patterns, gathering CCTV, licence plate and facial recognition software, into the package, we create actionable intelligence for the Police resulting in crime prevention and arrest results.

FARMIQ SYSTEM – WELLINGTON

The FarmIQ System is cloud-based farm management software that helps farmers maintain records on sustainable land and water management, animal health and welfare, and food safety around chemical withholding periods. Developed in conjunction with farmers and the beef industry, the FarmIQ System helps communicate meat quality standards between the producers and the meat retailers and gives greater efficiency to the farm recording processes.

KAMI – AUCKLAND

Kami (formerly Notable PDF) is an all-in-one online office suite developed to improve document workflow and to allow editing, annotating and collaborating on a wide range of documents such as PDFs and Microsoft Office. With the rapid uptake of Chromebooks as schools around the world move to paperless environments, Kami allows users to interact online with documents created in a variety of formats.

PROJECTMANAGER.COM – AUCKLAND

ProjectManager.com has revolutionised the online project management world by giving users a 'real time' view of their project status. Traditional project management tools involve spreadsheets and manual calculations that provide outdated information. ProjectManager.com provides global businesses with large scale instant data reporting tools that free up managers and improve productivity.

SEMBLE – AUCKLAND

Semble is a unique intra and cross industry collaboration between banks and mobile phone providers that allows consumers to use a phone app like a bank card. They can pay, use public transport, and soon will be connected to loyalty cards, vouchers, coupons and more all through a single customisable app on a Smartphone. Semble successfully brought multiple providers together to streamline resources and costs and to expand accessibility to businesses.

SHIPIT – AUCKLAND

ShipIT simplifies and automates the process of delivering online and offline orders. The ShipIT cloud-based app integrates with a multitude of e-commerce, accounting, courier, and inventory management systems in Australasia and globally, allowing ShipIT to automate the labelling, address checking, and couriering of ordered goods. Fulfilling online orders is time consuming for businesses, but ShipIT streamlines and automates the processes, making businesses more efficient and sustainable.

SHUTTLE ROCK – CANTERBURY

The proliferation of platforms for promoting your product or service and providing updated content can be daunting and time-consuming. Shuttlerock is a platform that allows you to update your business information in one place, and Shuttlerock does the rest, posting across platforms like Facebook and giving your business an online presence. Shuttlerock also gathers customer comments and images from across the channels and uses it to generate content for your online web presence.

TIMELY – OTAGO

Timely provides cloud-based scheduling software for service industries such as salons, clinics, trainers and other booking-based businesses. Timely was developed to address the needs of a growing service sector rapidly moving towards cost-effective cloud-based systems, and remote working in lifestyle industries.

VMOB – INTELLIGENT PERSONALISATION PLATFORM – AUCKLAND

Online shopping has impacted on retail store sales, and VMob has developed a mobile marketing app that uses data analytics to personalise the user experience and target offers to shoppers. Mobile app personalisation is fast and drives foot traffic, improves sales, increases transaction value, and encourages return visits to retail outlets.

WEIRDLY – AUCKLAND

The future of business is in bringing like-minded individuals together who are engaged and passionate about what they are doing, as this makes them more productive and loyal to the company. Weirdly has developed a product that helps recruit teams based on how likely they are to love your business, by filtering them based on core brand values, cultural fit and fulfilment. It is cheaper, and simpler, than traditional recruitment agencies, and organisational culture gives companies a competitive advantage when attracting top talent.

YOURDRIVE – AUCKLAND

Your car is an expensive asset that spends a lot of time not being used. YourDrive is an online platform that lists vehicles for person-to-person car sharing. People rent on an hourly, daily or, weekly basis. The safe marketplace creates an income stream for owners and flexible, varied, and cheap vehicle rentals for users.

INNOVATION IN MARKETING AND COMMUNICATIONS

COLENZO BBDO/VOLKSWAGEN – REDUCE SPEED DIAL – AUCKLAND

Safety and innovation are at the forefront of Volkswagen's ethos in engineering safer cars. The Volkswagen Reduce Speed Dial replaces traditional Speed Dials with a personalised display that reminds drivers of why they should avoid risky speeds when driving. The personal reminder is expected to have a greater impact on driving behaviour than standard road safety messages.

COOKIE TIME INTERNATIONAL – POSTCARD COOKIES – OTAGO

Creating inroads into new global markets through clever marketing is allowing Cookie Time International to build brand recognition overseas. Overcoming barriers to export, such as shelf life limitations, while building the brand's footprint in new territories, has involved a cooperative relationship with NZ Post and the development of the Cookie Time personalised Postcard Cookie.

