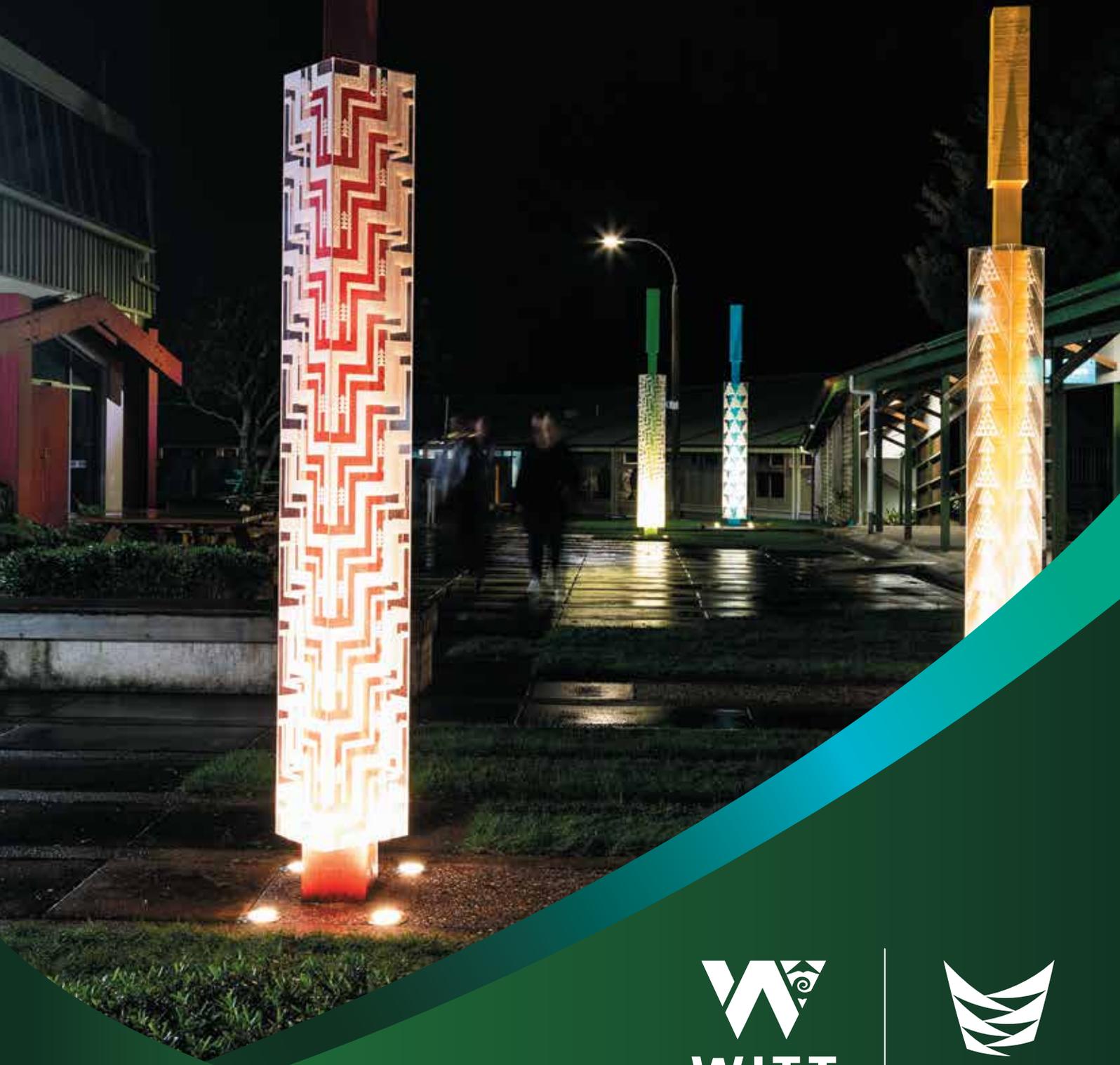


Te Korowai Mātauranga o Taranaki

The Cloak of Knowledge

SHARING THE VISION FOR EDUCATION
IN TARANAKI 2022 - 2032



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OUR STORY

Taranaki in Transition

Kia ora! Nau mai ki Te Kura Matatini o Taranaki.

The workforce and economy of Taranaki are built on ingenuity, hard work and a rich cultural and natural heritage.

Taranaki is facing rapid economic, social and technological change as it moves to a low-emission economy.

Respect for our treasured place is driving this period of transformational change and our people will form the foundation that enables this change. We reach forward with the principle of kaitiakitanga to protect our environmental heritage and shape the skills of our people. It is this purposeful commitment that will shape our future low emission economy and protect our land, sea and air, and allow our people to prosper.

Te Korowai Matauranga o Taranaki has been compiled to show our people and our leaders the stories that support our vision as Taranaki's tertiary college to connect people to their future.

Becoming Te Pūkenga



WITT is also in the process of transition. We become Te Pūkenga in 2023 when we join with New Zealand's other polytechnics and industry training organisations to build a national network of integrated learning.

Being a part of Te Pūkenga means being a key partner in a national network of on-the-job, on-campus and online learning opportunities that give learners more choice and flexibility in what, where and how they learn within a high-quality and globally significant organisation.

Te Pūkenga has a relentless focus on equity and the foundations are laid to deliver on Te Tiriti o Waitangi and its principles, and most importantly to the aspirations of Māori learners, their whanau, and iwi/hapū.

Our region in transition

Taranaki's move to a low-emission economy is in-step with the global trend towards renewables such as solar and wind, but it will involve a change for our existing energy companies and workforce that will not be straightforward.

Recent research by Austudy showed that the easily transferable skills of offshore oil and gas workers to offshore wind was about 28%, indicating that 70% of that workforce would need retraining of some kind.

The Productivity Commission estimates Aotearoa New Zealand will need an extra 118,500 skilled people by 2024 to meet the challenge of the future needs of infrastructure. There is a strong need for skilled trades-people, technicians, construction workers and engineers of all disciplines in the renewable energy sector.

Lifelong learning

Lifelong learning is essential for a successful career. Lifelong learning improves resilience and employment security, increases adaptability and reduces inequity.

Our work is to place tools in the hands of people at every step of their career journey so they learn skills and are able to progress their lives and contribute to their whānau and community.

Behind the ideas and initiatives in this booklet are our people; staff, students and our community, who have a bright vision for the future. This booklet is designed to assist you and our leaders to glimpse the promises of that future, and in partnership, build an inclusive, skilled and future-ready network of work-ready people in Taranaki.



Te Kura Matatini o Taranaki (WITT) Executive Leadership Team

Left to right: **Allie Hemara-Wahanui** (Kaiārahi/Deputy Chief Executive), **Daniel Fuemana** (School Director - Trade Training, Primary and Creative Industries), **Bryce Turner** (School Director - Māori Enterprise, Business and Technology), **Dr Ruth Crawford** (School Director - Nursing, Health and Wellness), **John Snook** (Chief Executive), **Peter de Rungs** (Kaiārahi Matāmua) (1967 - 2022), **Nicola Conley** (Director - Corporate Services), **Nita Hutchinson** (Academic Director), **Zanetta Hinton** (Director - Student Success), **Kyle Hall** (School Director - New Zealand School Engineering, Energy and Infrastructure), **Te Rina Waiwiri** (Executive Manager).

E Peter, e nga roimata a Rangī, e te punawai a Papa. Haere, haere atu ra e te rangatira ki ou tatou tupuna. Moe mai ra.

Te Korowai Mātauranga o Taranaki

The cloak of knowledge

WITT's purpose is to connect people to their future, providing education to the region of Taranaki that prepares people for employment. The desire to cloak the region of Taranaki in knowledge (Te Korowai Mātauranga o Taranaki) is the heart of our vision.

WITT has four schools and four pou. The intertwining of the four schools and the four pou is like the weaving of the cloak, that covers the Taranaki region in knowledge.

- School - Nursing, Health and Wellness (includes Social Work in the portfolio)
- School - Māori Enterprise, Business and Technology (includes Education in the portfolio)
- School - Trades Training, Creative and Primary Industries
- NZIHT New Zealand School of Engineering, Energy and Infrastructure



These pou remind us of what is important. They represent the pursuit of knowledge, the challenges we face, the communities we are connected to and our shared identity of Taranaki. We celebrate these pou on the anniversary of 50 years of service to the Taranaki region.

From degrees, diplomas and certificates to stand-alone and part-time courses there's a programme to suit everyone, no matter the stage of the career journey.

TE POU TOKOMANAWA

Lifelong Learning

Our central pou, supporting the ridge pole of our whare. Lifelong learning is at the heart of everything we do, from connecting with others, to giving back with care, to growth. We are always developing who we are, what we are and why we are.

TE POU AO

Employment Opportunities

This pou represents the action of scooping up with both hands, or, to take in quantities. We build resilience and improve lives by improving wealth and wellbeing through workplace training and re-training opportunities.

TE POU TUARONGO

Global Citizenship

This pou supports the ridge pole at the back wall of our whare. We are a connector of people, communities and businesses linking ākongā to the wider world.

TE POU ARONUI

Sustainability

This pou represents focus, inclination and desire. We care for the future of Taranaki and value the privilege of giving back to our communities

Our rohe



The iwi boundaries shown on the map are over-simplified and are not intended as an accurate representation of iwi areas in Taranaki.

Te Pou Tū

Te Pou Tū is our commitment to tautoko Māori and Pasifika ākonga (students). When ākonga enrol with us they become part of the Te Pou Tū whānau regardless of what they study, where they study, the level or time commitment. Te Pou Tū is about whānau and supporting ākonga from day one to help them be successful in whatever they want to do.



