NZTech

ANNUAL REPORT

2018

CONNECT

PROMOTE

ADVANCE

NZTech is the voice of the organisations that are redefining the world we live in.

NZTech is a not-for-profit, non-governmental (NGO), membership funded organisation. We represent 20 tech communities and over 800 organisations across the New Zealand technology landscape who collectively employ almost 10 percent of the workforce.

Technology is critical for the future prosperity of New Zealand and is the fastest growing segment of our economy generating 8 percent of our GDP and 9 percent of our exports.

Our members are startups, local tech firms, multinationals, education providers, financial institutions, major corporations, network providers, hi-tech manufacturers and government agencies that work closely with the tech sector to generate economic growth.

Our goal is to stimulate an environment where technology provides important productivity and economic benefits for New Zealand.

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Our Purpose

Our purpose is to CONNECT, PROMOTE and ADVANCE tech ecosystems and to help the economy grow to create a prosperous Digital Nation.

CONNECT

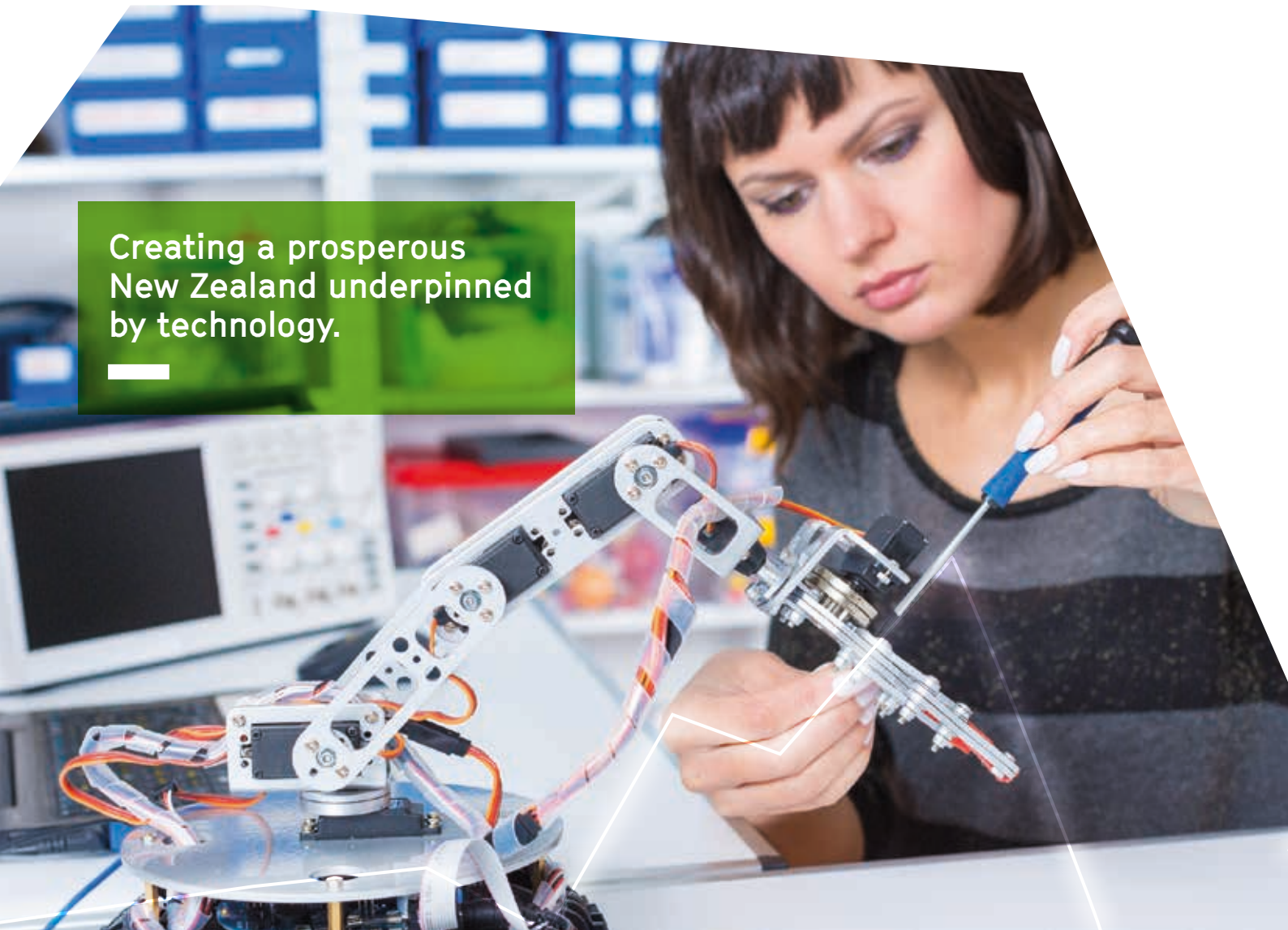
We connect tech ecosystems, organisations, people and policy makers with each other and to the world.

PROMOTE

We promote the importance of technology to the New Zealand public, and New Zealand technology to the world.

ADVANCE

We help advance the foundations for a successful digital nation including digital education, connectivity, cybersecurity, digital access and trade.



Creating a prosperous New Zealand underpinned by technology.

The Tech Sector

New Zealand has

21,411

Tech sector firms in 2016

Employing

120,350

People (6% of the workforce)

The tech sector contributed

$16.2B

to GDP

The top 200 exporters sold

$7.3B

internationally in 2017
(8.5% increase from 2016)

Each 4% growth in productivity in the tech sector delivers an additional

$2.7B

to GDP

The New Zealand Government continues to increase its active involvement with the tech ecosystem, providing further connections and support.

Chair's Report

Mitchell Pham

NZTech Chair

Over the past 12 months, I am delighted to report there has been more phenomenal growth of the New Zealand tech ecosystem and our engagement across the wider economy. NZTech continues to connect, promote and advance the entire tech ecosystem.

We continue to deliver even more events, delegations and summits. Our membership has expanded beyond traditional tech firms, highlighting the importance of tech throughout every aspect of the economy and society.

With InsurTechNZ emerging as part of FinTechNZ, and the establishment of TechLeaders, Tech Marketers and Agritech New Zealand, our alliance now represents 20 associations and over 800 organisations. Meanwhile, more members and industry associations are joining our growing Tech Alliance.

The New Zealand Government continues to increase its active involvement with the tech ecosystem, providing further connections and support across many interest areas, as we continue to aggregate and channel the voices and interests of our diverse community.

Earlier this year, NZTech hosted the Digital Nations 2030 summit, coinciding with visiting delegations from the world's leading digital nations for the D5 meeting. International leaders joined tech leaders from government and industry to discuss creating a truly digital nation by 2030.

Recently, our AI Forum launched their research report, Artificial Intelligence: Shaping a Future New Zealand. The report identifies key AI opportunities for New Zealand to actively shape our future.

To promote tech, our flagship national festival Techweek has grown from 287 events last year to 540 events this year. In a world first, Prime Minister Jacinda Ardern opened Techweek'18 as a hologram!

It remains crucial to promote tech widely, as very few girls choose a career in tech. Only three percent of 15 year old New Zealand girls consider a career in tech and women make up only 23 percent of those employed in IT. It is vital that we lead the way, and our annual mentoring programme ShadowTech from TechWomen continues to help inspire the next generation.

As a founding partner of the Digital Skills Forum, NZTech also played an active role in researching the skills shortage which resulted in the Digital Skills for a Digital Nation report and numerous recommendations.

Our growing number of international connections increases access to tech talent, investment capital, larger markets and the global tech innovation ecosystem. Examples include FinTechNZ's participation in the ASEAN FinTech Network, InsurTechNZ's establishment of the Global InsurTech Alliance, and Agritech New Zealand's regular engagement with Silicon Valley.