EAT MY LUNCH – AUCKLAND

Child poverty is unfortunately very much an issue in New Zealand, and Eat My Lunch is a social enterprise that has launched as a response to knowing that too many kids were going to school without a lunch every day. Customers go online to buy a nutritious lunch for themselves and a healthy lunch for a needy kid at the same time, on the principle of Buy One, Give One. Harnessing people power via social media has successfully launched this enterprise with no advertising budget.

KARMA COLA – AUCKLAND

Karma Cola built a Fairtrade relationship with cola nut farmers in Sierra Leone, and blends Karma Cola from naturally sourced Fairtrade ingredients. Glass bottles, delicious taste, transparency about ingredients, and the avoidance of chemical preservatives have made this a successful product in the cola market. The Karma Cola Foundation's integrity and socially responsible business model ensures that proceeds return to Sierra Leone to build independence and sustainability for cola farmers.

LOOK AFTER ME – ONLINE ACCOMMODATION MARKET PLACE – BAY OF PLENTY

Look After Me is an online marketplace for home-based accommodation that connects home owners and guests for short stays. Properties are screened for standards and prices and guests are matched with their hosts ensuring similar interests and a meaningful experience for all. Kiwi hospitality at its best, marketed strategically to Asia through travel documentaries and providing 'pop-up' accommodation during events such as Iron Man competitions and Art Deco weekends.

NETWORK FOR LEARNING – POND – AUCKLAND

Pond is an online central learning hub where teachers can discover and share learning resources, as well as connect and collaborate with their peers, allowing them to share expertise and best practice beyond their school walls. Pond makes New Zealand curriculum topics and NCEA standard learning resources more accessible.

ROHOLM – INVERSE – BAY OF PLENTY

Inverse is a new hair conditioning system. Instead of coating or modifying the hair with chemicals, the Inverse Ice Core Conditioning System uses sub-zero temperature to naturally condition and style the hair. Heat and chemicals damage the hair shaft but the easy-to-use, cordless Inverse traps moisture in the keratin for longer.

SEMBLE – AUCKLAND

Semble is a unique intra and cross industry collaboration between banks and mobile phone providers that allows consumers to use a phone app like a bank card. They can pay, use public transport, and soon will be connected to loyalty cards, vouchers, coupons and more all through a single customisable app on a Smartphone. Semble successfully brought multiple providers together to streamline resources and costs and to expand accessibility to businesses.

VMOB – INTELLIGENT PERSONALISATION PLATFORM – AUCKLAND

Online shopping has impacted on retail store sales, and VMob has developed a mobile marketing app that uses data

analytics to personalise the user experience and target offers to shoppers. Mobile app personalisation is fast and drives foot traffic, improves sales, increases transaction value, and encourages return visits to retail outlets.

INNOVATION IN MEDIA, MUSIC AND ENTERTAINMENT

8i – WELLINGTON

8i media technology and software allows anyone to convert standard digital video into 3D quickly and inexpensively. Augmented and Virtual Reality are the future of gaming, films and marketing, but such systems often use a single perspective, while 8i allows greater interaction with highly realistic 3D digital characters on a wide range of devices.

CLIP 'N' CLIMB – CANTERBURY

The sport of indoor climbing was limited by the need for a climbing partner to control one's descent through ropes and 'belaying' equipment. The invention of an automatic safety device for supporting the climber widened the market and enjoyment of the sport. The Clip 'n' Climb was safe and easy to use, making it a world leading game changer in the adventure sport market.

GAP FILLER TRUST – GAP FILLER – CANTERBURY

Gap Filler is a creative urban regeneration initiative that facilitates a wide range of temporary projects, events, installations and amenities in the underutilised spaces of a city. This social initiative allows people to connect with one another through volunteering, appreciation and participation. Empty spaces have hosted games and activities while blank walls have become canvases, all helping to revitalise Christchurch and instilling a sense of community.

HOLMES SOLUTIONS – REVOLUTIONISING ADVENTURE RECREATION – CANTERBURY

The adventure recreation market depends on its safety record in high-risk activities. One barrier to growth was the need for a safety partner with the skill to 'belay' or brake one's fall with a rope. The invention of a patented, self-regulated, non-contact, no-wear, magnetic braking technology, has allowed Holmes Solutions to capture a global market, by revolutionising safety for users of all ages, sizes and weights.

KIWA DIGITAL – VOICEQ 2.0 – AUCKLAND

One of the expenses of film post-production is the replacing of dialogue due to recording quality problems or for dubbing into other languages. This is called ADR and usually requires specialist equipment, personnel and expense. VoiceQ 2.0 scrolls script text onscreen to aid actor timing when matching lip movements to dialogue. The market is expanding as gaming and user content creators demand better vocal dubbing solutions.