All Māori and Pasifika students will automatically become part of the Te Pou Tū cohort (with the ability to opt out at any time) and receive

- Help to connect with iwi and hapū
- The opportunity to take part in the Te Pou Tū Mentoring Programme – supporting ākonga to achieve their goals
- Regular whakawhanaungatanga activities to build meaningful connections (including whānau)
- Tuakana/Teina initiatives to give extra support including outside the classroom
- Promotion to Taranaki Māori/Iwi employers
- Handy study group sessions with kai (kaitahi)
- Visits to learn more about culturally significant sites like Taranaki Maunga, Parihaka, etc
- The opportunity to hear from invited guest speakers like sportspeople, historians, business leaders, etc
- Enrolment on driver licence training through Pathways Awarua



Doing it for my whānau - Tina Moeahu

Taking a leap of faith and making a life changing career decision was what kicked off 2021 for Tina Moeahu (Te Atiawa, Ngāruahine, Ngāti Porou, Taranaki, Te Arawa).

“Three generations of my whānau have studied at WITT,” she said. After completing some work experience and with encouragement from Dave Robinson (Te Atiawa, Ngāruahine) of Dreams Electrical, the decision to study Level 3 Electrical Engineering at WITT decided her new career path.

“Thankfully WITT’s local, as without the support from whānau and friends I would struggle to achieve what I have. Achieving this tohu will also acknowledge their commitment and manaakitanga to me.” Tina’s message to the people of Taranaki is simple. “If you want to learn in an environment that supports and encourages students, WITT has an incredible curriculum of exciting programmes that can help you”.

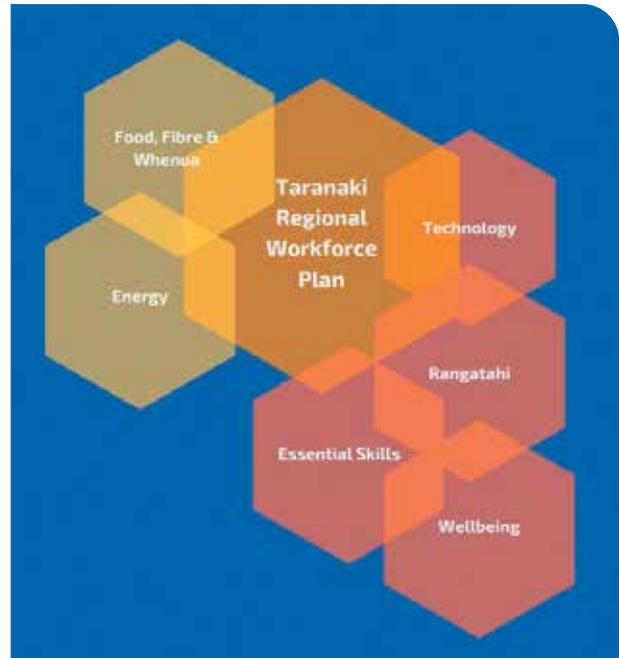
Regional Skills Leadership Group

The Taranaki Regional Skills Leadership Group (RSLG) has been established to identify and support better ways of meeting future skills and workforce needs in the region.

As one of the 15 RSLGs in Aotearoa, the group is part of a joined up approach to labour market planning which will see our workforce, education and immigration systems working together to better meet the differing skills needs across the country. The group will provide independent advice that the region, employers and government agencies can act on.

The Taranaki RSLG launched the first Regional Workforce Plan (RWP) in June 2022, with an initial sector focus on food, fibre and whenua (Kai, Kaka Tupu me te Whenua) and energy (Pūngao).

The health workforce has also been identified as a high priority sector, and the RSLG will begin to explore this, reporting in June 2023, and also cover the construction, infrastructure and engineering sectors. The work of the Taranaki RSLG and their RWP will build upon existing regional strategies, including Te Aranga o Taranaki, Taranaki 2050, and Tapuae Roa.



Members of the Taranaki RSLG

Co-Chairs (above)

- Charlotte Littlewood
- Dr Will Edwards

Members

- Tanya Anaha
- Rachael Berndt
- Gloria Campbell
- Arun Chaudhari
- Dan Epiha-Netana
- Mike Green
- Anaru Marshall
- Jen Natoli
- Andrew Pepper
- Brian Ropitini
- Simon Singh

Labour Supply

- Youth NEET (aged 15-24 not in education, employment or training) rate rising 3.7 percentage points to **15.6%** (*HLFS)
- Regional unemployment of **4.1%** (HLFS)
- Total migrant workforce **under 1200** people in the region
- **24%** of migrant workforce eligible for New 2021 Residents Pathway based on current visa held

Essential relationship with WITT

The work of the RSLG is essential to the delivery of programmes by WITT. Being a vocational training institution means being fit-for-purpose with the changing needs of the region is critical. The Taranaki RSLG offer insights in both their regional and national capacity.

* Household Labour Force Survey

Read the Taranaki Regional Workforce Plan - Te Mahere ā-Rohe - Year 1 at www.mbie.govt.nz/business-and-employment/employment-and-skills/regional-skills-leadership-groups/taranaki/regional-workforce-plan/

Project Masterplan

Due to the difficult operating environment that WITT has faced over the past 15+ years there is now a requirement for significant investment into buildings and facilities to bring WITT’s buildings back up to a comparable standard of most other Institutes of Technology and Polytechnics (ITPs) in New Zealand. WITT has developed a Campus Masterplan to enhance the student experience, increase engagement with the community and grow student numbers.

“Te Pūkenga is preparing a Capital Asset Management Plan for the network across New Zealand. Early work highlights that WITT (Taranaki) and NorthTec (Northland) are in need of substantial capital investment in the next decade. To enable early action on the vision of Taranaki and WITT, we’ll need local and central Government funding support. Te Pūkenga looks forward to working with the region on the growth plan.”

Tumu Whakarae Chief Executive, Te Pūkenga

WITT’s Educational and Economic Transformation Plan

STAGE	DESCRIPTION	ESTIMATED COST	APPROX. TIME
STAGE 1	Creating an entrance, ‘heart and soul’ for WITT at Bell Street and developing the Industry Hall. Establish Infrastructure Training Park with community. Participate in developing the TOPEC site in North Taranaki. Establishing the Centre of Excellence in Energy and Engineering.	\$12m	2023-2025
STAGE 2	Bringing WITT into the 21st century: Upgrading and opening up A and B Block, and developing F Block as a community auditorium. Connecting with Tūparikino Active Community Hub.	\$33m	2024-2028
STAGE 3	Enhancing our trades training offering through a new centre. Participate in developing an EcoCampus in South Taranaki.	\$22m	2023-2028
STAGE 4	Partnering with the community: Taranaki Health Education Precinct.	\$41m	2026-2033
STAGE 5	Taking the Māori Enterprise and Business School to the CBD, potentially co-locating with other companies and agencies in an innovation hub. Participate in developing the Business Park in South Taranaki.	\$36m	2025 onwards



Entrance to WITT



Trade Training



Health Precinct



A and B Block Atrium



STAGE

1



Library



Industry Hall

Te Kura Matahanganga Within the Puketapu and Ngati Tawhirikura hapū rohe

New Plymouth District Council has fully supported investing \$1 million in WITT's new training venture focused on teaching civil construction skills in a real life setting.

The vision is to create an infrastructure training park to address the skills and capability gap within the civil construction sector.

WITT's Director of Engineering, Energy and Infrastructure, Kyle Hall spoke to the Council meeting in support. He estimated about 120 students could study at the facility next year, growing to more than 200 by 2026.

The initiative was applauded by mayor Neil Holdom and councillors who said it represented an opportunity to "make a real difference" for people. The Infrastructure Talent Pipeline (ITP) is a group of 12 Taranaki businesses that have partnered together with WITT to actively support youth into the infrastructure industry.

Leading the project is Taranaki local Dave Hudson who has had a successful career as a manager designing and developing mines for iron ore and lithium extraction.

Now he's responsible for developing WITT's Infrastructure Training Park where young and old will learn new skills before stepping into civil construction jobs. The people joining him at the infrastructure park will be school leavers, unemployed people and people looking to retrain and start a different career.

The development of the infrastructure park will happen in stages. Work is underway on the first stage, which is to get the park up and running. A dome workshop that will include a couple of classrooms is in the planning stage now, and students will get an opportunity to create the



park as they learn. Stage 2 requires surveying and ground work planning and development. The park will have a ring road and will need services, such as drains and water, put in place. These all offer very practical opportunities to learn with hands on the tools, which Dave says is one of the best ways to learn.

He describes the equipment that will be at the infrastructure park, as "anything you see on the road with construction crews."

"It's also been great to get support from local infrastructure companies like Fulton Hogan and City Care. They have ideas of what the students need, which is a valuable and essential component of the programme," says Hudson.

Dave himself has been a high level construction manager and is able to give students the benefit of his experience and insight into what is required when they enter the workforce. He acknowledges the support the New Plymouth District Council has given to the idea, not only in significant funding, but in supporting one of the first projects 'Build a Bridge'. There is a massive need for skilled construction workers and it's nearly certain that qualifying students will be able to step into a rewarding career building lots of great infrastructure.

Member companies cover the full range of disciplines for the sector, and include:

Beca • BTW • City Care • Downer • Fulton Hogan
• Red Jacket • NPDC • Offshore Plumbing •
Taranaki Civil Construction • Whitaker Civil
Engineering • WSP • Plant & Platform



WITT and TOPEC Collaboration

National Centre for Sustainable Tourism and Biodiversity and the Food and Fibre Centre of Excellence

WITT and the Taranaki Outdoor Pursuits and Education Centre (TOPEC) are working together to bring to life their shared vision for sustainable tourism and biodiversity education and support to become Taranaki's Food and Fibre Centre of Vocational Excellence through new programmes and projects which include an education centre and tunnel house that will be constructed by WITT's Trades Academy students and moved on site.