Our passionate board continues to evolve and deliver beyond expectations. We have one of the most engaged and high performing board teams, providing both governance and leadership to connect, promote and advance the tech ecosystem.

Looking ahead, I know NZTech will continue to stimulate an environment where technology provides important social and economic benefits for New Zealand, and enable this country to be more relevant to and affect more impact on the rest of the world.

Whether or not you are on the NZTech board, this is an exciting time to be more involved with our extended community.

CEO's Report

Graeme Muller

NZTech CEO

20 Tech Associations

818 Member Organisations

100,000+ Employees

NZTech

The 2018 Annual General Meeting marks the ninth year of operation for NZTech and our relevance continues to grow. The importance of technology is no longer a debate and we continue to see our membership expand beyond traditional technology firms.

The NZTech strategy of connecting, promoting and advancing all things tech continues to help us drive toward our purpose of creating a prosperous New Zealand underpinned by technology.

Connect

Connecting the tech ecosystem
During the past year, NZTech has continued to work with a growing number of other tech communities to build a strong, cohesive national tech ecosystem.

Connecting members
We are helping members connect through a weekly newsletter to almost 5000 people, plus monthly newsletters from each of the tech alliance communities. Additionally, throughout the country, over 120 member events were held last year.

Connecting with markets
To help our members connect with markets we have worked with our Alliance partners to produce four summits including AI Day, Digital Nations 2030, Security, and Education and Technology. This was complemented by Techweek'18 and offshore delegations.

Promote

Promoting to New Zealand
To help raise the public awareness of the importance of technology, NZTech placed 68 mainstream media stories over the past year. Engaging in conversations about the impact of automation on jobs, the future of food, driverless vehicles, the CTO and artificial intelligence. Techweek, our annual national festival of tech and innovation events expanded further to reach tens of thousands of New Zealanders via 540 events in just one week.

Promoting to the world
Following two years collaboration with New Zealand Trade and Enterprise (NZTE), Ministry of Business, Innovation and Enterprise (MBIE) and New Zealand Story, the New Zealand Tech Story was launched by Prime Minister Jacinda Ardern during Techweek'18. The UpStarters campaign is the first globally consistent messaging New Zealand has taken to the world about being a nation of innovators.

Advance

Advancing education, skills and talent
Through a partnership with IT Professionals and NZRise we launched the Digital Skills Forum with the Department of Internal Affairs (DIA), Ministry of Education, Tertiary Education Commission (TEC) and MBIE to address this national challenge. Last year we produced a detailed analysis of the current and future digital skills needs for New Zealand.

Advancing Government understanding of technology
Leading up to the national election last year, we helped bring together 20 tech associations to produce a united Digital Manifesto outlining what we believe is critical for the development of a prosperous New Zealand. The AI Forum also completed a 12 month study on the potential and risks of artificial intelligence. Following their recent study, the IoT Alliance formed seven working groups to work closely with Government on future policy.

Advancing a digital nation
We continue to engage in Government reference groups for activities that are critical foundations for a successful digital nation including tech in education, cybersecurity, connectivity, digital access and trade.

It has been another busy year, but what keeps us going is the support and feedback from across the tech ecosystem. There is a growing awareness of the importance of technology for New Zealand's future prosperity, not just as a sector, but it's impact throughout our economy.

NZTech will continue to raise the profile of the tech ecosystem as a great place to work, a place to create and export ideas, and as a critical foundation for the New Zealand economy.

Our Board

We are the voice of the New Zealand technology ecosystem and our vision is simple – more prosperity for New Zealand through better use of technology.

MITCHELL PHAM

CHAIR OF THE BOARD.
MEMBER ELECTED
(MID SIZED CORPORATES).

Mitchell is a Vietnamese-Kiwi entrepreneur. He is a Director of the Augen Software Group in New Zealand. He is the founding Chair of the New Zealand Financial Innovation & Technology Association (FinTechNZ) and was recognised this year as a KEA World Class New Zealander. Mitchell was elected to the NZTech Board in 2016 and has been Chair of the NZTech Board since that time.

RACHEL KELLY

DEPUTY CHAIR OF THE BOARD.
MEMBER ELECTED
(SMALL & MEDIUM BUSINESSES).

Rachel is recently returned to New Zealand after working in California, USA for a global biotechnology company. She is the founder of EthicalAI, a firm specialising in advising on the development of ethical artificial intelligence. Rachel was elected to the NZTech Board in 2016 and has been Deputy Chair since that time.

EVA SHERWOOD

MEMBER ELECTED
(LARGE CORPORATES).

Eva is a Manager for Deloitte Technology Consulting. Eva is also the Chair of TechWomen driving their vision of a more diverse and inclusive workforce. Eva was elected to the NZTech Board in 2016.

MIKE SMITH

MEMBER ELECTED
(MAJOR CORPORATES).

Mike is Managing Director of IBM New Zealand. Mike was elected to the NZTech Board in 2017.

SARAH HINDLE

MEMBER ELECTED
(SME BUSINESSES).

Sarah is General Manager for Tech Futures Lab. Sarah was elected to the NZTech Board in 2017.

ROBETT HOLLIS

BOARD APPOINTED INDEPENDENT.

Robett is the founder of Aranui Ventures and and entrepreneur. Robett was appointed to the NZTech Board in 2016.

TOM CHIGNELL

MEMBER ELECTED
(GOVERNMENT & EDUCATION).

Tom was previously General Manager, Industry Workforce Development at Unitec Institute of Technology. Tom was elected to the NZTech Board in 2016 and has been the Chair of NZTech's Governance Sub Board.

PAUL DEAVOLL

MEMBER ELECTED
(LARGE CORPORATES).

Paul is the Head of the South Island for Spark. Paul was elected to the NZTech board in 2015.

LEIGH FLOUNDERS

MEMBER ELECTED
(MID-SIZE CORPORATES).

Leigh is Senior Vice President, Head of Digital Strategy at Emirates NBD. Leigh was elected to the NZTech board in 2017.

KIM CONNOLLY-STONE

BOARD APPOINTED
(GOVERNMENT & EDUCATION).

Kim is the Policy Director, Digital Economy, Ministry of Business, Innovation and Employment (MBIE). Kim was elected to the NZTech Board in 2015.

SONYA WILLIAMS

BOARD INTERN.

Sonya is a co-founder and director of Sharesies. Sonya's appointment runs to July 2018.

MELISSA FIRTH

BOARD APPOINTED
(MID SIZED CORPORATES).

Melissa is the Managing Director of H3Co. She was appointed to the NZTech Board in 2016 and also sits on the steering group of creative industries alliance WeCreate.

BARRIE SHEARS

MEMBER ELECTED
(LARGE CORPORATE).

Barrie is the Managing Director of Microsoft New Zealand. Barrie was elected to the NZTech Board in 2016.

SIMON MARTIN

NON-DIRECTOR / BOARD APPOINTED
– LEGAL COUNSEL.

Simon is a partner at Hudson Gavin Martin. Simon was appointed to the role of Legal Counsel for the Board in 2009.

