

PURO

Growing the future.

About me & Disclosures

Cultivation Director / Co-Founder - Puro New Zealand
Managing Director / Co-Founder - Indicated Technology
Manager - Stealth Garden Australia & Thailand
Churchill Fellow for Cannabis Agronomy





PRESENTATION OVERVIEW

SITE SELECTION

GERMINATION AND CLONING

IPDM: INTEGRATED PEST & DISEASE MANAGEMENT

FERTIGATION AND CROP MANAGEMENT

HARVEST PROCESSING AND PACKAGING

PHARMACEUTICAL ACCREDITATIONS

THE NEXT STEPS...

 PURO

Our kaupapa

Puro Culture

Puro is driven by a clear vision and strong, robust values that underpin all we do. Our culture and ethical business ethos has been built around tenacity, knowledge, passion and performance. We are focused on achieving excellence in everything we do, for our people, our community and our land. Sustainability and teamwork is a big part of that, and it's the reason we have taken our organic approach and are on a journey towards regenerative agriculture.

Puro's culture is summarised by our seven cultural pillars defined as 'ARTISTS' – an acronym that captures our values and ethics. It is who we are and what we stand for.

Puro is growing the future. We are pioneering an industry in Aotearoa. Kaitiakitanga, integrity and excellence are in our heart and at the core of everything we do.



ARTISTS

- *noun*: artist;
plural *noun*: artists

- a person skilled at a particular task or occupation



Achieve
We work hard, get results and always strive to improve.



Respect
We respect each other, our communities and our environment.



Tenacity
We innovate, adapt and never give up.



Integrity
We live our values everyday.



Sustainability
We value our people, our customers and our planet.



Teamwork
We support each other, celebrate wins and have fun.



Safety
We protect the safety of our people, our planet and our product.

Growing the Future. Pioneering an Industry.

Founded 2018, in Marlborough New Zealand

At Puro, we are helping to grow an entirely new industry for New Zealand.

Puro aims to bring New Zealand into the global medicinal cannabis market by growing high quality, organically produced cannabis for the creation of natural plant-based medicinal therapies.

We aim to set high standards for the cannabis industry in sustainability and quality, while developing state of the art processes and practices that support the success of the entire region.



Our Journey



2018
Puro founded



2019
Land secured



2019
\$4m raised



2020
Commercial licences granted



2020
Construction of research facility



2020
High-THC medical cannabis varieties planted at research facility



2020
New Zealand's largest drying facility constructed at Kēkerengū



2020
First commercial high-CBD medical cannabis planted in Kēkerengū



2021
New Zealand's first large-scale commercial cannabis harvest begins



2021
First Indoor THC and 1:1 THC:CBD Harvest



2021
New Breeding and Nursery Facilities Operational



2021
Puro gains organic status – Australasia's largest organic grower



2022
Landmark supply agreement announced with Helius Therapeutics



2022
Puro awarded \$13m Government Grant



2022
First export

Government Funding Grant

In April 2022 the Ministry for Primary Industries approved a grant for Puro for \$13million to accelerate and develop the organic medicinal cannabis industry. The \$32m programme runs until 2027, with the balance of the funding coming from Puro's revenue, cashflow and equity.

"Now is the perfect time to grow this high-value industry, as international demand for medicinal cannabis takes off while New Zealand is amid an export boom."

Damien O'Connor
Agriculture Minister





The Government investment will allow Puro to:

- Accelerate research and breeding programmes to commercialise IP
- Identify and publish information on organic cannabis cultivation
- Increase production and scale to meet demand from buyers
- Fast-track employment, skills and training opportunities
- Explore ways to reduce waste and become greener

Ultimately, it will provide New Zealand patients with greater access to high quality, locally grown and manufactured medicine and pave the way for international export success.

A landscape photograph showing a vast field of cannabis plants in the foreground, with a range of mountains in the background under a clear sky. The text is overlaid on the image.

Marlborough's long sunshine hours and high-UV rating make it the perfect place to grow medical cannabis.

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Waihopai Valley



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Operations Waihopai

Site Location: 41°34'45.8"S 173°44'54.2"E

Why Waihopai?

What do we do here?