Programmes include

- Pest Operations
- Horticulture
- Conservation Operations
- Organic Primary Production
- Environmental Management
- Leadership
- Outdoor Leadership
- Outdoor and Adventure Education
- Outdoor Experiences
- Pest Eradication and Bush Survival

**Ngāti
Tawhirikura**

Te Kaunihera-ā-Rohe o Ngāmotu
**New Plymouth
District Council**


WILD FOR TARANAKI
Te Tātou Teiao – Māranāa Papanūnuku.


**Taranaki
Regional Council**


**Department of
Conservation**
Te Papa Atarehau



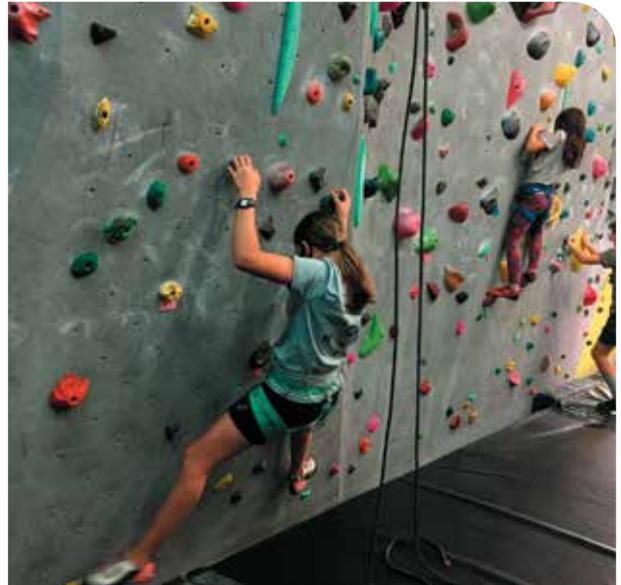
TOPEC's Sustainability Masterplan

TOPEC will modernise its existing facilities, which includes an Eco Leadership Lodge (recycle-designed accommodation and hui centre), cabin accommodation for 80 and two modern learning classrooms.

The main lodge is over 60 years old and will be reconstructed as a fit-for-purpose Eco Outdoor Education Hub.

The Eco Leadership Lodge will be a central place for TOPEC. Near the entrance to the site, it will have large kitchen and dining facilities, an indoor climbing wall, administrative offices, upper level classrooms and space for corporate functions and retreats.

It will all be designed for maximum exposure, visibility and solar generation. TOPEC has a goal to be off-the-grid by 2030.



WITT and Nature's Classroom E Hoki Ana Hei Kaitiaki - Return to Guardianship

WITT is actively leading a project which is seeing broad collaboration in revitalising areas around TOPEC to create significant assets for our community and to create nature's classroom. The following community groups are participating.

Ngāti Tawhirikura hapū

Te Ātiawa hapū Ngāti Tawhirikura recently received funding assistance from the government towards its restoration of the Waiwhakaiho River from the mountain to the sea. The work will include fencing, planting, weed control and pest eradication to increase habitat for taonga species and help migratory fish. The Jobs for Nature funding helps the environment and meet wider hapū goals to restore the Waiwhakaiho Awa which was a major food source for the local population.

New Plymouth District Council

On 28 September 2021 the New Plymouth District Council approved a proposed variation of the lease to the TOPEC Trust for the Council administered land that they occupy on Hydro Road, New Plymouth. The variation expands the lease area and permits the construction of an outdoor classroom, and community volunteer agreements allow TOPEC stakeholders to look after the Burgess Park Reserve around the TOPEC site.

Department of Conservation

TOPEC has signed community agreements with the Department of Conservation to provide predator control operations at the Meeting of the Waters Reserve on both sides of the Waiwhakaiho River, up the Araheke Stream and across to Umutekai Wetlands. Students and volunteers will run the trapping project and use the area as a learning ground to take to other projects around Taranaki.

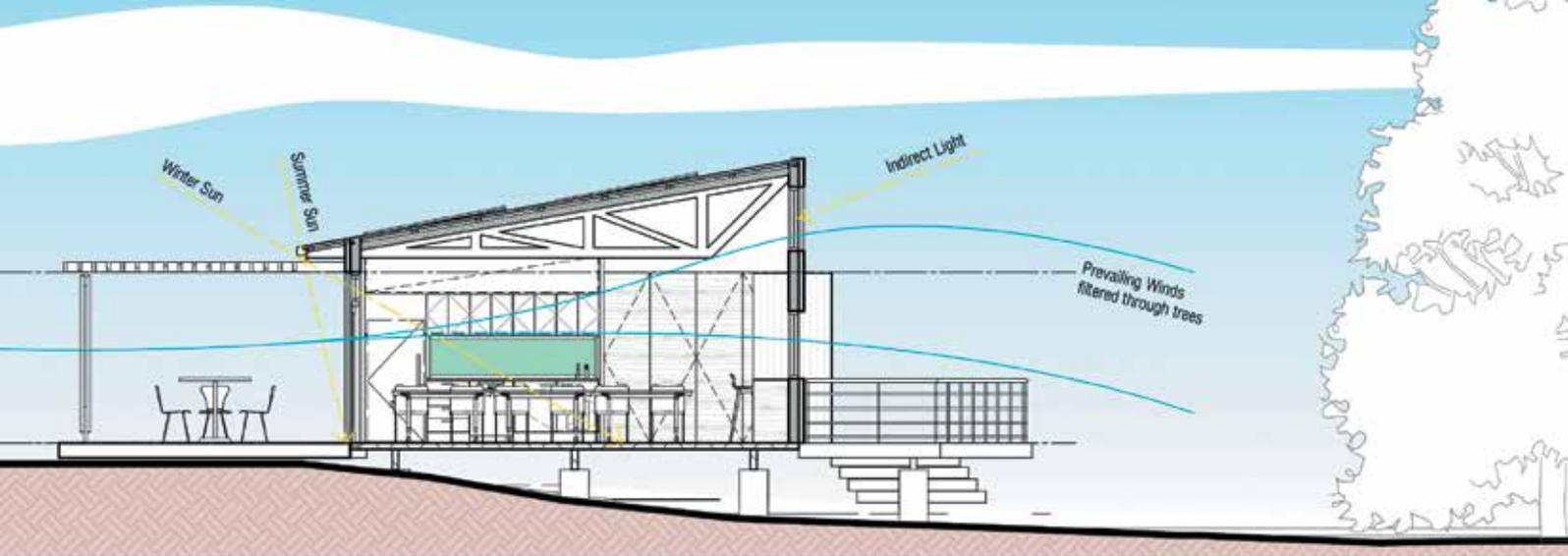
Taranaki Regional Council

Taranaki Taku Tūrangā (Towards Predator Free Taranaki) is a large-scale project aimed at restoring Taranaki's unique wildlife, plants and protecting the region's lifestyles and livelihoods by removing introduced predators.

Wild for Taranaki

Wild for Taranaki is the region's biodiversity trust supporting more than 45 groups and organisations working to protect and enhance the unique native plants, animals and ecosystems within Taranaki. Its purpose is to support and coordinate members for better efficiency, grow funding for the sector, and lead the region in a connected vision of thriving Taranaki biodiversity.





PROJECT MASTERPLAN - TOPEC COLLABORATION



WITT Builds Solar Powered Eco Classroom for TOPEC

An education centre will be constructed at the new extension of the TOPEC site by WITT's Trade Academy students. The centre will highlight a respect and relationship with our natural environment.

This will come from drawing its electricity from renewable energy, to ecologically friendly ablution blocks, to the construction and utilisation of a tunnel house for training and production in sustainable horticulture.

All these contribute to TOPEC and WITT's goals of providing opportunities for people to enter into sustainable tourism, biodiversity and primary industry education and qualifications.

The Eco Education Centre

The Eco Education Centre is the launching pad for a different type of inclusive education. Perfect for all students. Perfect for the environment. The investment in this will be felt for generations.

The projected cost for the centre is approximately \$1,050,000 with WITT directly funding \$500,000. Importantly, as WITT construction students build the Eco Classroom, they will learn modern passive-build skills.

The TOPEC-WITT partnership is seeking support for the balance of \$550,000 from the philanthropic community in Taranaki.

This will be an investment in the future careers of all students across Taranaki, as well as an investment in the region we call home.



A Tunnel Greenhouse

Teaching the world how to feed itself

WITT and TOPEC join forces to bring multi-generational opportunities to Taranaki.

As part of the vision to establish a national centre for sustainable tourism and biodiversity, a 336m² tunnel greenhouse will also be constructed.

The WITT sustainable horticulture programme will utilise this 11.2m wide by 30m long tunnel greenhouse. Added to the costs will be greenhouse concrete pad, automated watering system and passive renewable electricity and heating system. .