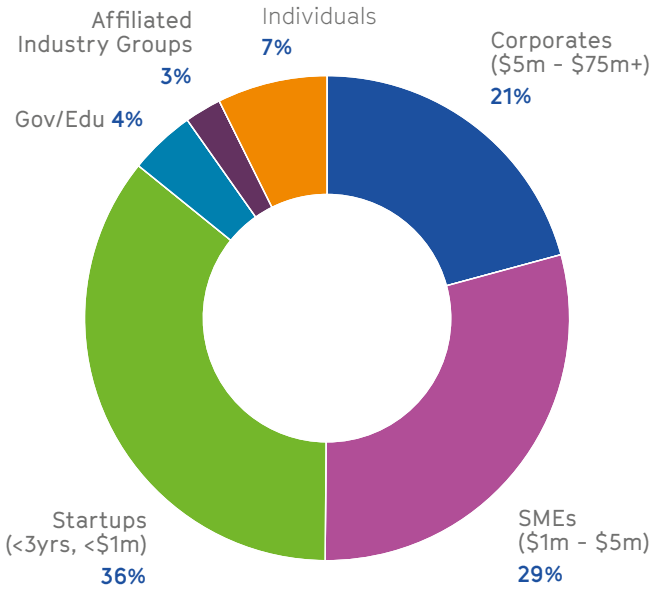
Our Members

Membership

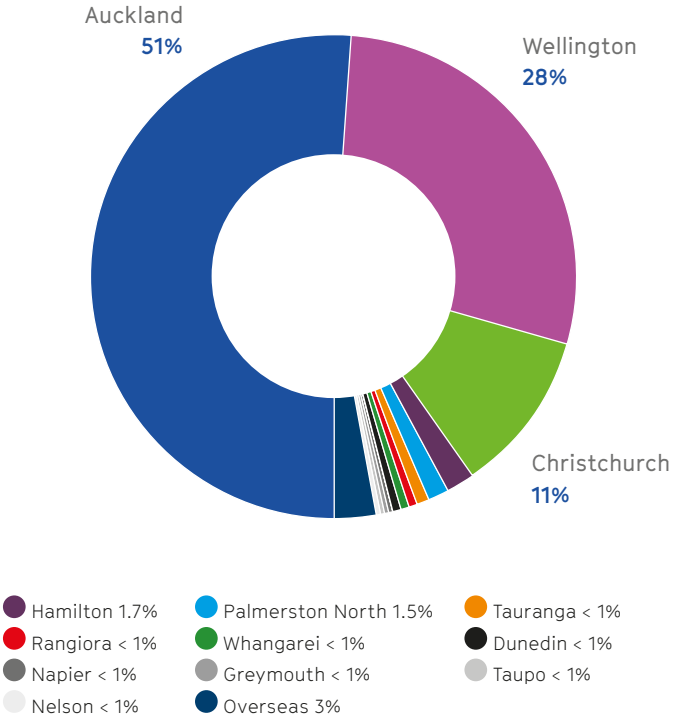
During the past year, membership has continued to grow as more organisations join to help improve New Zealand's prosperity underpinned by technology. NZTech membership has increased across every category with members spread throughout New Zealand. The diversity of members continues to improve with organisations large and small spread from Whangarei to Dunedin.

Additionally, as the New Zealand Tech Alliance has matured, the number of tech communities and organisations that NZTech provides a voice for has also increased. The Alliance now consists of 20 associations.

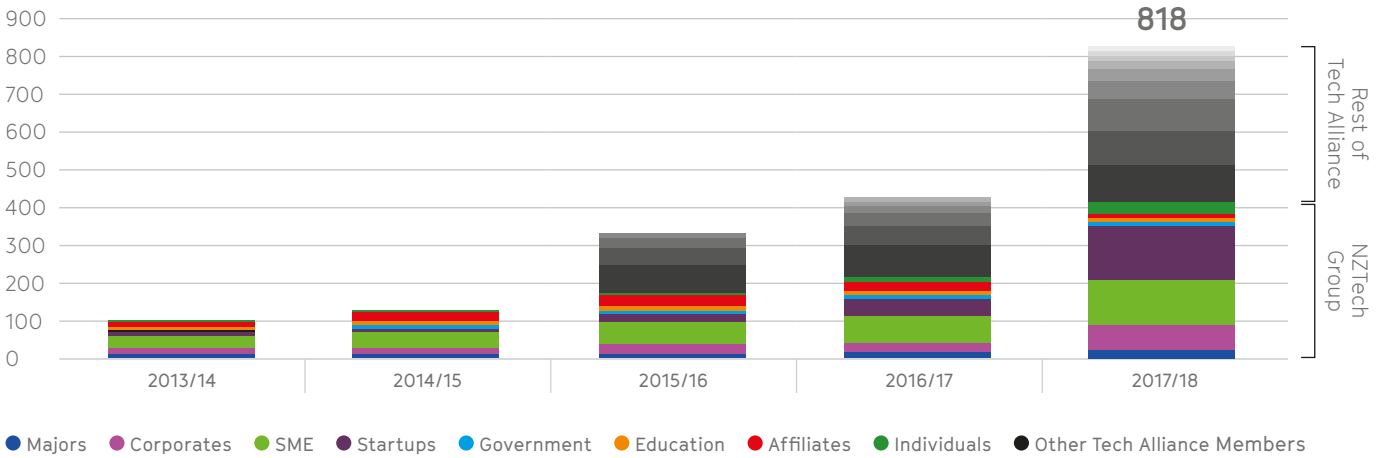
NZTech Members by Type



NZTech Members by City



NZTech Representation



NZTech Strategy

The NZTech strategy is to connect tech ecosystems, organisations and passionate people with each other to reduce market fragmentation and create a coordinated national voice for technology.

With this growing voice we promote the importance of technology to the New Zealand public, and successful New Zealand technology to the world. Our advocacy work focuses on ensuring the essential elements for creating a digital nation are in place, including high levels of connectivity, cybersecurity, digital education, talent development and a government that understands the value of technology.

1 Connect

Connecting tech ecosystems, organisations, people and policy makers.

Connect

Creating a voice for technology

Photo Credit: Kieren Scott

2 Promote

Promoting New Zealand technology to the world.

3 Advance

Helping to advance the foundations for a successful digital nation.

The Tech Alliance

OTHER GROUPS IN ALLIANCE

Canterbury Tech

NZGDA NEW ZEALAND GAME DEVELOPERS ASSOCIATION

NZHiT Enabling a Healthier New Zealand

nzsa

Representing technology associations across New Zealand. Working together to create a prosperous New Zealand, underpinned by technology.

The New Zealand Tech Alliance is a group of independent technology associations from across New Zealand that work together to ensure a strong voice for technology. Coordinated by NZTech, the Alliance currently represents 20 associations and over 800 organisations that collectively employ more than 100,000 New Zealanders who provide the voice of a tech ecosystem that is redefining the world we live in.

www.techalliance.nz

NZVRARA NEW ZEALAND VR/AR ASSOCIATION INC.

Precision Agriculture Association New Zealand

SIBA

Artificial Intelligence Forum of New Zealand

BEN REID

AI FORUM OF NEW ZEALAND
EXECUTIVE DIRECTOR

www.aiforum.org.nz

The Artificial Intelligence Forum of New Zealand (AI Forum) sets out to raise the level of awareness and capabilities of Artificial Intelligence (AI) in New Zealand.

Launched in 2017, the AI Forum is a purpose driven, membership funded association for those who have a shared mission for the opportunities AI can provide.

In March, the AI Forum co-presented the inaugural AI-Day in Auckland. This landmark event hosted 500 attendees with inspiring presentations and informative discussions from 23 speakers.

The AI Forum's major research report, *Artificial Intelligence: Shaping a Future New Zealand* was published in May, 2018. This included the creation of an ecosystem map, featuring 142 organisations working with AI in New Zealand. The research examined the New Zealand and international AI industry landscapes, investigating AI's potential impacts on New Zealand's economy and society. The report also identified key AI opportunities in the public and private sectors that New Zealand can invest in now to actively shape the effects on our collective future.

Following the reports release, the AI Forum has established six working groups to address the report's recommendations. These include;

Theme 1: Forging a Coordinated AI Strategy for New Zealand

Theme 2: Creating Awareness and Discussion of AI

Theme 3: Assisting AI Adoption

Theme 4: Increasing Trusted Data Accessibility

Theme 5: Growing the AI Talent Pool

Theme 6: Adapting to AI effects on Law, Ethics and Society.