SHUTTLEROCK – CANTERBURY

The proliferation of platforms for promoting your product or service and providing updated content can be daunting and time-consuming. Shuttlerock is a platform that allows you to update your business information in one place, and Shuttlerock does the rest, posting across platforms like Facebook and giving your business an online presence. Shuttlerock also gathers customer comments and images from across the channels and uses it to generate content for your online web presence.

STICKMEN MEDIA – VR WHEELCHAIR TRAINER – CANTERBURY

Learning to steer an electric wheelchair after a spinal injury, or with a disability, can be difficult. The VR Wheelchair Trainer is a motorised wheelchair that can be driven through a 3D simulation of a house in the safety of a rehabilitation facility, using an Oculus Rift Virtual Reality environment. The simulation allows users to learn how to successfully negotiate obstacles before they transition to real world situations.

INNOVATION IN SUSTAINABILITY AND CLEANTECH

BIOBREW - WAIKATO

BioBrew is a probiotic supplement that improves the gut health of farm animals, improving general health and feed metabolising, thereby reducing the need for antibiotics and growth hormones. Freeze dried storage of probiotics reduced their benefits, but BioBrew have created a live, affordable, natural, effective, multi-strain probiotic product for farmers.

ECOSTORE – CARBON CAPTURE PAK™ - AUCKLAND

The reliance on fossil fuel-dependent petrochemical plastics has ended at ecostore as they have converted their entire range of bottles to plastic made from renewable, and sustainably grown, sugarcane. These recyclable bottles are called Carbon Capture™Paks because they capture carbon dioxide from the atmosphere instead of releasing it through petrochemical processing, thereby helping reduce greenhouse gases.

FIBRE-GEN – HITMAN PH330 – CANTERBURY

The timber industry is becoming increasingly automated and loses money on milling logs that turn out to be of insufficient quality and strength for construction purposes. The Hitman PH330 is an acoustic tool that sonically tests the tensile strength all the way up the tree before harvest, allowing the tree to be segregated into construction strength timber, and timber for other uses. This tool reduces waste and saves money in the timber industry.

KARMA COLA – AUCKLAND

Karma Cola built a Fairtrade relationship with cola nut farmers in Sierra Leone, and blends Karma Cola from naturally sourced Fairtrade ingredients. Glass bottles, delicious taste, transparency about ingredients, and the avoidance of chemical preservatives have made this a successful product in the cola market. The Karma Cola Foundation's integrity and socially responsible business model ensures that proceeds return to Sierra Leone to build independence and sustainability for cola farmers.

SORBET – CANTERBURY

Sorbet produces all of its beauty product range in solid form, reducing the need for water, preservatives or plastic containers. Wrapped in compostable paper materials, Sorbet's packaging results in zero consumer waste. Salon quality, natural, cruelty-free, ethically-sourced products are desirable in current market trends, and the charitable business model is sustainable as it moves towards waste-free manufacturing.

SUNERGISE – AUCKLAND

Sunergise is passionate about encouraging the switch to solar power for cleaner, more affordable and sustainable energy. Sunergise aims to remove barriers to solar uptake and to initially target commercial users in New Zealand and the Pacific region. Sunergise have an app that quickly compares solar power savings compared with traditional energy costs, as part of their bid to encourage New Zealand to become the first 100% renewable energy nation.

TERAX 2013 – WASTE CONVERSION TECHNOLOGY – BAY OF PLENTY

Urban bio-waste is difficult and expensive to dispose of due to environmental and contamination issues. Terax's waste conversion technology treats bio-waste as a recyclable resource. The cost-saving process reduces the wastewater, eliminates organic solids, sterilises them, and recovers useful components such as nitrogen and carbon for recycling.

UBCO – UBCO 2X2 – BAY OF PLENTY

The UBCO 2x2 is an all-wheel drive electric motorbike with rural and urban applications. Lightweight, quiet, and with excellent handling and performance in all terrains, the UBCO 2x2 has a huge load capacity for carrying equipment, and its lithium batteries can charge tools and electronic devices on site when working remotely. All with a running cost of 60 cents per 100 kilometres.

VICTORIA UNIVERSITY OF WELLINGTON – RENEWING MATERIALS: 3D PRINTING AND DISTRIBUTED RECYCLING DISRUPTING SAMOA'S PLASTIC WASTE STREAM – WELLINGTON

Samoa has a serious issue with plastic waste, and this research explored methods of extrusion of the waste to create 3D

printer filaments and the use of digital printing to recycle the plastic. Methods for extraction and repurposing the waste into traditional crafts for tourism and local use were explored and were found to be culturally acceptable and sustainable.