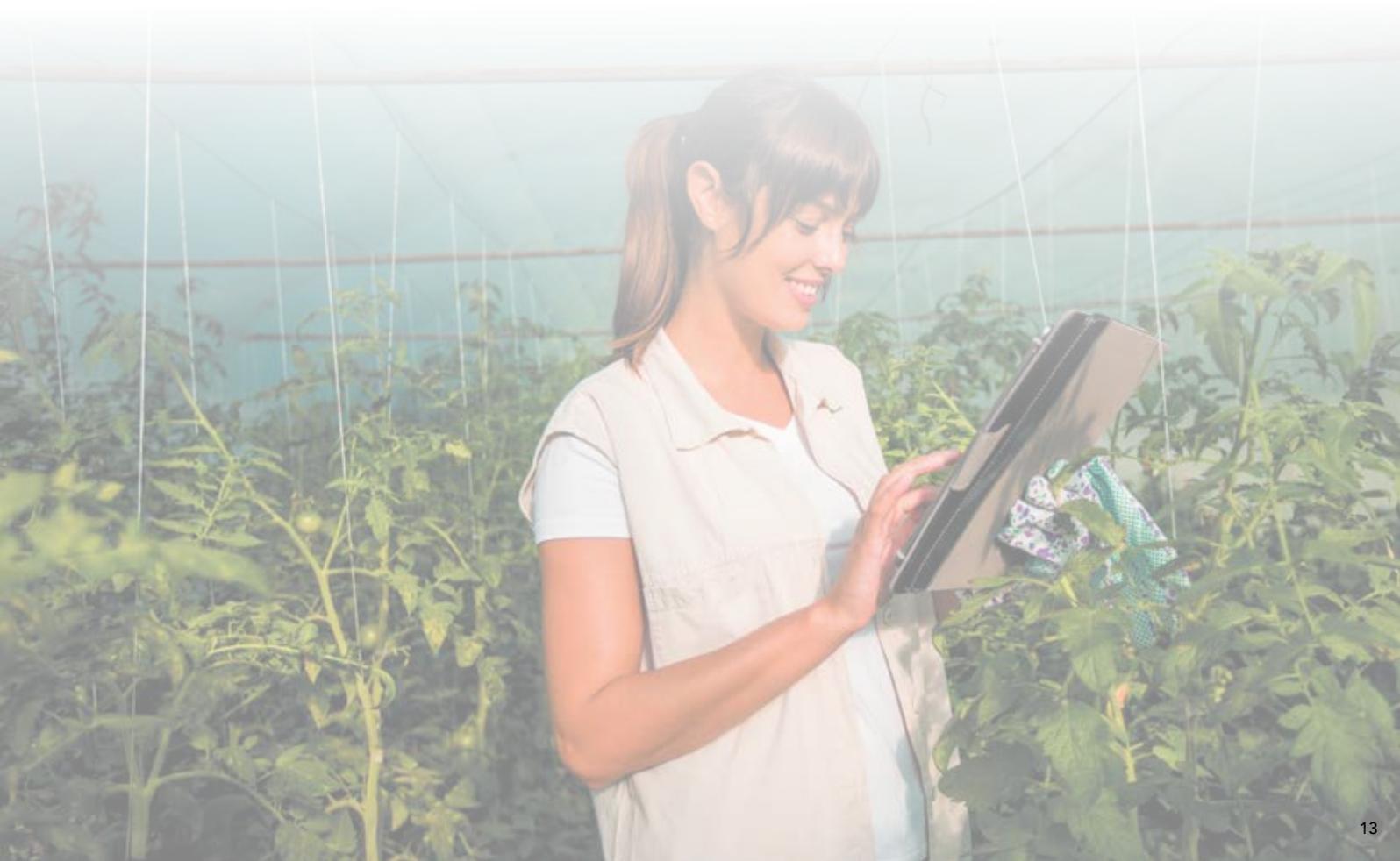
The eco educational centre, along with the tunnel greenhouse, will highlight our respect, relationship with, and guardianship of our natural environment.

Regional Economic Development

Plant & Food Research undertook an assessment of Taranaki. A key finding is that there is approximately 207,000 hectares of land potentially suitable for horticulture within the boundaries



of the Taranaki Regional Council. This creates a significant economic and employment opportunity for the region and its young people.





Becoming the Centre of Excellence in Energy and Engineering



As the recognised energy capital of New Zealand, Taranaki is well placed to be Te Pukenga’s energy and engineering Centre of Excellence (CoE) already bringing together the right people to share best practices and knowledge. From innovation testbeds to EV car design, WITT is at the heart of innovative engineering projects and training the next generation of workers and innovators to support the transformation of the energy industry.

WITT is positively connected to many industries which will lead the energy transition, enabling our curriculum to maintain a level of relevance and responsiveness to industry needs.

Some of the areas that are anticipated to emerge include electric vehicles; hydrogen fuel technology; renewable generation technologies (hydro, wind, solar, geothermal, wave, tidal etc.).

WITT is supporting the energy industry by developing a Centre of Excellence in Energy and Engineering, to provide work-ready graduates who are skilled in the latest technologies.

As a Centre of Excellence we will:

- Support the growth of excellent vocational education with a focus on teaching, learning and research
- Support the development and sharing of high-quality curriculum and programme design
- Be a consortium with expert representation from industry, the wider sector, and a range of other areas, for example iwi and vocational education representatives
- Have a national focus
- Address issues and opportunities with a significant strategic impact, ideally with wide-reaching benefits across the sector
- Solve real problems and grasp viable opportunities

Forming Relationships to Advance Energy Innovation

Ara Ake, the national future energy development centre, and WITT established their memorandum of understanding (MoU) to enable the acceleration of sustainable energy in Aotearoa New Zealand.

As a result of the agreement, WITT will be focusing on developing the renewable energy workforce and will initially deliver a programme in 2022 to upskill electricians in solar panel installation. WITT will also deliver energy courses for third year Bachelor of Engineering Technology students. Ara Ake will offer several scholarships to students taking energy related courses and who are well connected to their community to use their learnings to make a difference.

Ara Ake and WITT will collaboratively develop internships and mentorships at Ara Ake headquarters in New Plymouth. WITT employees will have access to space within Ara Ake's headquarters to teach energy related micro-credentials.

"We are delighted to announce our MoU with WITT," says Ara Ake Chief Executive, Dr Cristiano Marantes.

"With the combination of not only our skills, knowledge, and expertise, but the shared recognition of the importance of accelerating low emissions energy in Aotearoa, I am certain this agreement will strengthen the opportunities for students and the region's transition," Marantes concludes.

The two organisations will work collaboratively to develop technology demonstration sites, also known as 'testbeds' for the projects that Ara Ake is working on with Singapore based EcoLabs Centre.

This will enable WITT engineering students to learn from innovators and get beyond the front gate on projects.

"Our aim is to also support Venture Taranaki's regional economic development plan launched in 2017-2018", says WITT Chief Executive John Snook.

"We are focused on providing education that supports a workforce transition to a net-zero future and I am delighted to be aligned with Ara Ake under our new agreement."

CE of WITT John Snook with CE of Ara Ake, Cristiano Marantes, signing the memorandum of understanding between WITT and Ara Ake which includes a testbed site for energy innovation.





Blocks A & B, which will form the centre of the energy innovation testbed.

PROJECT MASTERPLAN - CENTRE OF EXCELLENCE

Partnering with Ara Ake and Ecolabs



New Zealand and Singapore’s energy innovation partnership has been strengthened with the announcement of an energy innovation testbed at WITT.

The project is a collaboration between WITT, Ara Ake and EcoLabs Centre of Innovation for Energy, Singapore.

John Snook (CE WITT) and Cristiano Marantes, (CE Ara Ake) presented to Ms Low Yen Ling, Minister of State for the Ministry of Trade and Industry (Singapore), about the launch of a real-world demonstration site at the WITT, now open to energy innovators from both Aotearoa New Zealand and Singapore.

WITT is transitioning one of its main buildings at the Bell Street campus to 100% renewable energy sources and to reduce energy consumption by up to 50% by 2025. By attracting the best innovators from New Zealand, Singapore and beyond, WITT is one step closer to achieving these objectives. They are partnering with EcoLabs Centre of Innovation for Energy, which has successfully deployed real world testbeds across Singapore and in the Asia Pacific region.



Opportunity for WITT students

This project will also provide the opportunity for students to get involved with the deployment of innovative energy solutions, supporting the development of the skills that will be needed in a low carbon future.

Joining Forces for Clean Energy with the University of Canterbury

The University of Canterbury (UC) Tumu Whakarae Vice Chancellor Professor Cheryl de la Rey and WITT Tumu Whakarae Chief Executive John Snook have signed a memorandum of understanding to establish a strategic partnership to support the transition to clean energy and improve accessibility to higher education in Taranaki.

Focus on Sustainable Energy

The agreement creates opportunities for joint teaching and for students to move more easily from one institution to the other. The partnership will have a focus on sustainable energy, business studies and on supporting mana whenua tauria/ Māori students.

“We believe that by working together and sharing our knowledge and expertise we can be more effective at co-creating real solutions for the challenges ahead,” says Professor De la Rey, Vice Chancellor, University of Canterbury.

“Taranaki is an early adopter in the transition to clean energy, moving away from fossil fuel industries, and we are looking forward to playing a part in the region’s ambitious Taranaki 2050 Roadmap. This could be an example for the rest of Aotearoa to achieve carbon emission goals while providing equitable transitions and sustainable community development,” says Professor De la Rey.

The agreement brings opportunities for WITT students and the region, says Snook.

“A key focus for WITT is to provide an Energy Centre of Excellence, where innovation and sustainability in energy can be taught to students, allowing for the dramatic workforce transition asked of Aotearoa New Zealand in the Net Zero Carbon Act.”



The University of Canterbury Tumu Whakarae Vice Chancellor Professor Cheryl de la Rey and WITT Tumu Whakarae Chief Executive John Snook.



Forming University Pathways with Victoria University of Wellington

WITT is excited to be partnering with the Te Herenga Waka, Victoria University Wellington (VUW) to create opportunities for rangatahi to stay in Taranaki and study while pathwaying to degree programmes at Victoria University.

Joint BEng (Hons) Programme (VUW)

Study the first year with WITT
Complete years 2-4 with VUW in Wellington

- Software Engineering
- Cyber Security Engineering
- Electrical and Electronic Engineering

Joint BSc Programme (VUW)

Study the first year with WITT
Complete years 2-3 with VUW in Wellington

- Computer Science
- Computer Graphics
- Games or Artificial Intelligence

Scholarships

WITT has scholarships available to study full-time engineering in New Plymouth, either at diploma or degree level and welcomes enquiries regarding these. These scholarships are proudly sponsored by Ara Ake and GNS.

Te Herenga Waka Vice-Chancellor Professor Grant Guilford and WITT CE John Snook signed a formal memorandum of understanding at Victoria University Wellington in November 2021.



Renewable energy initiative

An agreement between Te Herenga Waka - Victoria University Wellington and WITT has been set in place which will support joint programmes and micro-credentials, collaboration between staff, students, and others, shared research and facilities, and secondary school outreach in the field of renewable energy.