- Year-round indoor grow operation
- Leading-edge facility design with individual grow rooms enabling a staggered approach to growing with individual rooms designed for cloning, vegetative and flowering
- Seed, flower and clone production
- Our buyers are the Pharmaceutical sector and medicine manufacturers in NZ, Australia and globally
- Resource consents have been approved to develop this site into the largest indoor medicinal cannabis facility in NZ



Our land

25 ha.

Kaikōura



Operations Kēkerengū

Site Location: 41°59'33.3"S 174°00'36.4"E

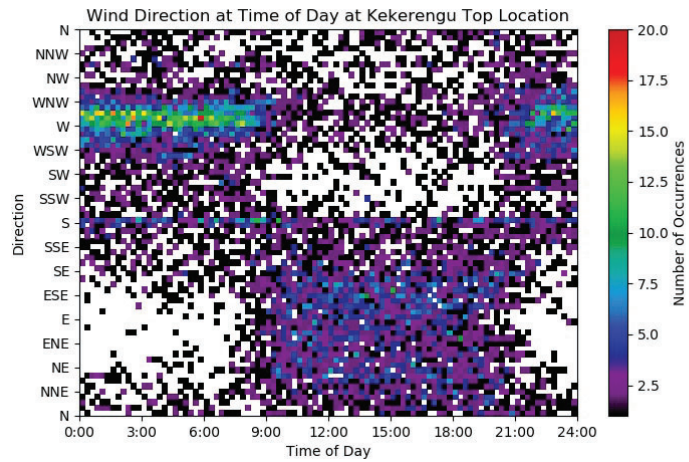
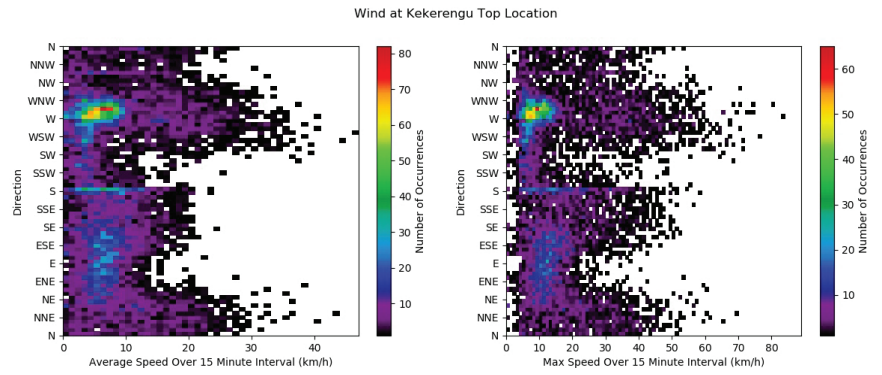
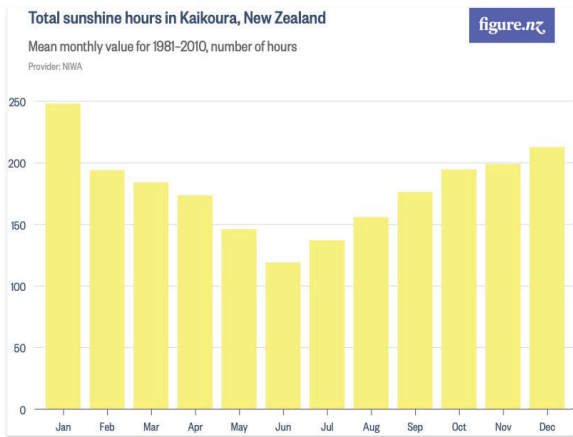
- Annual outdoor crop giving the ability to produce large volumes with a low cost of production
- A stunning elevated coastal site in Kēkerengū offering optimal climate and soil conditions
- Production is harvested, dried, packaged and sold as (1) trimmed or milled flower and (2) biomass flower (a high-value ingredient for extraction into oils and medicine). This is NZ's largest cannabis drying & packaging facility
- Our buyers are the Pharmaceutical sector and medicine manufacturers in NZ, Australia and globally



Operations Kēkerengū

Climate Analysis for Risk Mitigation:

- Wind analysis using advanced weather station, AI and data scientists.
- Prevailing strong NE and SE winds
- Sunlight and UV; Solar Gain at Kekerengu



A landscape photograph showing a vast vineyard in the foreground, with rows of grapevines stretching towards the horizon. The vines are supported by wooden posts. In the background, there are rolling hills and mountains under a clear sky with a few scattered clouds. The lighting suggests a late afternoon or early morning setting, with a warm, golden glow.