Key Highlights from AI Forum Report

TOP 5 DRIVERS OF AI UPTAKE IN NEW ZEALAND

- Make sense of vast amounts of data
- Automate tedious or dangerous work
- Support decision making with speed and accuracy
- Reduce business costs by automation
- Optimise business processes

By 2035, **AI has the potential to increase New Zealand GDP** by up to

$54 billion

44%* **consider education as a key barrier** to AI adoption.

52%* **say that AI will be, or already is, a game changer** in their organisation.

Just **36%*** **say their company's board is discussing AI.**

Over the next **40** years **AI driven job displacement will account for only 10 percent of normal job creation and destruction.**

AI frees people up to focus on more complex, higher value tasks.

Canada, China, France, Singapore, South Korea, UAE and UK have all developed multi-million dollar **national AI investment strategies.**

New Zealand currently does not have a national AI strategy.

New Zealand ranked 9th among 35 OECD countries for Government AI Readiness (2017).

Adoption of AI by New Zealand Government is **disconnected and sparsely deployed.**

AI raises many **new ethical concerns relating** to bias, transparency and accountability.

AI will have **long term implications for core legal principles** like legal responsibility, agency and causation.

There is an **acute worldwide shortage of machine learning experts** with competition for talent. Machine learning is the **highest demand growth** tech skillset globally.

*of survey respondents.

Integrating agriculture and technology to strengthen our primary sector.

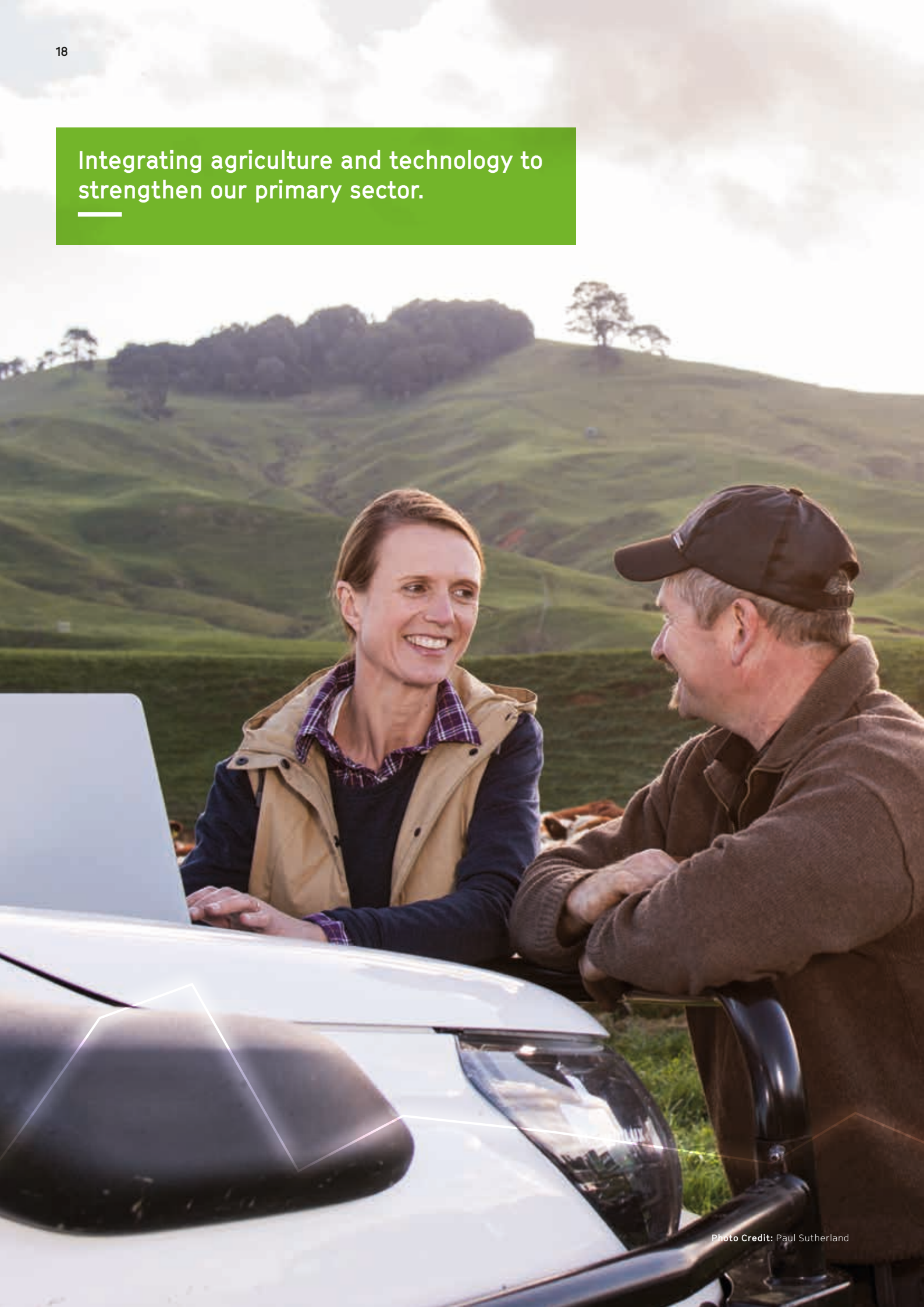


Photo Credit: Paul Sutherland

Agritech New Zealand

PETER WREN-HILTON

AGRITECH NEW ZEALAND
EXECUTIVE DIRECTOR

www.agritechnz.org.nz

Building a world class agritech ecosystem

Our world leading primary sector has firmly established New Zealand's reputation as a producer of food. However, exploding world population and climate change is increasing the urgency for more sustainable use of natural resources in farming. Agritech is providing alternatives to traditional farming methods and revolutionising the sector. New innovations can increase productivity gains to maximise profitability for the primary sector, for the benefit of all New Zealanders.

Agritech New Zealand is a purpose driven, membership funded organisation whose members share a passion for the opportunities that agritech can generate.

Agritech Agritech New Zealand connects innovators, investors, regulators, researchers and interested public. It promotes opportunities and challenges raised by agritech. Agritech New Zealand advances the ecosystem through advocacy, collaboration, innovation, talent and economic growth through international connections and missions.

Photo Credit: Kieren Scott

BioTech New Zealand

ZAHRA CHAMPION

BIOTECHNZ
EXECUTIVE DIRECTOR

www.biotechnz.org.nz

Previously known as NZBIO, BioTech New Zealand (BioTechNZ) joined the New Zealand Tech Alliance in July 2018.