"We are delighted to partner in this joint initiative with the WITT centred on the renewable energy sector," says Professor Dale Carnegie, Dean of Engineering at the university.

"The agreement goes a long way to support WITT's vision to bring transitional energy education to Taranaki. We are committed to positioning Taranaki to become an education energy centre of excellence in Aotearoa. Working with the university and sharing our knowledge and expertise means we can be more effective at co-creating real solutions for the challenges ahead and bringing opportunities for WITT students and the region," WITT CE John Snook says.



Establishing an International Research Collaboration

Investigation is underway to determine the feasibility of an international research project between WITT, Victoria University in Wellington (VUW) and the Indian Institute of Technology Delhi.

The project will be developing the utilisation of ammonia in a spark-ignition engine. Both India and NZ are exploring hydrogen (H_2) to reduce reliance on fossil fuels. The government of India implemented the Green Ammonia Policy and is expected to make it available due to surplus hydrogen and ammonia (NH_3). The ammonia can also be utilised in spark-ignition engines for power generation. The generated power can be used for an in-house plant as well meeting peak load power demand.

Storing hydrogen in ammonia is a cost effective compared to other storage medium (gas, liquid and hydride). Both India and NZ have committed to carbon-neutral status and ammonia could enable this transition. The Taranaki economy has been based upon methane extraction. The drive for a just transition to carbon neutrality is underway, with the establishment of sustainable energy research.

WITT has a memorandum of understanding with VUW to engage in testbed research in the Taranaki region. International collaborations are part of both WITT's and VUW's education strategies for training a high-value skilled workforce for future energy development and deployment.

The intention of the work-stream is to explore the subject area related to Indian and NZ needs and to identify opportunities for fuel substitution of carbon-based fuels with NH_3 in heavy vehicles and stationary engines. This will include identifying the perceived technical and design challenges which would result if NH_3 were to be used as a fuel.

The ultimate outcome will be a technical feasibility study of the opportunity to use NH_3 rather than, or in combination with, H_2 as a fuel in heavy vehicles. This could piggyback on the existing New Zealand plans to implement a H_2 fueling network by 2025.



H-25 Series gas turbine MITSUBISHI HEAVY INDUSTRIES, LTD.



Indian Institute of Technology Delhi

The Indian Institute of Technology Delhi is one of 23 IITs created to be Centres of Excellence for training, research and development in science, engineering and technology in India.

Since its inception, over 48,000 students have graduated from IIT Delhi in various disciplines including engineering, physical sciences, management and humanities and social sciences. Of these, nearly 5,070 received Ph.D. degrees. The number of students who graduated with B.Tech. degree is over 15,738. The rest obtained Master's Degree in engineering, sciences and business administration.

WITT's Sustainable Pathway

Te Pūkenga is implementing He Pou A Rangi, the Climate Change Commission's report and is establishing a sustainability committee to consult with emission management providers around the country. They will investigate how to assist the decarbonisation journey within ITPs supported by a sustainability strategy.

The strategy will take a holistic approach to sustainability, aligned with the United Nations Sustainable Development Goals (SDGs), to maximise the positive impact Te Pūkenga will have environmentally, socially, culturally, and economically, and working to eliminate negative impacts.

Sustainability is one of WITT's main pillars

The sustainability journey has already started at WITT by adding a 'sustainability lens' in decision-making, with a long-term focus on:

- Sustainable learning ensuring inclusive and equitable quality education that promotes lifelong learning opportunities for all
- Developing an 'Energy Hub' of educational opportunities
- Working with a broad community, both nationally and internationally
- Developing a sustainability related education curriculum
- Developing micro-credential courses to equip and inform those in the workplace

"Sustainability initiatives have been at focus at WITT for some time, both at a decision-making level and a practical level involving infrastructure improvements and a sustainability related education curriculum," says WITT's Manager Corporate Health and Safety Facilities Linda Dravitski.

Current initiatives

- Developing micro-credential courses to equip and inform those in the workplace, such as WITT's new solar energy courses
- Partnering with the community to provide energy training in association with Ara Ake (the National New Energy Development Centre) – in the form of an Energy Centre of Vocational Excellence

- Constructing a solar powered eco classroom at TOPEC
- Transitioning one of the main buildings at the Bell Street campus to 100% renewable energy sources (this project will also provide the opportunity for students to get involved with the deployment of innovative energy solutions)
- Gas boiler replacement for priority buildings on the Ngāmotu campus
- Replacing fossil fuelled vehicles with 100% fully electric vehicles and installing new electric charging infrastructure installed around the Ngāmotu campus (started in 2020)
- Continuation of the replacement of all fluorescent lighting with LED lighting across the campus (started in 2019)
- Removing all disposable cups from use on campus (and replacing a keep-cup promotional campaign)

Making South Taranaki Campus an EcoCampus

WITT believes Taranaki has an opportunity to bring leadership in creating a sustainability focused network of educational institutions.

Establishing an EcoCampus:

- Would enable a flexible phased approach to implementing an environmental management system in the South Taranaki Campus. It would phase in more efficient utilisation of resources, improve recycling and reducing waste volumes as well as reducing the carbon footprint of the campus's power utilisation.
- Could encourage low or zero emissions transport for its students where possible.
- Would be a place where students can learn new skills, repair things and up-cycle unwanted items. Students would learn about the 'whole-of-life' cost and environmental effect of items and learn how to recycle rather than replace as many items as possible.
- Would need passionate people to run the programme and look for opportunities to assist people in the community with recycled items of value. For instance, from 2013-2018 the University of Waikato diverted or redeployed over 50 tonnes of furniture and equipment, with about 60% diverted back into the university and 40% gifted to the community.

EVelocity returns to Taranaki

Building on the success of the inaugural EVelocity programme, brought to the region in 2021, the programme returns in 2022 to help generate interest in the field of alternative and sustainable energy by designing, building and racing electric vehicles.

The EVelocity programme provides high school students with the opportunity to design and build an electric vehicle (EV) with the support of specialist mentors from WITT and to bring their creations alive and compete against their peers in the finals at the end of the year.

It champions sustainability whilst inspiring young leaders to embrace careers in science, technology, engineering and mathematics. In the process they learn how to use CAD design software, strength and rigidity considerations, steering, welding, drag and resistance and Arduino programming.

WITT and Ara Ake are back on board as EVelocity partners in 2022, alongside the Motor Trade Association, and New Zealand-based EV charging producer, Evnex.

As the education partner, WITT is providing access to the support and resources that the students require for building their EVs, including classrooms for the build days, technology for the design sessions, and hands on guidance from the staff. This year's programme has been adjusted, and the teams will be working towards a final scrutinizing in September where students will ensure their vehicles are safe and ready to race.



There are over 70 Taranaki students registered for 2022, and registrations are still open.

The Taranaki regional finals are due to be held on Sunday 16 October, and the National Finals are scheduled for Sunday 4 December in Kartsport Hamilton.

“At WITT, students will be given an insight into a range of pathway and career options. Our tutors have created pathways and will discuss possibilities within engineering diplomas and degrees, fabrication courses, electronics and software programming that could all lead from a programme like EVelocity. The practical ‘real world’ focus will lead students to actively pursue this as the future opportunities are growing both locally and internationally”, Ben Naughton, WITT Director of Teaching Partnerships.



EVelocity (electric cars) made by students

Tūparikino Active Community Hub and WITT - Connected Campuses for Community Gain

The proximity of the Tūparikino Active Community Hub to WITT’s Bell Street campus means they will be more than neighbours. They will be two organisations committed to building success, wellbeing and community in Taranaki.

Added to this relationship is the partnership with Ngāti Te Whiti, Ngāti Tūparikino and Te Atiawa.

Personal well-being is key to a long healthy life, strong families and whānau and a connected and caring community.

The Tūparikino Active Community Hub is progressing. It is happening and with the support of the New Plymouth District Council and the wider community, the \$120 million project will set Taranaki on the national stage for lifestyle and events.

The project creates the platform for a significant step forward in the value of belonging to the New Plymouth and Taranaki community.

The Tūparikino Active Community Hub will also be a significant attraction and benefit for overseas students, who will be able to connect with the wider community and enjoy the recreational opportunities it will provide.

The opportunities for the people of New Plymouth and Taranaki are game-changing for a region that has been moved to the front-line of the transition.

WITT will have early childhood, café, restaurant, and education services to offer. The Tūparikino Active Community Hub will have sports services on offer. Students from WITT will be able to move between the two campuses and engage in educational opportunities at both.

Ngāti Tūparikino hapū and Ngāti Te Whiti hapū are supportive of utilising the hubs grounds and buildings to support training opportunities and educational programmes through WITT.

There will be a flow of people between WITT and the hub, so hub users will be able to access WITT’s childcare and cafés, as well as study part-time on any full-time subjects WITT offers.

WITT students will be able to study industry subjects at the hub, such as event management,



hospitality catering, coaching, fitness testing, exercise prescription, community health programmes, sport psychology, Māori model of well-being, governance, social media, marketing, and community fundraising.

WITT and the the Tūparikino Active Community Hub will help establish New Plymouth as the sustainable lifestyle capital of Aotearoa New Zealand.

Project Governance Group

Drawing on a broad range of community leaders, the Tūparikino Active Community Hub's newly formed Governance Group is taking the project to a whole new level.

Led by independent chair, Lyal French-Wright, the board representation reflects the strength and scale of the project. New Plymouth District Council is represented by their CEO, with support from Teresa Turner. Te Kotahitanga o Te Atiawa CEO Dion Tuuta is supported by hapū representatives Rita Rukawai and Don Harris. Sport Taranaki CEO Michael Carr represents the third foundation partner. Toi Foundation is represented by CEO Maria Ramsay. WITT is represented by CE John Snook. New Zealand Community Trust is represented by Garry Carnachan while Dan

Radcliffe represents Taranaki Foundation. Julian Todd, Acting General Manager of Activation, represents Sport New Zealand.