WATEROUTLOOK – AUCKLAND

WaterOutlook is a cost-effective cloud-based central platform that collates and analyses data from all types of water facility, including water usage and wastewater calculations. Real-time accurate reporting on compliance and usage allows water management decisions to be informed and immediate.

EMERGING NEW ZEALAND INNOVATOR

8i – WELLINGTON

8i media technology and software allows anyone to convert standard digital video into 3D quickly and inexpensively. Augmented and Virtual Reality are the future of gaming, films and marketing, but such systems often use a single perspective, while 8i allows greater interaction with highly realistic 3D digital characters on a wide range of devices.

EYEDENTIFY – EMPOWERING PARTNERSHIPS TO PREVENT CRIME – AUCKLAND

Theft costs local businesses \$2 million per day, but the high volume thefts are often of low value items, so the high cost of recovery or reporting causes many thefts to go unreported. Eyedentify helps businesses reduce crime by connecting them quickly with Police and allowing an information exchange through their crime management and prevention platform. By linking information, detecting patterns, gathering CCTV, licence plate and facial recognition software, into the package, we create actionable intelligence for the Police resulting in crime prevention and arrest results.

FARMIQ SYSTEM – WELLINGTON

The FarmIQ System is cloud-based farm management software that helps farmers maintain records on sustainable land and water management, animal health and welfare, and food safety around chemical withholding periods. Developed in conjunction with farmers and the beef industry, the FarmIQ System helps communicate meat quality standards between the producers and the meat retailers and gives greater efficiency to the farm recording processes.

HOLMES SOLUTIONS – REVOLUTIONISING ADVENTURE RECREATION – CANTERBURY

The adventure recreation market depends on its safety record in high-risk activities. One barrier to growth was the need for a safety partner with the skill to 'belay' or brake one's fall with a rope. The invention of a patented, self-regulated, non-contact, no-wear, magnetic braking technology, has allowed Holmes Solutions to capture a global market, by revolutionising safety for users of all ages, sizes and weights.

KAMI – AUCKLAND

Kami (formerly Notable PDF) is an all-in-one online office suite developed to improve document workflow and to allow editing, annotating and collaborating on a wide range of documents such as PDFs and Microsoft Office. With the rapid uptake of Chromebooks as schools around the world move to paperless environments, Kami allows users to interact with documents created in a variety of formats.

KODE BIOTECH – KODE TECHNOLOGY ANTI-CANCER TREATMENT – AUCKLAND

Cancer is a global problem, and Kode Biotech has been focused on the development of cell surface membrane modification technology in the fight against tumours. Synthetic animal antigens are used to modify the cancer cell surface membrane and encourage the body's natural immune response to attack the cancer tumour cells. Kode Biotech's lipid technology will be used in Agalimmune's clinical human trials of their cancer immunotherapy molecules next year.

WEIRDLY – AUCKLAND

The future of business is in bringing like-minded individuals together who are engaged and passionate about what they are doing, as this makes them more productive and loyal to the company. Weirdly has developed a product that helps recruit teams based on how likely they are to love your business, by filtering them based on core brand values, cultural fit and fulfilment. It is cheaper, and simpler, than traditional recruitment agencies, and organisational culture gives companies a competitive advantage when attracting top talent.

YOURDRIVE – AUCKLAND

Your car is an expensive asset that spends a lot of time not being used. YourDrive is an online platform that lists vehicles for person-to-person car sharing. People rent on an hourly, daily or, weekly basis. The safe marketplace creates an income stream for owners and flexible, varied, and cheap vehicle rentals for users.

INNOVATION EXCELLENCE IN RESEARCH

FIBRE-GEN – HITMAN PH330 – CANTERBURY

The timber industry is becoming increasingly automated and loses money on milling logs that turn out to be of insufficient quality and strength for construction purposes. The Hitman PH330 is an acoustic tool that sonically tests the tensile strength all the way up the tree before harvest, allowing the tree to be segregated into construction strength timber, and timber for other uses. This tool reduces waste and saves money in the timber industry.

FLETCHER WINDOW AND DOOR SYSTEMS - SMARTFIT® – AUCKLAND

The installation of windows during building construction is a fiddly business with multiple layers of weatherproofing to be added. Smartfit® has created windows with all of the flashings, seals, sill supports and weatherproofing already added in the factory, creating windows that are easier to fit, faster to install, and with superior weather tightness. Smartfit® is fully patented, CodeMark certified and BRANZ appraised.