Puro is set to become 'the
Sauvignon Blanc' of
cannabis.

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Germination and Cloning

Organic Cloning – How and Why?

- Starting from the start – our nursery, seed providers and why we gutted a cherry shed – the foundation of Puro Premium Cultivar
- TISP – Phenotyping programme / CSPR – Commercial Seed Production Round
- Cloning – lessons from a body piercer...!?
- Our restrictions (organic cloning) – why does it need to be organic?
- Ethical, moral, sustainable and aligns with our values as Kaitiaki
- Our methodology
- Customised formula of organic inputs such as our willow bark extract, aloe, kelp and micro-organisms.
- Our infrastructure required for this incredible process.



Pure, green
+ sustainable



IPDM (Integrated Pest and Disease Management)


Lessons from other agricultural sectors

- Permaculture, Biodynamics, Protected Cropping and Broadacre farming
- Local knowledge is invaluable.
- Lessons from local suppliers, other crop species

Identify **your** most common pests and challenges - and how you manage them.

This will vary according to location, microclimate, and individual season.

- Cutworm/ Caterpillar – our enemy number 1 in Spring
- In wet long season – Fusarium, PM and botrytis will cause problems.
- In dry season – watch for mites, and release predators accordingly!
- Wind – when its good, its great! Take note of prevailing wind conditions

Thrips	Spider mites	Broad mite Rust mites	Whiteflies	Aphids	Hard scales	Mealybugs Soft scales	Caterpillars	Fungus gnats Shore flies
								
								
								
								
								

www.bugsforbugs.com.au



Fertigation and Crop Management

Fertigation: What do we apply? And why?

Defoliation, Trellising, Training and Crop Management

Soil Contaminants – understanding your potential fields, soils and ongoing change

Scouting – what are we looking for?



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Harvest, Process and Packaging

- Different methods of harvest – and how to automate these processes
- Labour requirements

Processing, trimming, drying, packaging, storage and dispatch

- Wet or dry trim – when and why do we trim?
- Drying – what is the best method for the desired commodity?
- Packaging – size does matter!
- Best industry packaging standards, for compliance and quality
- Storage and dispatch





Accreditations & Licences

BioGro Accredited - Kēkerengū



EU (CU) GACP Accredited



Ministry of Health Licence	Status	Duration / Renewal	Description
Cultivation activity (Medicinal Cannabis Agency)	Obtained for Kēkerengū Obtained for Waihopai	Annual renewal	Allows cultivation breeding research, the purchase, import and supply of cannabis seeds / plants and the commercial cultivation of cannabis to produce starting material for therapeutic use. All parties must be appropriately licensed.
Supply activity (Medicinal Cannabis Agency)	Obtained for Kēkerengū	Annual renewal	Allows supply and exporting of medicinal cannabis starting material to appropriately licensed parties.
Licence to export controlled drugs (Medicines Control)	Applied for prior to export	Application per consignment	Allows the export of up to 4 products per consignment. A licence to import must be provided by the destination country before a licence to export controlled drugs can be issued.

Environmental, social, and governance (ESG)

- Puro is organically accredited with a strong focus on sustainable and regenerative practices
- Puro's Kēkerengū site has been certified BioGro Organic – the only cannabis company in NZ or Australia to achieve this status
- Puro is meeting the WHO's strict guidelines on good agricultural and collection practices (GACP) for medicinal plants.
- Puro is committed to contributing towards the United Nations Sustainable Development Goals (SDGs)
- Puro is growing products that are pesticide-free, sustainably-produced, and traceable back to the source
- The products produced by Puro will be used to help improve quality of life and wellbeing for patients around the world



Walk with me,
in summer 2023



● Thank you.

puro.co.nz

[@TomForrestCF](https://www.instagram.com/TomForrestCF)

tom@puro.co.nz