Lyal French-Wright, independent chair

Sustainable transport

Cycling has the potential to make a significant contribution to an integrated and sustainable transport system.

Cycling has little impact on the built and natural environment, particularly in relation to pollution, making it an environmentally friendly form of transport. It is also a healthy means of transport providing an alternative to the car for travel to and from WITT's precincts.

Improving cycling and walking access to WITT's various city precincts will make the city of New Plymouth less congested, cleaner, safer, more healthy and more affordable for students. It will add to New Plymouth's reputation as being a cycle friendly city.

The coastal walkway could link up all the cycling and walking paths.





PROJECT MASTERPLAN - TRADE TRAINING HUB



Te Mārunui o Tūparikino Trade Training Hub

The need for investment in the trades campus is strongly focused on responding to the increased demand for trades-based skills in Taranaki and implementing a teaching model which is learner-centred and focused on delivering skills.

WITT has recognised the need to review its trades training educational delivery operations to enable it to be flexible, connected, responsive, and focused on the emerging opportunities, as well as ensuring it remains relevant.

Without investment it is possible that sustaining trades-training at current levels may suffer due to the physical environment being unable to support the teaching and delivery model required by today's industry partners.

Achieving a vision of providing more flexible trades training will require a change in delivery strategies, changes to the facilities, and increased access to technology to underpin flexibility and customisation. The need to expand trades training in Taranaki is addressed in Stage 3 of the WITT Masterplan.

The Infrastructure Training Park is here

A year ago a training park was mooted to directly align with the Government's economic recovery packages and infrastructure stimulus package, as well as the Taranaki 2050 Roadmap to deliver more skilled engineering and trades workers to support our region.

Focusing on South Taranaki

Te Paepae o Aotea

Te Paepae o Aotea, the new combined Hāwera Intermediate and High School is well supported by South Taranaki District Council.

The opportunity exists to also co-locate the WITT Hāwera campus alongside and create an exciting continuum of educational opportunities that builds 'lifelong learning' into the lives of the people of South Taranaki.

Lifelong learning

WITT is committed to enabling lifelong learning for the people of Taranaki and its students.

In today's fast-changing world where a person will likely have multiple careers, continual learning and retraining becomes important. Lifelong learning is an attitude for self-improvement and ensures a person remains productive and employable in a world where change is creating the need for people to continue to up-skill and be adaptable.

Linked up learning centres

There are examples in Aotearoa New Zealand where links between secondary and tertiary colleges have been established. The Otago Secondary-Tertiary college is a Trades Academy where students attend both their secondary school and the Otago Polytechnic.

In South Auckland, the School of Secondary-Tertiary Studies (SSTS) provides an opportunity to complete NCEA qualifications in Level 1, 2 and 3 as well as University Entrance (UE). At the same time, students get a taste of various trades and courses available at Manukau Institute of Technology to help map out their future.

Te Paepae o Aotea is Hāwera's new year 7-13 school set to open at the beginning of 2023 on the site of the current high school using the existing high school buildings and temporary classrooms. Both Hāwera Intermediate and Hāwera High Schools will close at the end of the year, and the new combined school will open at the start of 2023 with a role of 1,000 students. The name, Te Paepae o Aotea, was gifted to the school at a ceremony held in June.

Taranaki Trades Academy

One of the longest running trades academies in the country is WITT's Taranaki Trades Academy. The academy brings secondary students into WITT's tertiary environment to enable them to gain qualifications needed for employment in the trades sector. One of the earliest projects was the 'Build a Bach' programme WITT ran in partnership with Taranaki Futures.



Line of Sight

The 'Line of Sight' concept developed by WITT and Taranaki Futures is where a student can see their future in front of them through participating in on-the-job experiences while still in school. It ensures their engagement and motivation is captivated by this real-world experience. When students move from theory-based learning to immersion life-experiences in a trade or profession, it strengthens the purpose and relevance of their academic learning.

The 'Build a Bach' project, involved more than 40 Taranaki organisations who contributed time and materials. Since 2014 more than 80 students have progressed into a trade pathway through 'Build a Bach'.

Proximity creates 'Line of Sight'

Having WITT co-located with Te Paepae o Aotea to create a South Taranaki Campus can create a seamless connection of learning from Year 7 through to secondary and tertiary learning and then to employment.

Stratford Park Transformation

Like many provincial towns in Aotearoa New Zealand, Stratford has a great history but faces the challenges of a reducing population with provincial economies and opportunities for employment changing.

The Stratford District Council already recognises a real risk for their district through a possible significant population decline. This can result in a reduction of the ratepayer base and reduction in property values, which could result in higher rates for others as well as significant cost (service) reductions by the council. Therefore, growing the population base is imperative for the long term success of the district.

The Stratford District Council has already expressed support in the project by enabling the Stratford A&P Association to borrow \$7.18 million through its capacity to access low interest loans.

The Vision

To develop a facility that elevates the town of Stratford and the region of Taranaki, to the people of New Zealand and around the world.

The Purpose

Transforming Stratford Park to be alive through experiences, events and activities that are underpinned with a critical green infrastructure and sustainable resources. The aim is to deliver an experience in such a way that locals and visitors are inspired and exhilarated by the unique welcome of Stratford Park, Te Maunga, the local community and its people. It is the intention that the community can develop a relationship with Stratford Park, and thrive from the exchanges between people and place, over the next 150 years.

“WITT is developing programmes that can be delivered at Stratford Park, supporting the activities and interests of the central Taranaki community.”

Daniel Fuemana

Director School Trade Training,
Primary and Creative Industries

Stratford Park Project - Steering Committee



Phil Macey - Acting Chair and Motorsport Representative



Ian McCaul - A&P



Paul Vanner - President A&P



Vicki Jagersma - A&P



Kim Sharpe - Speedway Rep



Chris Uhlenberg - Speedway Rep



Ross Soffe



Taneal Goddard - Secretary



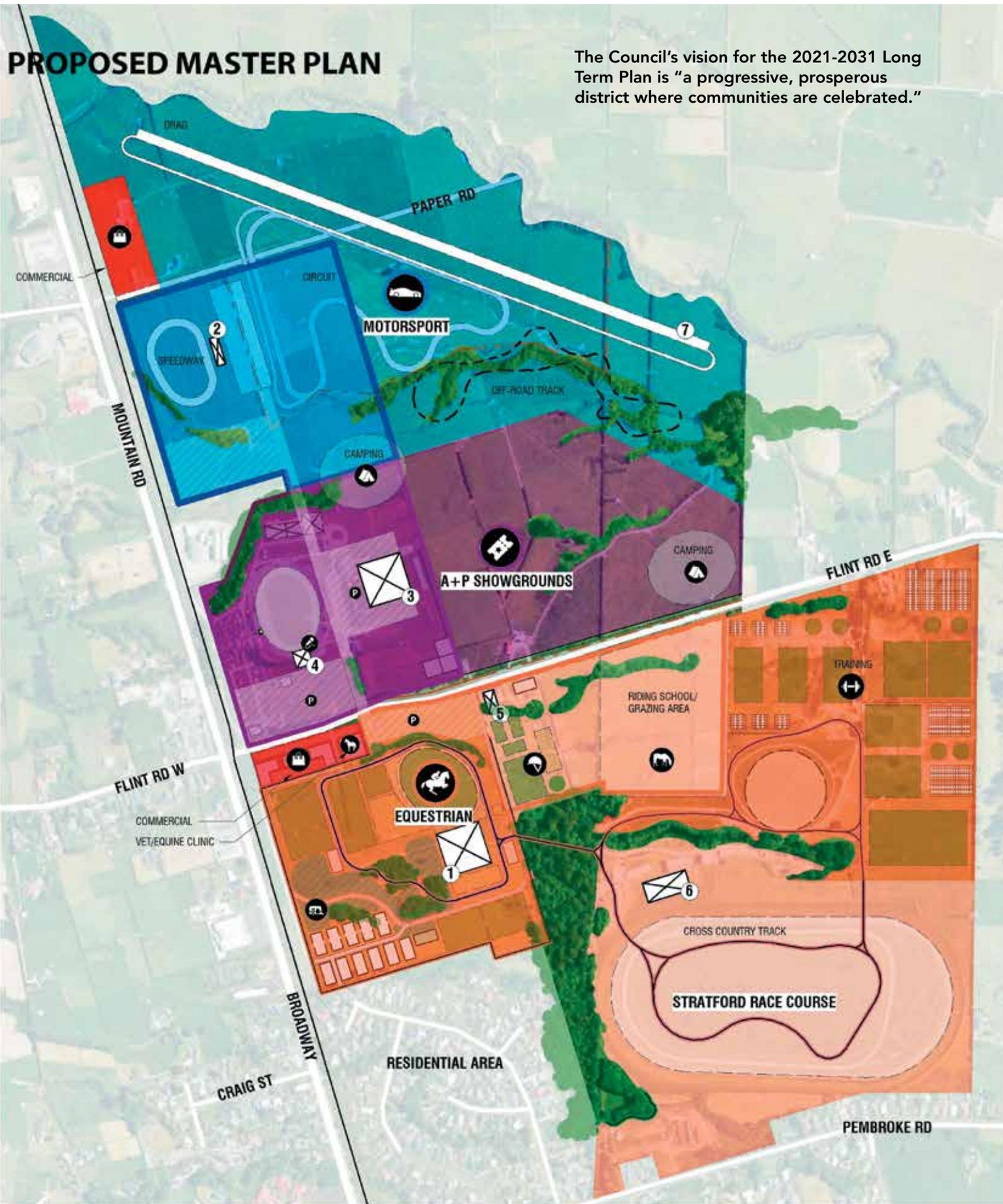
Donna Yeats - Marketing



Daniel Fuemana - Director School Trade Training, Primary and Creative Industries, WITT

PROPOSED MASTER PLAN

The Council's vision for the 2021-2031 Long Term Plan is "a progressive, prosperous district where communities are celebrated."