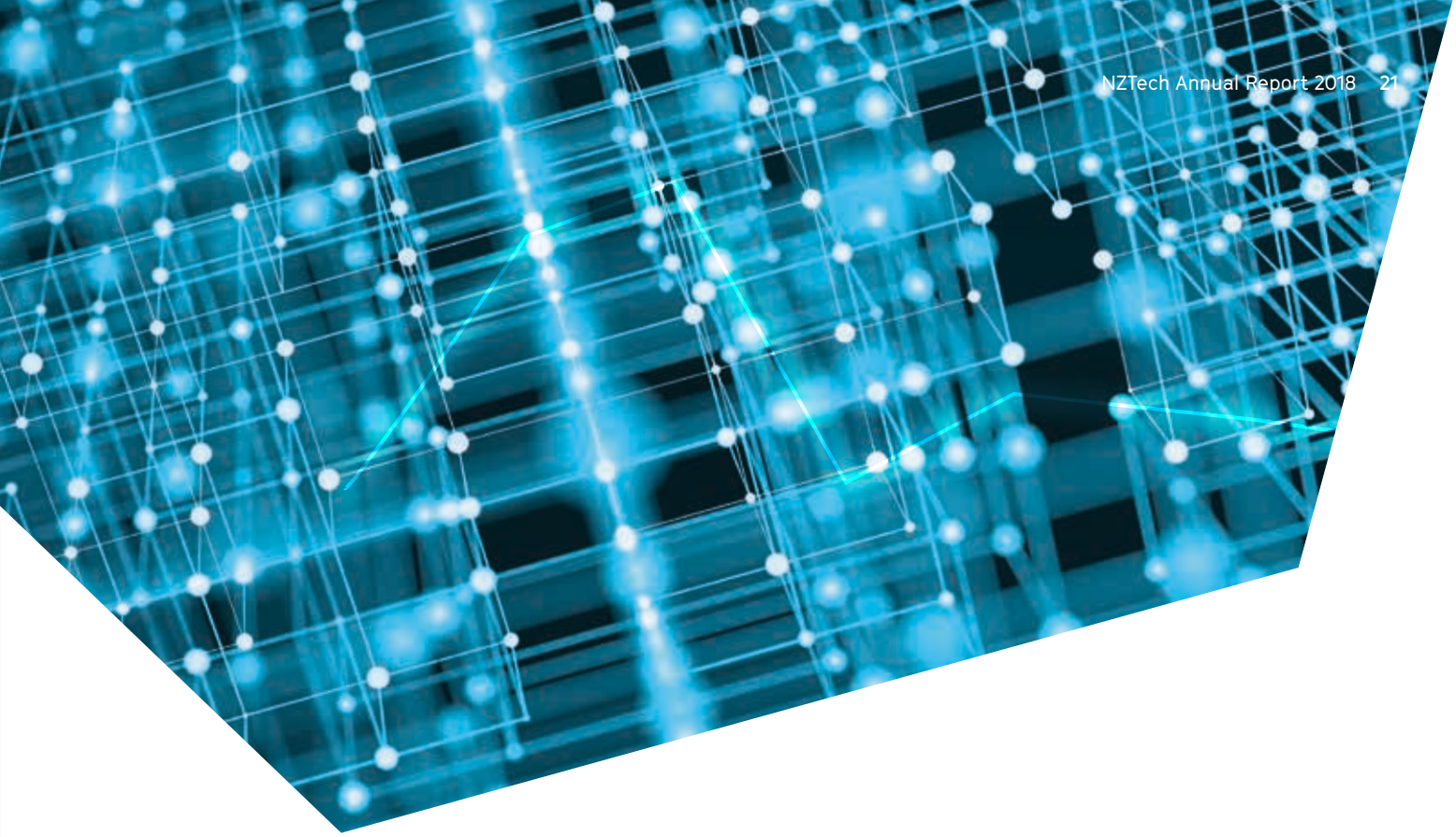
Its vision is to create a supportive and sustainable environment to support the growth of a prosperous New Zealand biotechnology and life sciences ecosystem.

BioTechNZ members share the passion that biotech can address many of the world's current and future problems in health, medicine, help agriculture and environment.

BioTechNZ connects innovators, investors, regulators, researchers, social entrepreneurs and interested public. BioTechNZ also helps raise awareness and increase understanding of Biotechnology.

BioTechNZ is focusing on;

- Global trends in relation to New Zealand
- Identification of key regulatory challenges
- Identification of key BioTech themes for New Zealand
- Roadmap creation for BioTech in New Zealand.



Blockchain Association of New Zealand

MARK PASCALL

BLOCKCHAIN ASSOCIATION CHAIR

BLOCKCHAIN ASSOCIATION NEW ZEALAND

www.blockchain.org.nz

Blockchain is the first successfully tested distributed ledger technology. It is changing our understanding of transparency, authentication, trust and contracts in the public and private sector.

Blockchain is a catalyst for the Age of Decentralisation, paving the way for business models that have not been possible before. It is providing us with new opportunities for human achievement.

The Blockchain Association of New Zealand (BANZ) represents this rapidly emerging business sector and is the industry networking organisation, facilitating connections and professional development.

BANZ introduces, educates and connects those who want to build a thriving digital future. BANZ promotes cryptocurrency and Blockchain technologies, the development, adoption and use of globally accepted, industry leading knowledge and practices for distributed ledger technology.

EdTechNZ

TRUMAN PHAM

EDTECHNZ
CHAIR

EdTechNZ

www.edtech.org.nz

Education provides the foundation for New Zealand's economic and social growth. The Education and Technology Association (EdTechNZ) is a community across different sectors including education technology firms, education and training organisations, educationalists and government agencies.

It is dedicated to the growth of understanding of the benefits of technology in education and the growth of EdTech exports from New Zealand.

EdTechNZ's purpose is to drive creative use of technology in education, inside and outside the classroom. EdTechNZ is the voice of education technology in New Zealand and provides an independent platform for those with a shared interest in education technology, across industry and government.

In addition to regular Connect events and meetups in Auckland, Wellington, Christchurch, EdTechNZ's flagship event is the annual New Zealand Education and Technology Summit. This year's theme was Creating Pathways for 21st Century Learning and examined the impact of technology across pedagogy, digital technology learning, digital resources and EdTech exports. The Summit connected teachers, principals, educators, policymakers, publisher and tech leaders who are taking New Zealand education to the next level. Discussions also included:

- A vision for lifelong learning
- Education in the digital age
- Pathways to deliver a modern workforce
- Using data to inform better student outcomes
- Addressing the digital divide.

Photo Credit: David Straight

FinTechNZ

JAMES BROWN

FINTECHNZ
GENERAL MANAGER

FinTechNZ

www.fintechnz.org.nz

Creating a prosperous New Zealand through financial innovation.

Disruptive technologies are revolutionising traditional financial services, creating opportunities for start up entrepreneurs and corporate innovators. The New Zealand Financial Innovation and Technology Association (FinTechNZ) helps connect, promote and advance the trends shaping the FinTech ecosystem.

Following its 2017 launch, FinTechNZ has hosted quarterly Connect Events in Auckland, Wellington and Christchurch. Last year, FinTechNZ hosted a delegation to the Singapore FinTech Festival and joined the ASEAN FinTech Network. This year, FinTechNZ co-founded the Global InsurTech Alliance and has numerous international partnerships to strengthen New Zealand's global FinTech connections. FinTechNZ also hosted a delegation to London FinTech Week 2018.

FinTechNZ's programme includes working groups bringing together industry, government and the fintech ecosystem around;

- Cryptocurrency
- InsurTech
- International relations
- Cyber and Digital ID
- FinTech Ecosystem Map
- RegTech
- Banking and Finance.

Redefining the way we borrow, lend, save, spend, store and transfer money.

Photo Credit: Chris WIlliams

New Zealand IoT Alliance

KRIV NAICKER

NEW ZEALAND IOT ALLIANCE
EXECUTIVE DIRECTOR

New Zealand IoT Alliance

www.iotalliance.org.nz

Accelerating a Connected New Zealand

The Internet of Things (IoT) is impacting the way consumers, businesses and governments interact with the world. Using embedded sensors to collect and exchange data, everything from vehicles, traffic lights, home appliances and medical devices can be connected.

The New Zealand IoT Alliance sees a thriving future for New Zealand by connecting data, devices and people to seize opportunities for economic growth. Its aim is to empower industry to grow our nation's competitive advantage through IoT. The Alliance provides an independent platform for bringing together leaders in IoT technologies, government, academics and local IoT innovators. It's underlying aim is to accelerate IoT innovation by promoting collaboration across industry and government.