FONTERRA RESEARCH AND DEVELOPMENT CENTRE – MILK FINGERPRINTING – MANAWATU-WANGANUI

The quality of milk can vary from farm to farm and can vary due to weather and season. This can cause processing problems and supply chain delays. Fonterra's world first Milk Fingerprinting is new analytical technology that can rapidly measure milk samples and gather a unique fingerprint that can be used to cost-effectively guide tanker scheduling, milk processing decisions and enable Fonterra to extract the maximum value from dairy farmers' milk products.

GENEVIEVE'S – LONG SHELF-LIFE PATES – AUCKLAND

Dedicated to additive-free foods, Genevieve's have spent years perfecting recipes and heat preserving methods that create tasty, long shelf-life pates with no preservatives. Previously, products only lasted three weeks, or had to be canned. The recipes, cooking, and preserving methods used by Genevieve's have created a safer, more nutritional food product with a longer shelf-life for retailers.

OGO TECHNOLOGY – OGO – MANAWATU-WANGANUI

Ogo is an electric mobility device (wheelchair) with hands-free control due to its unique intuitive 'active seat' control. Current electric wheelchairs have limitations on where they can go, and are difficult to manoeuvre. The Ogo can travel at speed and off-road, and the 'active seat' innovation for steering and controlling the device also strengthens core muscles. Lightweight and responsive, the Ogo will give greater freedom to the mobility-impaired.

SCOTT TECHNOLOGY – LAMB FOREQUARTER CUT AUTOMATION SYSTEM – OTAGO

Meat processing is becoming increasingly automated to increase labour safety and to reduce bacterial contamination in meat products. Scott Technology have developed a system that uses high speed laser scanning to create a 3D model of individual carcasses, allowing the industrial robot to accurately cut each forequarter quickly and safely.

TIRO LIFESCIENCES – ZERO RADIATION BREAST SCREENING – CANTERBURY

Zero radiation, zero compression, zero pain! Breast Cancer is the second leading cause of cancer death in women, and traditional mammography fails to detect over 50% of cancers in older at-risk women. Tiro Lifesciences have developed a low-cost method for breast cancer screening that vibrates the breast tissue and uses software to identify changes in the tissue that indicate cancer. Made with readily available materials, the Zero Radiation Breast Screening technology can be used anywhere in the world.

EXCELLENCE IN SOCIAL INNOVATION

COLENZO BBDO/VOLKSWAGEN – REDUCE SPEED DIAL – AUCKLAND

Safety and innovation are at the forefront of Volkswagen's ethos in engineering safer cars. The Volkswagen Reduce Speed Dial replaces traditional Speed Dials with a personalised display that reminds drivers of why they should avoid risky speeds when driving. The personal reminder is expected to have a greater impact on driving behaviour than standard road safety messages.

EAT MY LUNCH – AUCKLAND

Child poverty is unfortunately very much an issue in New Zealand, and Eat My Lunch is a social enterprise that has launched as a response to knowing that too many kids were going to school without a lunch every day. Customers go online to buy a nutritious lunch for themselves and a healthy lunch for a needy kid at the same time, on the principle of Buy One, Give One. Harnessing people power via social media has successfully launched this enterprise with no advertising budget.

GAP FILLER TRUST – GAP FILLER – CANTERBURY

Gap Filler is a creative urban regeneration initiative that facilitates a wide range of temporary projects, events, installations and amenities in the underutilised spaces of a city. This social initiative allows people to connect with one another through volunteering, appreciation and participation. Empty spaces have hosted games and activities while blank walls have become canvases, all helping to revitalise Christchurch and instilling a sense of community.

INSPIRING STORIES – UNLEASHING THE POTENTIAL OF YOUNG NEW ZEALANDERS – WELLINGTON

Inspiring Stories supports and empowers enterprising young New Zealanders to achieve their entrepreneurial goals. A range of initiatives, including proposed seed funding, is helping us grow the next generation of young entrepreneurs. The innovation lies in the ecosystem of programmes and partnerships we have developed with industry practitioners.

NGA RANGATAHI TOA – AUCKLAND

Nga Rangatahi Toa is a creative arts' initiative that works with youth excluded from mainstream education and teams them with artists, musicians and creators in intensive, one-to-one mentoring workshops and group programmes. The mentoring programme is a means to achieve personal, cultural and social development, while supporting youth transition back into study or employment. The success rate is more than double that of traditional alternative education programmes.