Energy in Transition Transport and Motorsport

WITT is establishing a Centre of Excellence of Energy and Engineering which could see exciting programmes delivered at Stratford.

The Stratford Park proposal contains an equestrian centre and an upgraded motorsport park incorporating a myriad of tracks which could be used for a range of motorsports; including liquid fuelled, hydrogen powered and battery electric vehicles.

While the park would attract visitors and boost the accommodation and hospitality sectors in the Stratford district, a wider programme around the park could make it a truly multi-generational investment opportunity.

WITT sees the opportunity to champion education and technology around new forms of energy in transport and sees the game-changer the Stratford Park project could be for decades to come. The Stratford Park project can encourage motorsports across all disciplines and all fuels, adding focus on promoting development, testing and racing with new forms of energy.

The Stratford Park Project would enable professional driver training for all forms of vehicles and energies.



Electric Formula-E racing cars have 250kW of power and will accelerate from 0-100 km/h in 2.8-seconds with a top speed of 280km/h.



BMW electric motorcycle concept 'Vision DC Roadster'.





The proposed Health Precinct at the TDHB

PROJECT MASTERPLAN - HEALTH PRECINCT



Growing our Health and Well-being Capability

WITT currently offers a range of nursing, health and wellness education programmes which are delivered at the main campus.

The growing requirement for skilled health workers, combined with the current redevelopment of Taranaki Base Hospital, presents a well-timed opportunity to develop a 'Health Precinct' and integrate vocational health education, research and delivery through working closely with healthcare providers around the maunga.

Investment in appropriate health training infrastructure will support student growth and staff growth in healthcare facilities, potentially increasing the range of health and wellness programmes in the future. It will also bring more health education providers into the region, extending the breadth and depth of the health workforce, and ultimately contribute to better health and well-being outcomes for our region.





PROJECT MASTERPLAN - CBD HUB



Te Aūtui - A learning and innovation hub enabling opportunity

WITT has a long term goal to establish a purpose built hub in the CBD.

As a precursor to that project, the School of Māori, Enterprise, Business and Technology (SMEBT) has identified an opportunity to develop a central site enabling curated delivery of papers and courses that will support the growth and development of local commercial talent, and post-graduate papers to appeal to those currently in work.

Our working name for the proposed innovation hub is Te Aūtui - The Cloak-pin, inspired by WITT's strategic vision: 'Korowai Mātauranga o Taranaki - the cloak of knowledge'.

SMEBT has identified a gap in the local market for quality part-time educational opportunities that are easily accessible for professional workers, and it is seeking to address this gap and attract a new cohort of learners.

Benefits of this project include strengthening relationships with the local business community and providing better access to education and opportunities for learners. More broadly, it supports national objectives including the reform of vocational education, economic growth and cultural wellbeing, supporting aspirations for all.

WITT believes collaborative relationships with the business community through the Taranaki Chamber of Commerce, district councils, Taranaki Regional Council, Nga Iwi o Taranaki, He Toronga Pakihi ki Taranaki (Māori Business Network of Taranaki), Venture Taranaki, and Ara Ake are essential to see exciting opportunities like a Hub be established.

WITT acknowledges these ideas are just the beginning of conversations to co-design learning and innovation hubs in partnership with all to lift enterprise and opportunity throughout Taranaki.

What the community says

"The Taranaki Chamber of Commerce strongly supports a transition to a low emissions economy. WITT is ideally placed to be a key player in the innovation ecosystem being planned for Taranaki."

Arun Chaudhri
CE - Taranaki Chamber



"Innovation hubs would help us modify the existing infrastructure as well as open the way for development of new ideas in new forms of energy."

Joanna Breare
Former Chair of Taranaki 2050 lead group



"An innovation hub would become an essential part of Taranaki's knowledge infrastructure, raising Taranaki's profile as a place of learning and retaining our young people and their skills within our region."

Dion Tuuta
CE - Te Atiawa Iwi



"This is a positive step forward. Bringing innovative thinkers together will accelerate our transition to a low emission future."

Cristiano Marantes
CE - Ara Ake



"Innovation and entrepreneurship are critical to our future. Venture Taranaki is working to "PowerUp" Taranaki's entrepreneurship and innovation ecosystem and innovation hubs would be a significant step forward."

Justine Gilliland
Former CE - Venture Taranaki



South Taranaki Business Park



The South Taranaki District Council recently commissioned an ‘Industrial Park Feasibility and Initial Business Case Study.’

As stated in the study, “South Taranaki is currently heavily reliant on agriculture and energy. Both of which are facing uncertainty in the medium to long term which could subsequently adversely affect the district’s manufacturing sector.”

The council commissioned the study because they saw a need for having industrial zoned land available, in the right place, to support economic development.

Economic Plans

Currently there are three economic development plans in the region. The Tapuae Roa Action Plan, the Taranaki 2050 Roadmap (in response to the Government’s stated goal of net zero emissions by 2050) and more recently, the Taranaki Covid-19 response plan.

Alongside these plans to generate economic recovery and opportunities, the tighter focus of the South Taranaki Study has confirmed the viability of developing a business park to enhance economic growth in the district.

The Future of Work

The Productivity Commission highlights the need for our workforce to be agile as we face the challenges, not only of increased automation, but the changes the Net Zero Act and carbon budgets will bring to our economy and employment. Increasingly full-time workers will need to engage in part-time study to keep in-step with these transitions.

In supporting a business park project, WITT’s contribution could be to bring higher levels of education as well as short courses focused on energy, enterprise, education and technology.

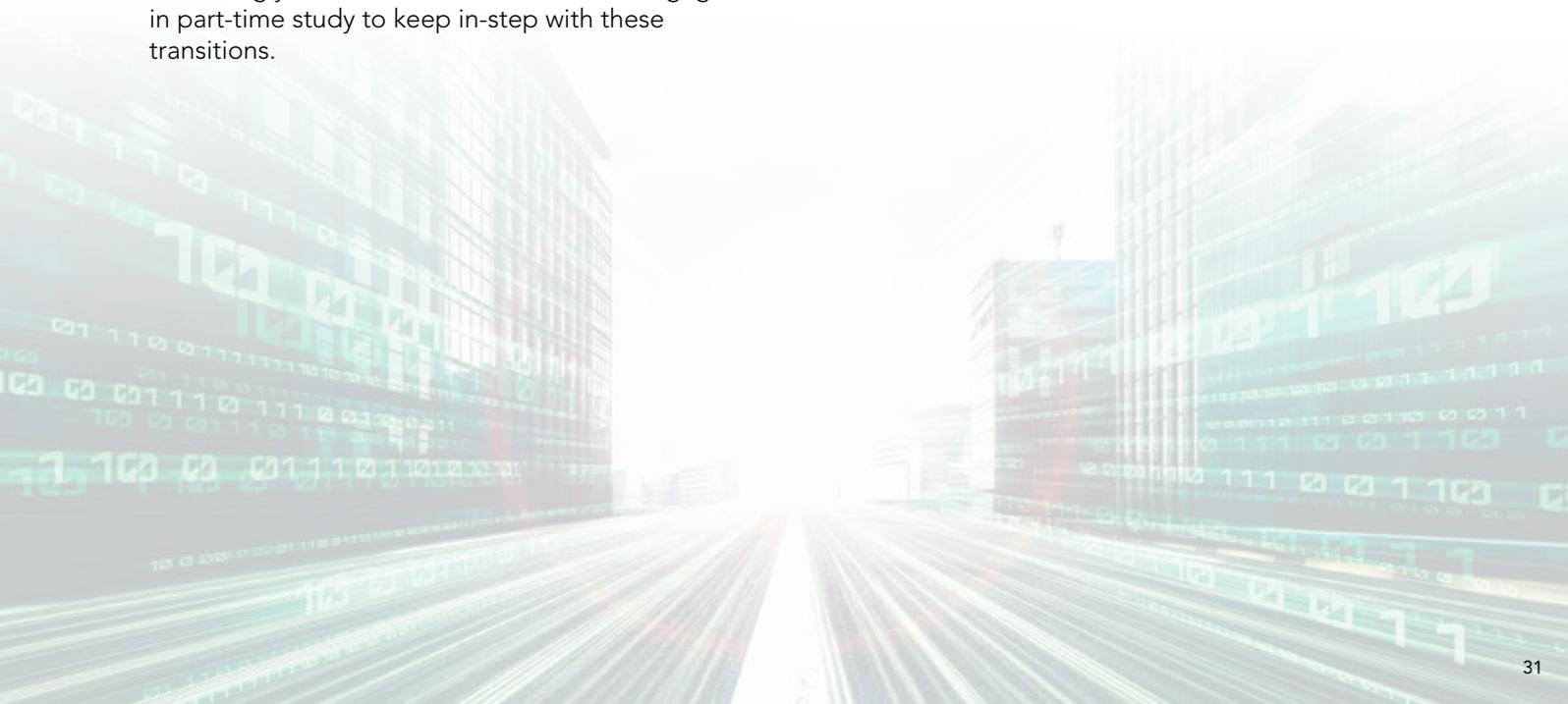
With the workplace as we know it, undergoing change, innovation and adaptation is an essential skill process that South Taranaki people will develop.

WITT can support this journey to ensure new ideas and ways of doing things are an important part of retraining and redeploying people in the workforce.

School of Māori Enterprise, Business and Technology

As South Taranaki develops a business park and alongside this, a South Taranaki Innovation Hub, this could link with North Taranaki’s Innovation Hub to support a region-wide economic transformation. WITT’s School of Māori Enterprise, Business and Technology could bring an exciting contribution towards a successful business.

The greatest resource we have is skilled and motivated people and WITT can be a supportive contributor to an enduring economic transformation in South Taranaki.