Following the 2017 publication of The Internet of Things, Accelerating a Connected New Zealand, the Alliance has established seven working groups to address the report's recommendations. Working groups include;

- IoT Ecosystem Map
- IoT Knowledge Hub
- IoT Collaborative Pilots
- IoT Cybersecurity
- IoT Data and Privacy
- IoT Device Certification
- IoT Technical Spectrum

Forecasts predict 34 billion devices connected to the internet (up from 10 billion in 2015) and an expected global market size of $1.5 trillion by 2020.

TechLeaders

Influencing positive change

The current digital revolution is set to change, redefine and disrupt almost every sector of our economy. The TechLeaders Executive share a passion for the opportunities that technology can bring to New Zealand.

The TechLeaders Executive is a network of senior leaders whose aim is to drive positive economic and social change. Together, they work on influencing positive change through;

- Acceleration of digital skills in education.
- Shared learning about digital transformation of people, businesses and the economy.
- Government engagement to assist the development of critical tech knowledge to support policy for a Digital Nation.

Launched in 2017, TechLeaders has published two briefing papers, *Industry, Education and the Workplace of Tomorrow* and *Preparing for the Digital Disruption of Work*.

TechLeaders Digital Principles was published in June, 2018. Its purpose is to support New Zealand's transformation to a more digitally competitive nation. The Digital Principles are the first step toward providing a useful digital transformation guide and provide an intentional framework to successfully transition an organisation. The TechLeaders Executive continues to collaborate and the next phase is the publication of a set of guidebooks detailing the 'how to' of each principle.

Digital Principles

1. BE PURPOSEFUL
2. SEEK TO IMPROVE
3. ACTIVELY COLLABORATE
4. FOCUS ON VALUE
5. BE PEOPLE CENTRIC
6. COMMIT TO LIFELONG LEARNING

TECHLEADERS EXECUTIVE.

www.techleaders.nz

Our TechLeaders

DAVID KENNEDY
TechLeaders Chair

ALAN HESKETH

ALLAN LIGHTBOURNE

ANDREW CAMMELL

ANDREW GOODIN

ANGELA NASH

ANGUS ARMSTRONG

CRAIG COLUMBUS

CRAIG WARD

DAVID GODFREY

DAWIE OLIVER

DIANE EDWARDS

DIANNA TAYLOR

GERBEN OTTER

GLEN WILLOUGHBY

KEITH CHELEK

LIZ GOSLING

MARK DENVIR

MATTHEW COCKER

MATTHEW WRIGHT

ROGER JONES

SONYA CROSBY

STUART WAKEFIELD

TechWomen

EDWINA MISTRY

TECHWOMEN NEW ZEALAND
EXECUTIVE DIRECTOR

techwomen

www.techwomen.nz

Working together to improve diversity

TechWomen is creating positive change in New Zealand's tech landscape. TechWomen helps inspire girls into technology, supports the growth of women in tech roles and develops policy for improving diversity in the workplace. TechWomen hosts regular Connect Events in Auckland, Wellington and Christchurch. In 2018, Executive Director, Edwina Mistry was appointed to TechWomen and work has included;

Mentoring Circles

TechWomen has piloted a four month Mentoring Circle programme in Wellington. Mentoring helps create relationships to share knowledge and experience for the mentees development. Auckland and Christchurch Mentoring Circles began in July.

Return to IT

The Return to IT programme assists New Zealand women to return to the digital tech ecosystem after a career break.

www.returntoit.co.nz

ShadowTech

In 2018, ShadowTech won the Engaging Youth in ICT Award at the annual New Zealand CIO awards. The ShadowTech programme provides young women in years 9 -11 with an opportunity to experience what working in the tech sector could be like, encouraging them onto education pathways that lead into tech sector roles. Nearly 650 students took part this year, with 100 companies and 250 mentors.

www.shadowtechday.nz

100 TechWomen

TechWomen is profiling 100 successful TechWomen in New Zealand and publishing across multiple platforms to inspire young women into tech careers.

Only 3% of 15 year old New Zealand girls consider a career in IT.

Women make up only 23% of those employed in IT occupations.

Tech Marketers

JANE SMALLFIELD

TECH MARKETERS
CO-CHAIR

BOB PINCHIN

TECH MARKETERS
CO-CHAIR

Tech Marketers

www.techmarketers.co.nz

The Tech Marketers Group (TMG) connects marketers in the tech ecosystem, promotes marketing within companies and advances New Zealand tech marketers nationally and globally.

The Tech Marketers Group (TMG) connects marketers in the tech ecosystem, promotes marketing within companies and advances New Zealand tech marketers nationally and globally. Tech Marketers launched in April, 2018 and it's inaugural annual conference is scheduled for February, 2019.

Members include marketers employed by or contracted to New Zealand based technology companies, including multinationals with a local presence. The group shares information, resources and strategies to collectively improve marketing capability and success. They hold regular networking events and plan to lead other events to advance technology marketing.

The group would also like to see marketers consistently included at the senior management table with a wider understanding of how marketing integrates with product development, sales and overall operations.

"If New Zealand is to achieve the goals it has set for its technology industries, then it needs a strong, globally capable, tech marketing force to sell its goods into those global markets." Jane Smallfield, Co-chair

"Too often we see sales and product teams positioned as the heroes within New Zealand technology companies, but without effective marketing, most companies won't survive long-term." Bob Pinchin, Co-Chair

Other Alliance Members

Over the past year, NZTech has continued to work on connecting the tech sector by increasing the number of associations in our New Zealand Tech Alliance. Each of the groups in the Alliance has a specific niche focus, but together we create a strong united voice for technology in New Zealand.

Canterbury Tech

Christchurch is home to the second biggest tech sector in New Zealand with a vibrant startup scene, scaling businesses through to global multi nationals who base their creative development teams in Canterbury.

Canterbury Tech is passionate about helping the region's tech companies and people prosper. Canterbury Tech connects, grows and inspires its members through educational and inspirational events.

Strategic priorities include:

- Expand the quantity and quality of networking opportunities for members.
- Raise Canterbury Tech's voice nationally to support members in attracting funding and talent to Christchurch.
- Develop pathways for student engagement with the tech industry to increase and retain local talent pool.
- Delivery of successful Tech Summit that grows the profile of tech in Canterbury.

Highlights

- Canterbury Tech Summit.
- Co-hosting Emerging Tech in Health conference.
- Monthly members meetings hosting industry experts and networking opportunities.
- Partnering with Summer of Tech and ChristchurchNZ to grow student work opportunities.

www.canterburytech.nz
www.techsummit.nz

NZGDA NEW ZEALAND GAME DEVELOPERS ASSOCIATION

The New Zealand Game Developers Association (NZGDA) was established to champion, support and grow video game development in New Zealand.

Members include commercial game development studios and over 2,000 individual developers. Collectively, NZGDA members employ over 500 people in over 30 studios.

Key areas of focus include; meetups, professional development, entrepreneurial support, industry profiling, career pathways and advocacy.

The annual New Zealand Game Developers Conference returns this year, 1-3 August. The three day conference is for both professional and indie game developers in New Zealand's fastest growing creative sector.

Highlights

- The New Zealand Game Developers Conference 2017 hosted over 500 delegates.
- NZGDA has supported New Zealand game developers to attend international events in the USA, Australia and China.
- NZGDA is working with NZTech and Ministry of Business, Innovation and Employment on a comprehensive report into New Zealand's game development sector.

www.nzgda.com
www.nz-gdc.com

www.healthit.org.nz

New Zealand Health IT (NZHIT) members make a significant contribution to the delivery of health services and provide innovative solutions to influence the future direction of health delivery in New Zealand and overseas. They work collaboratively with Government agencies to support the ongoing development and uptake of technology in the health sector nationally and internationally.