OPHTHALMICDOCS – ODOCS EYE CARE – EAST COAST

Emergency eye care diagnosis, referral and treatment is slow, unresponsive and expensive, involving specialised equipment that is beyond the financial reach of most GPs and community health clinics. OphthalmicDocs (oDocs) improves these outcomes by creating a portable eye care kit that uses a 3D printer and a Smartphone to create ocular imaging adaptors that take pictures of the eye and retina. The app sends medical information and the eye images to the nearest available ophthalmologist, anywhere in the world, for fast diagnosis and treatment recommendations.

RHONDIUM – OVC – BAY OF PLENTY

When teeth fracture, they either require a large filling as a short-term solution, or a costly crown that is traditionally custom-made in a two dental visit process. The Rhondium One Visit Crown supplies dentists with a ready-made range of crowns which can be fitted in one visit, thereby reducing cost and inconvenience. The One Visit Crowns remove the need for impressions, technicians and multiple anaesthetic injections, making them simple and cost effective for both patient and dental practitioner.

UNIVERSITY OF AUCKLAND – SPARX – AUCKLAND

Depression is a growing problem, and many young people are profoundly affected. SPARX helps young people struggling with stress and depression through 'gamified' online therapy. Development was based on Cognitive Behavioural Therapy and uses playful, exploratory strategies in order to engage young people. Recognised for its quality, scientific rigour, and innovation internationally, SPARX has been made freely available to all New Zealanders.

EXPORT INNOVATOR OF THE YEAR

BBC TECHNOLOGIES – CURO – WAIKATO

Berry packing just got faster with the CURO platform which provides a high-speed, packing platform for a wide range of soft berry fruits. Able to pack all types of berries gently, and in a wide variety of retail containers and weights, the CURO will speed up the process by packing 2000 kilograms per hour. Modular and compact, the CURO weighs product accurately for greater consistency.

HOLMES SOLUTIONS – REVOLUTIONISING ADVENTURE RECREATION – CANTERBURY

The adventure recreation market depends on its safety record in high-risk activities. One barrier to growth was the need for a safety partner with the skill to 'belay' or brake your fall with a rope. The invention of a patented, self-regulated, non-contact, no-wear, magnetic braking technology, has allowed Holmes Solutions to capture a global market, by revolutionising safety for users of all ages, sizes and weights.

KARMA COLA – AUCKLAND

Karma Cola built a Fairtrade relationship with cola farmers in Sierra Leone, and blends Karma Cola from naturally sourced Fairtrade ingredients. Glass bottles, delicious taste, transparency about ingredients, and the avoidance of chemical preservatives have made this a successful product in the cola market. The Karma Cola Foundation's integrity and socially responsible business model ensures that proceeds return to Sierra Leone to build independence and sustainability for cola farmers.

KODE BIOTECH – KODE TECHNOLOGY – AUCKLAND

Kode™ Technology has developed nano-technology paints that can modify any cell or non-biological surface with a new feature. Kode™ Technology is so versatile that it can be used to add new biological and non-biological functions to living surfaces, or to add biological functions onto surfaces like metals and plastics. No other technology is as versatile, and Kode™ Technology is a new paradigm in surface modification that is reproducible and controllable. Kode™ Technology can be used in products ranging from diagnostics through to therapeutics (anti-cancer treatments, drug delivery, wound care, etc), cosmetics and even industrial application such as anti-counterfeiting.

METHVEN – AURAJET™ SHOWER SPRAY TECHNOLOGY – AUCKLAND

Domestically, a quarter of water consumption is used in showering, and Methven have developed the Aurajet™ Aio shower range to give an invigorating shower, with less water consumption. The halo-shaped shower uses spray technology that causes jets of water to collide with precision, increasing the spray force and giving the user a great shower with no loss of rinsing pressure.

OPHTHALMICDOCS – ODOCS EYE CARE – EAST COAST

Emergency eye care diagnosis, referral and treatment is slow, unresponsive and expensive, involving specialised equipment that is beyond the financial reach of most GPs and community health clinics. OphthalmicDocs (oDocs) improves these outcomes by creating a portable eye care kit that uses a 3D printer and a Smartphone to create ocular imaging adaptors that take pictures of the eye and retina. The app sends medical information and the eye images to the nearest available ophthalmologist, anywhere in the world, for fast diagnosis and treatment recommendations.

PROJECTMANAGER.COM – AUCKLAND

ProjectManager.com has revolutionised the online project management world by giving users a 'real time' view of their project status. Traditional project management tools involve spreadsheets and manual calculations that provide outdated information. ProjectManager.com provides global businesses with large scale instant data reporting tools that free up managers and improve productivity.