TARANAKI OPPORTUNITIES

Offshore Wind

The NZ Super Fund is investigating a potential one gigawatt offshore wind farm in the South Taranaki Bight.

The Government-owned pension fund is partnering with Danish energy infrastructure giant Copenhagen Infrastructure Partners (CIP) on a project they believe could be generating by the end of the decade – subject to two year’s feasibility work.

An initial 1GW development would represent over 11 per cent of New Zealand’s current electricity demand capacity and could power over 650,000 homes. The partners believe the project could later expand to 2GW, helping to meet strong projected growth in demand for electricity in New Zealand.

CIP and the NZ Super Fund are in the early stages of project feasibility evaluation, which includes wind resource measurement, designing detailed environmental impact assessments with the support of local communities and experts, and examining industry potential and training needs for the Taranaki region.

Transferable skills

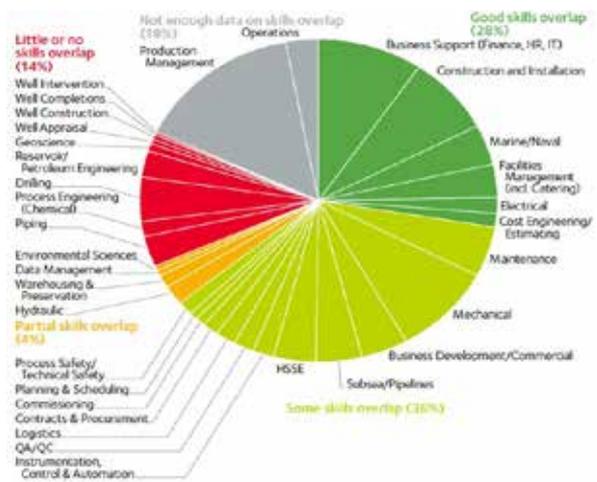
The pie-chart (right) prepared by the AusIndustry Cooperative Research Centre, shows that between the hydrocarbon sector and the offshore wind sector, there is a 28 percent good skills overlap, a 36 percent some skills overlap and a 36 percent partial, little or no skills overlap. This research tells us that more than 70 percent of those working in the oil and gas sector will need further retraining to enable them to work in the offshore wind sector.

Oil and gas companies in transition

One of the largest oil and gas companies in the world is Norway’s Equinor, 69 percent owned by the Norwegian government. This is the company, who with their engineering and offshore marine experience, designed and pioneered floating offshore wind turbines. It is a great example of a company that is embracing the energy transition.

Their 2021 sustainability report says: ‘In 2021, we made significant strategic progress and changed our organisation to accelerate our transition. By 2050, our ambition is to be a net-zero company, including emissions from the use of our products.’

Change is here and companies will be transitioning, as will their people. WITT is here to assist.



'Social Procurement' in Construction Projects

Social procurement is the great untapped opportunity for social and cultural impact, and bringing positive change beyond the initial project purpose.

Project Maunga: The hospital redevelopment project and Te Ara o Te Ata: The Mt Messenger bypass are both projects which enable the construction sector to recruit more young people across our region, giving them an opportunity to learn a skill, gain a qualification and start a career. Social procurement is an important investment into young people and the development of their skills in Taranaki.

Project Maunga and the Mt Messenger Bypass projects represent \$600 million being injected into the Taranaki Region.



118,500 construction workers needed by 2024

New Zealand's first long-term infrastructure strategy sets a vision for how New Zealand's infrastructure can lay a foundation for the people, places and businesses of the country to thrive for generations.

Te Waihangā Chief Executive Ross Copland says it identifies some of the most pressing issues New Zealand is facing, and the changes needed to overcome them.

Rautaki Hanganga o Aotearoa - New Zealand Infrastructure Strategy 2022-2052 is the culmination of two years' independent investigation, and incorporates feedback from more than 20,000 New Zealanders, over 700 consultation submissions, and meetings and workshops with stakeholders from all over New Zealand.

"Infrastructure is critical to our national objectives and wellbeing, whether that be the sustained effort needed to meet net zero carbon commitments, ramping up housing supply, easing congestion in our cities, or meeting the expectations for drinking water that is fresh and clean," Copland says.

Electricity generation capacity needs to increase by some 170% to meet our net zero carbon goals; while it will cost about \$90 billion to fix New Zealand's water networks. Some \$5 billion of local government infrastructure is vulnerable to sea level rise. These challenges come at a time when construction costs are rising 60% faster than prices elsewhere in the economy and we expect a shortfall of 118,500 construction workers in 2024," Copland says.

<https://www.tewaihangā.govt.nz/news/commission-news/new-zealand-first-infrastructure-strategy-sets-a-path-for-a-thriving-aotearoa/>



Artists impression of the main entrance foyer Project Maunga

TARANAKI OPPORTUNITIES

Project Maunga

Project Maunga, the Taranaki Base Hospital Redevelopment Project, is providing work-based-learning (WBL) opportunities for both students looking for opportunities to learn on the job and for those in employment who want to upskill their qualifications, and do it while they are working. It is a win-win opportunity for all involved, and WITT is at the heart of it, working with the Project Maunga project team, MSD and MBIE to create lasting opportunities for both employers and their employees.

WITT's focus on lifelong learning means it's never too late to upskill and keep learning. It will make a big difference in terms of the longevity of someone's career and their ability to flex when the workplace and industry changes

At least two days a week you'll see Katrina Mayo, WITT's lead for WBL, on site at Project Maunga. In her role, she can be a sounding-board, mentor and support to learners by getting the right information to them.

Katrina comes with a strong background in adult education, with six years being a member of the Careers NZ team based in the Whanganui / Manawatu region. She has worked for Skills NZ in industry training for the construction sector, so she comes with plenty of experience in a sector which is experiencing significant labour shortages. These skills are a real bonus as she works with the Project Maunga team to create opportunities for WITT

learners to be on-the-job. One thing Katrina is aware of is the disruption that transition can create as students go from secondary to tertiary and from there to the workplace. Having her as a sounding-board is a big help during those times of transition. Katrina is incredibly enthusiastic about the role and the potential she sees to positively affect people's lives. She wants to see WBL as a way to not only support people, but to support businesses. Project Maunga, and other infrastructure projects in Taranaki provide amazing opportunities for young people to learn skills, gain experience and confidence, and enter the workforce in a supported way.

WITT encourages all project managers and companies to look for opportunities to give young people a go. You could offer the first step in a successful and prosperous career for someone.



Responding to Technological Change - the Future of Work and Lifelong Learning

The Productivity Commission has completed its inquiry into technological change and the future of work, and presented its final report and recommendations to government.

What did the inquiry find?

Technology doesn't just replace jobs, it also creates them.

Technology has many effects on the labour market, some of which are positive for workers, the quality of work, and jobs. Predictions that technology will inevitably replace work are simplistic and out of step with historical experience.

There isn't much sign of looming technological disruption.

Faster technological progress would be evident in labour market and economic measures, such as productivity growth, occupational churn, and business start-up rates. But across the developed world, all of these measures are slowing or declining.

New Zealand needs more technology, not less.

Technological progress and adoption drives productivity and income growth. If we want higher incomes for ourselves and our children, New Zealand firms need to take up technology at a faster rate than has been the case in recent years.

New Zealand is well-placed for faster technology adoption in some respects, but not in others.

By international standards, adult New Zealanders are skilled and train at high levels. Our policy settings generally encourage openness to ideas, goods, services, investment and skills. And our labour market has historically done a good job of creating lots of jobs. On the other hand, core skill levels in our schools are dropping; high house prices make it hard for some workers to move to better jobs; and New Zealand's business environment lacks dynamism.

WITT is focused on lifelong learning to equip the people of Taranaki in the changing world of work.

New Zealand should build on its strengths and address its weaknesses.

The Commission recommends a number of policy changes to better prepare current and future New Zealanders for the future of work:

- Make the training system more flexible and accessible. Shorter courses, and better access to financial support, will make it easier for New Zealanders to keep their skills current and retrain.
- Improve and expand careers advice and employment support. More can be done to help people successfully navigate career and job change.
- Urgently address the performance of the school system. Schooling that leaves a significant share of New Zealanders with poor skills will leave them ill-prepared to succeed in the future.
- Update employment law to target harms, not platforms. 'Gig' work creates benefits for many people. Employment law should be updated to recognise how technology is changing some work and make it easier for contractors to gain benefits such as training, insurance and superannuation contributions.
- Explore options for better income smoothing. Some New Zealanders who lose their jobs currently face large falls in incomes and high financial stress.
- Update regulation to remove barriers to technology and promote worker mobility. Some New Zealand regulations need refreshing, including data access, competition policy, genetic modification controls and land use policies.

QualifyMe

Qualify Me is a specialist programme that recognises prior learning and work experience, accelerating the time it takes to gain a certificate, diploma or degree. Customised to meet the professional needs of the student, and designed to work alongside their job, it allows people to take the next step in their career without the need to leave their job.

A customised learning package will meet your specific professional need. Collaboration with other providers of vocational education will enable specialist knowledge to be incorporated into your learning programme.

Benefits for the employer:

- More highly skilled workforce
- Retention of good staff
- An investment in people
- Increased productivity
- Prepared for the future

Programmes in:

- Business and Management
- Construction
- Education
- Engineering
- Exercise and Sport
- Hospitality
- Mātauranga Māori

Benefits for the Learner:

- A quicker way to a new qualification
- Gain more skills
- Pay rise potential
- Improved chance of promotion
- Personal satisfaction of learning
- Ability to learn at your own speed
- Learning you can apply at your workplace
- Be assessed on real life work



Apply and choose when you start



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Taranaki he puna wai e kore e mimiti, ka koropupū tonu ka koropupū tonu.

Taranaki, the source of our water and giver of life to our people. The springs of Taranaki will never be diminished, they will continue to flow and provide sustenance to the people of Taranaki.



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