NZHIT represents health software companies, healthcare providers, academia, clinicians, researchers and policy makers. Strategic priorities include leadership, relationships and growth, supported by collaboration, trust and outcomes as values. NZHIT hosts regular networking events nationwide.

www.nzsa.org.nz

New Zealand's software industry is delivering world leading applications to defence, entertainment, health care, primary industries, security, transport and more. The New Zealand Software Association (NZSA) is the software industry networking organisation, facilitating connections and professional development. The NZSA provides support, resources and information to assist local software companies to develop on their pathway to export success.

Highlights

- Hosted eleven events during the year, featuring amazing industry speakers.
- Over 500 members and guests attended our evenings in 2017.
- Launched the NZSA online member directory.

www.precisionagriculture.org.nz
www.7acpa-2017.org

The Precision Agriculture Association of New Zealand (PAANZ) is the industry body helping agriculture grow faster. Its primary focus is to advance Precision Agriculture (PA) in New Zealand.

PAANZ connects land users, researchers, companies, local government and organisations to increase the awareness and use of Precision Agriculture (PA) technologies. PAANZ hosts regular industry events, symposiums and field days.

Launched in 2013, the association recognises the growing interest among stakeholders to understand the scope of activities by organisations and individuals in the area of PA.

Highlights

- Hosted PA17 – The International Tri-Conference for Precision Agriculture in October 2017.
- Supported industry initiatives to extend the knowledge and adoption of PA technologies in the primary sector.
- Members hosted international visitors and experts engaging with New Zealand organisations with a view to extending collaboration on PA initiatives.

The Spatial Industries Business Association (SIBA) is the organisation representing the spatial industries from geographic information systems (GIS) and location technology to construction plans. Membership is increasing alongside the rise of spatial technology.

SIBA provides support, advice and information as it drives to advance the spatial industry. A key focus for SIBA is increasing awareness of spatial technology itself. This technology underpins the approach of using location to tie together information from disparate sources to find patterns or causes in big data.

Highlights

- SIBA's Talk Geospatial series held as part of Techweek '18, showcasing NZSEA entries.
- SIBA worked with LINZ, NZTech, NZIS and SIBA Australia on projects ensuring our members are enjoying wider industry participation.
- SIBA is a founding partner of the New Zealand Spatial Excellence Awards, in recognition of New Zealand's best individuals and organisations working with spatial technology. Following their local win, Wellington City Council won the 2016 Asia Pacific supreme award for its use of spatial technology for Smart City enablement.

www.siba.org.nz
www.nzspatialawards.org.nz

The New Zealand Virtual Reality/Augmented Reality Association (NZVRARA) was established in 2016 to champion, support and grow innovation in virtual, mixed and augmented reality across New Zealand.

NZVRARA focuses on promoting dialogue, investment and building capability in immersive technologies. NZVRARA creates opportunities to showcase and collaborate on cross reality experiences and solutions.

Highlights

- The industry report, Virtual Gets Real – The Explosion of Cross Reality in New Zealand was published in 2017.
- The Association executed its first International *Memorandum of Understanding* with Taiwan based counterpart, TAVAR.
- NZVRARA Student Chapter was launched.

www.nzvrara.nz

Transforming government

New Zealand has a reputation for innovation and is often considered the go-to location for global market testing. Our relatively small size, lack of hierarchy and openness means you can connect with the right people, fast. Currently, New Zealand is ranked in the top three digitally capable economies in the world.

Launched in 2018, GovTech World facilitates the digital transformation of the public sector by connecting it with private business. We bring together governments, innovators, investors, citizens and businesses to help solve societal problems using GovTech.

www.govtechworld.com

Digital Skills for a Digital Nation

As a founding partner of the Digital Skills Forum, NZTech has continued to played an active role in researching the skills shortage.

NEW ZEALAND DIGITAL SKILLS FORUM

www.digitalskillsforum.nz

During 2017, the Digital Skills Forum surveyed the tech sector to develop evidence of the skills needed across technology and digital roles. Research shows that demand for digital skills is already high, supply of digitally skilled workers is low and demand is forecast to grow.

The *Digital Skills for a Digital Nation* report recommendations included;

Building the talent pipeline

1. Make sure every child is exposed to digital technologies.
2. Help all Kiwis to understand the importance of digital skills.
3. Increase the numbers studying advanced digital skills.
4. Actively encourage a more diverse group of Kiwis into digital technology.
5. Undertake a programme of constant digital attraction.

Supporting the transition to work

1. Develop and promote pathways into digital tech roles.
2. Develop a platform to support internships.

Upskilling and reskilling

1. Develop programmes to support re-entry to work.
2. Create upskilling programmes for those likely to be affected by automation.
3. Educate the market on the importance of training and development.

Photo Credit: Chris Sisarich

Digital Skills Key Highlights

NEW ZEALAND'S DIGITAL SKILLS SHORTAGE

Demand for digital skills is already high

120,350
people employed in the tech sector in 2016.

90,000+
LinkedIn members in New Zealand with IT skills.

23,946
IT and digital workers in just 39 Government agencies.

14,000
new jobs created by the tech sector in 2016.

72,000
IT Services related jobs in all sectors has grown to exceed this.

$82,000
More jobs posted for ICT roles than any other role, median salary now.

Supply of digitally skilled workers is low

Only 14,220
computer science and information technology students studying in 2016.

3% annual increase in student numbers.

11% annual increase in software programmer jobs.

Only 5,090
computer science and information technology graduates in 2015.

Only 36%
of computer science and information technology students were FEMALE in 2016.

Only 5,500
technology visas granted over the past 12 months.

Only 8%
of computer science and information technology students were MĀORI in 2016.

Demand is forecast to grow

120 tech firms expect to create more than

3,200
new digitally skilled roles over next 2 years.

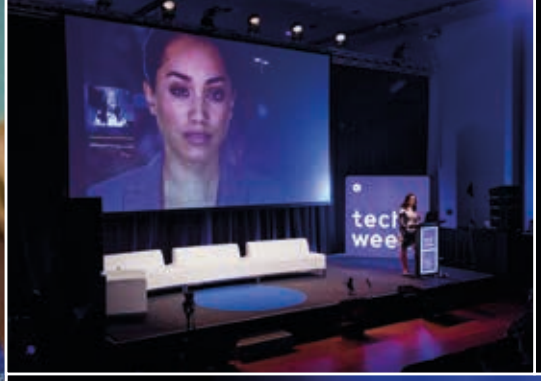
More than

1,200
extra software developers will be needed over next 2 years by those 120 tech firms alone.

Highest demand is forecast for

MACHINE LEARNING
SOFTWARE DEVELOPMENT
DATA ANALYSTS
SOFTWARE ARCHITECTS

= SKILLS GAP



tech-
week

Techweek'18

New Zealand's annual festival of innovation

19→27 MAY 2018

#twnz18
#goodfortheworld

www.techweek.co.nz

The Numbers

9	→ DAYS
24	→ LOCATIONS
540	→ EVENTS
523	→ SPEAKERS
21,000*	→ EVENT ATTENDEES
400+	→ MEDIA ARTICLES
2,100,000+	→ PEOPLE REACHED ACROSS ALL MEDIA

AUDIENCE:

17%	→ TECH ENTHUSIAST
15%	→ NON-TECHY PERSON
3%	→ MEDIA TYPE
2%	→ INVESTOR
16%	→ ENTREPRENEUR

RECEPTION:

88% Would recommend Techweek to others

68% Of people made a connection during Techweek that could help them progress their work

*Number based on number of events that used the Techweek Eventbrite account – averaged to provide a guesstimate for 351 events (excludes LUX Light Festival).

Launched in 2016, Techweek is New Zealand's annual festival of innovation that's good for the world. It amplifies the stories of individuals and companies who are changing the shape of the near future for the better.

Techweek's vision is for New Zealand to be globally recognised as a beautiful country where world leading solutions are born. It's not just about showcasing leading edge technology but amplifying brilliant ideas that are solving the biggest global challenges – innovation that's he pai mō te ao - good for the world.