SNAP INFORMATION TECHNOLOGIES – GLOBAL SUSTAINABLE FISHERIES – NELSON

Regulating the fishing industry has always been difficult. Current systems for monitoring catches and dumping, while at sea, are expensive, difficult to install, and use a lot of manpower to interpret footage from multiple camera feeds. SnapIT have developed a low-cost, highly efficient, automated monitoring system that uses 360-degree cameras, and wireless feeds from ships at sea.

TIMELY – OTAGO

Timely provides cloud-based scheduling software for service industries such as salons, clinics, trainers and other booking-based businesses. Timely was developed to address the needs of a growing service sector rapidly moving towards cost-effective cloud-based systems, and remote working in lifestyle industries.

VMOB – INTELLIGENT PERSONALISATION PLATFORM – AUCKLAND

Online shopping has impacted on retail store sales, and VMob has developed a mobile marketing app that uses data analytics to personalise the user experience and target offers to shoppers. Mobile app personalisation is fast and drives foot traffic, improves sales, increases transaction value, and encourages return visits to retail outlets.

MOST INSPIRING INDIVIDUAL

GLENN MARTIN – FOUNDER MARTIN JETPACK – CANTERBURY

Glenn Martin is the founder and former Director of Martin Jetpack. Science fiction gave us the futuristic concept of a jetpack more than seventy years ago, but engineering reality has only just caught up to fiction. The Martin Jetpack with its unique patented design can lift weight, fly to 5000 feet, fly for long periods of time and can be used with minimal instruction. The Martin Jetpack is initially targeting the 'first responder' market for fire and ambulance use, but recreational use is likely to be 50% of mass production sales. The future has arrived, and the Martin Jetpack is a kiwi innovation and engineering success that many failed to achieve.

GUY RYAN – INSPIRING STORIES – WELLINGTON

Guy Ryan is the CEO and Founder of Inspiring Stories. Inspiring Stories supports and empowers enterprising young New Zealanders to achieve their entrepreneurial goals. A range of initiatives, including proposed seed funding, is helping us grow the next generation of young entrepreneurs. The innovation lies in the ecosystem of programmes and partnerships we have developed with industry practitioners.

SAM BRIDGEWATER – THE PURE FOOD CO – AUCKLAND

Disability, injury, and age-related difficulties can all result in problems with chewing, swallowing or digesting. Ensuring that patients get the right nutritional mix is essential when consumption is limited. Sam Bridgewater is the founder of The Pure Food Company who have formulated delicious and nourishing texture-modified cuisine for both individuals and care-providers such as rest homes and hospitals. Cost-effective and easy to provide, these texture-modified meals have improved the health outcomes and quality of life for many people.

SHENG CHIONG HONG – OPHTHALMICDOCS – EAST COAST

Emergency eye care diagnosis, referral and treatment is slow, unresponsive and expensive, involving specialised equipment that is beyond the financial reach of most GPs and community health clinics. OphthalmicDocs (oDocs) improves these outcomes by creating a portable eye care kit that uses a 3D printer and a Smartphone to create ocular imaging adaptors that take pictures of the eye and retina. The app sends medical information and the eye images to the nearest available ophthalmologist, anywhere in the world, for fast diagnosis and treatment recommendations. Sheng Chiong Hong is the founder of oDocs.

STEVE HENRY – KODE BIOTECH – AUCKLAND

Steven Henry is the CEO of Kode Biotech. Kode™ Technology has developed nano-technology paints that can modify any cell or non-biological surface with a new feature. Kode™ Technology is so versatile that it can be used to add new biological and non-biological functions to living surfaces, or to add biological functions onto surfaces like metals and plastics. No other technology is as versatile, and Kode™ Technology is a new paradigm in surface modification that is reproducible and controllable. Kode™ Technology can be used in products ranging from diagnostics through to therapeutics (anti-cancer treatments, drug delivery, wound care, etc), cosmetics and even industrial application such as anti-counterfeiting.

SUSTAINED INNOVATION EXCELLENCE

FONTERRA RESEARCH & DEVELOPMENT CENTRE – MANAWATU, WANGANUI

The Fonterra Research and Development Centre (FRDC) is one of the leading research facilities in the world dedicated to dairy. It has built a track record of solving complex problems that result in innovative new products being launched into global markets. It is home to 100 scientists, technologists and engineers who specialise in dairy science. Since 1927, FRDC has established new applications from milk. Today it is complemented by innovation centres in Amsterdam, Chicago, China and Melbourne. This global innovation network collaborates with customers to formulate dairy solutions that enhance existing products and bring innovative new products to consumers. One of this year's examples of innovation is a world first Milk Fingerprinting analytical technology. It can rapidly measure milk samples and gather a unique fingerprint that can be used to cost-effectively guide tanker scheduling, milk processing decisions and enable Fonterra to extract the maximum value from dairy farmers' milk products.