This year, Techweek delivered four Headline Events, to focus on New Zealand's strengths including the innovation ecosystem (Auckland), AgriTech (Tauranga), Creative Tech (Wellington) and Hi-Tech Manufacturing (Christchurch).

NEW IDEAS FROM A NEW PLACE

If necessity is the mother of invention, it's no surprise that world changing ideas are born in New Zealand. Introducing the New Zealand Tech and Innovation Story.

INGENIOUS SOLUTIONS

When you want a job done differently, give it to people who think differently.

NATURAL COLLABORATORS

Being from a small country means we dream big – and teaming up helps us achieve the extraordinary.

INNOVATION FROM THE EDGE

Innovation starts at the edge, not at the centre. That puts us in the right place to change the world for the better.

GLOBAL SOLUTIONS

We've always looked beyond our shores for new challenges. That means New Zealand businesses are born global from day one.

OPEN, TRUSTED, STABLE

New Zealanders are known for doing the right thing, even when nobody is looking. That makes us the partners you've been looking for.

UpStarters

The New Zealand Tech and Innovation Story, the UpStarters, was established to form a compelling, consistent and coherent way of promoting New Zealand's tech and innovation capabilities internationally.

Over time, this story will help build New Zealand's reputation as a credible source of world class solutions.

Technology and innovation now represents a third of New Zealand's export earnings, and as New Zealand's fastest growing sector it plays a critical role in growing New Zealand's economy. By building New Zealand's reputation as a hi-tech, innovative country, more New Zealand businesses will be able to compete and succeed on the world stage. This in turn will generate greater prosperity for all New Zealanders.

Upstarters is a collaborative project, led by NZTech with support from New Zealand Trade and Enterprise (NZTE), New Zealand Story Group, and the Ministry of Business, Innovation and Employment (MBIE). The Story messaging was created from insights gathered via one-on-one interviews with global leaders in the New Zealand tech community, and through workshops with tech businesses throughout the country. These messages were tested for relevance offshore in East Asia, the United Kingdom and Europe and then further refined.

STARTERS

www.techweek.co.nz/upstarters/

Digital Nations 2030

555 delegates

90 speakers

20 countries

digitalnation.nz

www.digitalnations.co.nz

Building our Digital Nation

The Digital Nations 2030 summit was held to help shape the future of digital government, society, business and economies on a global scale. Held on the 19-20 February 2018 in Auckland, New Zealand, the international summit coincided with visiting delegations from the world's leading Digital Nations as they arrived to attend the D5 meeting. International thought leaders were joined by digital leaders from throughout New Zealand's Government and industry to engage in dialogue on actions needed to create a truly digital nation by 2030.

Emerging and disruptive technologies are creating new business models, paradigms and opportunities. Our lives, communities and workplaces are evolving every day, and futurists forecast that anything that can be digitized or automated will be.

In 2030, daily life will include cashless payments, digital house keys, doorstep drone deliveries, electric driverless cars, facial recognition for security, screens will be replaced and more.

The Summit was designed to support a growing national dialogue to help inform the Government's Digital Economy and Inclusion Ministerial Advisory Group (DEDIMAG) and New Zealand's soon to be appointed CTO, as they build a national digital strategy for New Zealand.

Developing a digital nation requires firm commitment from governments and its citizens. The enabling factors of a digital nation include government digital services, connectivity, education and cybersecurity. Together these elements build a strong digital foundation for citizens to participate in the digital economy at all levels.

Connectivity is the bedrock of a digital nation. Continued investment in infrastructure networks enables a nation to engage in the digital economy on a daily basis.

Education is another foundation element of creating digital nations. The role of education in creating digital nations is ensuring the next generation has the skills to be positive digital citizens. It also has a role in upskilling those already in the workforce to ensure they remain relevant and able to participate fully in society.

Cybersecurity, most often a public/private partnership ensures an open, yet safe and secure country. This also includes individual responsibility for participating safely and securely in a digital environment.

Alongside leadership, the Government's role includes the development and implementation of **digital services for citizens**. This may include digital identity, accessing information, online voting, tax returns and more.

> **"This isn't something Government can do alone, but together, we can change the world."**
>
> Minister Clare Curran

Future focused forums included:

"Life in 2030 will include 'always on' virtual assistants, biofacturing, biometrics, low cost gene editing and implantables."

World Economic Forum

Hi-Tech Awards 2018

A New Zealand Hi-Tech Award is one of the technology ecosystem's most sought-after accolades. They have been awarded since 1994 to New Zealand's most successful high-tech companies and highest achieving individuals.

The Awards programme, administered by the independent New Zealand Hi-Tech Trust, promotes tech as a leading contributor to New Zealand's economy and export success.

www.hitech.org.nz

2018 Winners

Xero Hi-Tech Young Achiever Award

Winner: Aliesha Staples

Visa Most Innovative Technology Solution for the Public Good

Winner: Emergency Q by: Healthcare Applications Ltd

IBM Hi-Tech Inspiring Individual of the Year

Winner: Lillian Grace

ATEED Most Innovative Hi-Tech Solution for the Creative Sector

Winner: Dexibit

Callaghan Innovation Best Hi-Tech Maori Innovation

Winner: Straker Translations
Highly Commended: Code Avengers

Duncan Cotterill Most Innovative Hi-Tech Software Solution

Winner: Dexibit

Endace Most Innovative Hi-Tech Hardware Product

Winner: Enatel

Kiwibank Most Innovative Hi-Tech Service

Winner: Beca

Quick Circuit Best Contribution by an Internationally Headquartered Company

Winner: IBM

NZTE Most Innovative Hi-Tech for the Agritech Sector

Winner: Gallagher Group

New Zealand Venture Investment Fund Hi-Tech Start-up Company of the Year

Winner: Banqer
Highly Commended: Code Avengers

Coretex Hi-Tech Emerging Company of the Year

Winner: Ask Nicely

PwC Hi-Tech Company of the Year

Winner: Invenco

Flying Kiwis Hi-Tech Hall of Fame

CLAUDIA BATTEN

2018 Inductee

Recipients of the Tait Communications Flying Kiwi Award are individuals who have made a sustained and outstanding contribution to New Zealand's hi-tech industries.

Being named a Flying Kiwi is recognition of their professional achievements and their service in promoting, educating and mentoring others. Collectively, they make up the New Zealand Hi-Tech Hall of Fame.

2018 Inductee: Claudia Batten

From Claudia's roots in commercial law she has been a founding member of two highly successful entrepreneurial ventures. As part of the founding team of Massive Incorporated, she helped pioneer 'digital' as a media buy. She co-founded Victors & Spoils, the first advertising agency built on the principles of crowdsourcing. Claudia also co-founded Broadli, to redefine how we use digital connectivity to power networking.

More recently, Claudia has spent three years running North American operations for New Zealand Trade and Enterprise (NZTE), with the goal of bringing disruption into government while supporting the growth of New Zealand exports in North America. She is a Director of NZX listed digital travel company Serko and digital advisor to the board of Westpac New Zealand.

Claudia graduated Victoria University of Wellington in 1998 with degrees in Law (Hons) and Commerce. Claudia remains a strong supporter of the startup scene and believes that New Zealand must be part of the digital world to close the geographic divide, remain relevant, and increase its prosperity.

NZ HI-TECH AWARDS 2018

NNER
NZ
HI-TECH
AWARDS
2018

TECH AWARDS

Wellington

STRAKER TRANSLATIONS
NZ HI-TECH

NZ
HI-TECH
AWARDS

WINNER
CATIONS
WARDS 2018
NZ
HI-TECH
AWARDS

NZ
HI-TECH
AWARDS

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