METHVEN – AUCKLAND / DUNEDIN

Methven is a publicly listed New Zealand company (since 2004). It began in 1886 when George Methven first started as a producer of brass and iron hardware in Dunedin, New Zealand. Today Methven's customer services are based in Dunedin and its headquarters and manufacturing are in Auckland, they now employ 350 staff globally with a market presence in China, UK, USA, EAE, Australia. Methven's focus has always been the care and delivery of water. In New Zealand a quarter of water consumption is used in personal showering; Methven's latest innovation is the Aurajet™ Aio shower range has been designed to give an invigorating shower, with much less water consumption. The halo-shaped shower has been launched with commercial success in many markets. Methven has a future pipeline of innovation ready to commercialise.

SCOTT TECHNOLOGY – OTAGO

SCOTT® Technology Limited is a publicly listed New Zealand based company. It is widely recognised as a world-class innovator of advanced automation systems for meat processing, mining and the superconductor industries. From its original beginnings in 1913 and through many transformations it is now operating in 35 countries with a global team of 380 people. In 2002, Scott Technology Ltd formed a joint venture Robotic Technologies Ltd (RTL) with Silver Fern Farms Ltd. Its vision was to fully automate lamb boning which is one of the most complex challenges of automated mass production. Now fully commercialised it uses high speed laser scanning to create a 3D model of individual carcasses, allowing the industrial robot to accurately cut each forequarter quickly and safely. This is one example of successful innovation from a company committed to growth and transformation through innovation.

YOUNG NEW ZEALAND INNOVATOR

ALISTAR SCARFE – ROBOTICS PLUS – BAY OF PLENTY

Automating processes in the horticultural industry has freed the industry from seasonal labour shortages. Alistar Scarfe is the Director of Robotics Plus who has created a number of technological devices that assisted in streamlining packing and pollination processes, including the QuadDuster™, the Robotic Apple Packer, the Autonomous Multipurpose Mobile Platform, and the Rockit™ Apple Tubes, a cost-effective engineered packaging. Robotics Plus minimised barriers to uptake; and explored horizontal and vertical business models for greater sustainability.

ANGUS MCLEOD – THE REVERSE REPORT – TARANAKI

Daily news reports focus on the negative events around the world, but that can have an impact on young people. Angus McLeod is Co-Founder of The Reverse Report, a child-friendly website that promotes positive news stories and encourages users to share their own good experiences. Children need to learn resilience and optimism, and The Reverse Report helps encourage positive thinking and outcomes for children, while providing educational content and a meaningful outlet for children to publish their own writing.

EYEDENTIFY LEADERSHIP TEAM – EYEDENTIFY – AUCKLAND

Theft costs local businesses \$2 million per day, but the high volume thefts are often of low value items, so the high cost of recovery or reporting causes many thefts to go unreported. Eyedentify helps businesses reduce crime by connecting them quickly with Police and allowing an information exchange through their crime management and prevention platform. By linking information, detecting patterns, gathering CCTV, licence plate and facial recognition software, into the package, we create actionable intelligence for the Police resulting in crime prevention and arrest results.

JON TAYLOR – JET SPARK – NELSON

Water supplies need to be protected and accidental run off can be disastrous in drought conditions. Jon Taylor is the Director of Jet Spark who has created Jet Stop, a no-fuss, easy-to-install patent-protected electronic safety timer which will cut power to the water pump if it exceeds expected working time. Jet Stop is an immediate solution to water loss that protects your water tank from running dry.

KATE SHAW – KAIKA ENERGY – OTAGO

Kate Shaw is the Finance Director of Kaika Energy, a biotechnology company run by high school students. Their school, Kaikorai Valley College, houses the Anaerobic Digester that Kaika Energy has built to process non-consumable food waste and transform it into bio fuel and fertiliser products with a high nitrogen, phosphorus and potassium value. The biogas collected from the Digester will also heat the school's greenhouse. Kaika Energy hope to demonstrate ways of disposing of non-consumable food waste in both New Zealand and the Pacific Island nations.

LIONEL TAITO-MATAMUA – VICTORIA UNIVERSITY OF WELLINGTON – WELLINGTON

Design Tutor Lionel Taito-Matamua is leading a Victoria University of Wellington research project which addresses the serious issue of plastic waste in the Pacific. Using Samoa as a case study this research explored methods of extrusion of the waste to create 3D printer filaments and the use of digital printing to recycle the plastic. Methods for extraction and repurposing the waste into traditional crafts for tourism and local use were explored and were found to be culturally acceptable and sustainable.