

# ***Naku te rourou nau te rourou, ka ora ai te iwi***

Acknowledging IP from both baskets: Mātauranga  
Māori and Western Science

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# Background

## Lincoln Agritech

- Independent R&D provider
- Offices in Lincoln and Hamilton
- Over 50 staff, including research scientists, engineers and software developers.
- 50 year history of agritech-based research
- 100% owned by Lincoln University



# Presentation outline

- What, who and why of Mātauranga Maori
- How and when: *Fungi as a resource*
- Trichoderma project
- IP from both baskets
- Learnings and questions





# Mātauranga Māori

- What? “cultural system of knowledge about everything that is important in the lives of the people” (Sir Hirini Moko Mead)
- Who? Intergenerational
- Why? - Knowledge that is shaped by the environment – people to thrive



# Māori use of fungi

- 12 fungi - Food, medicine, fire carrying, tohu, trade and in cultural practices
- How and when? Adaptation to Aotearoa





# Trichoderma

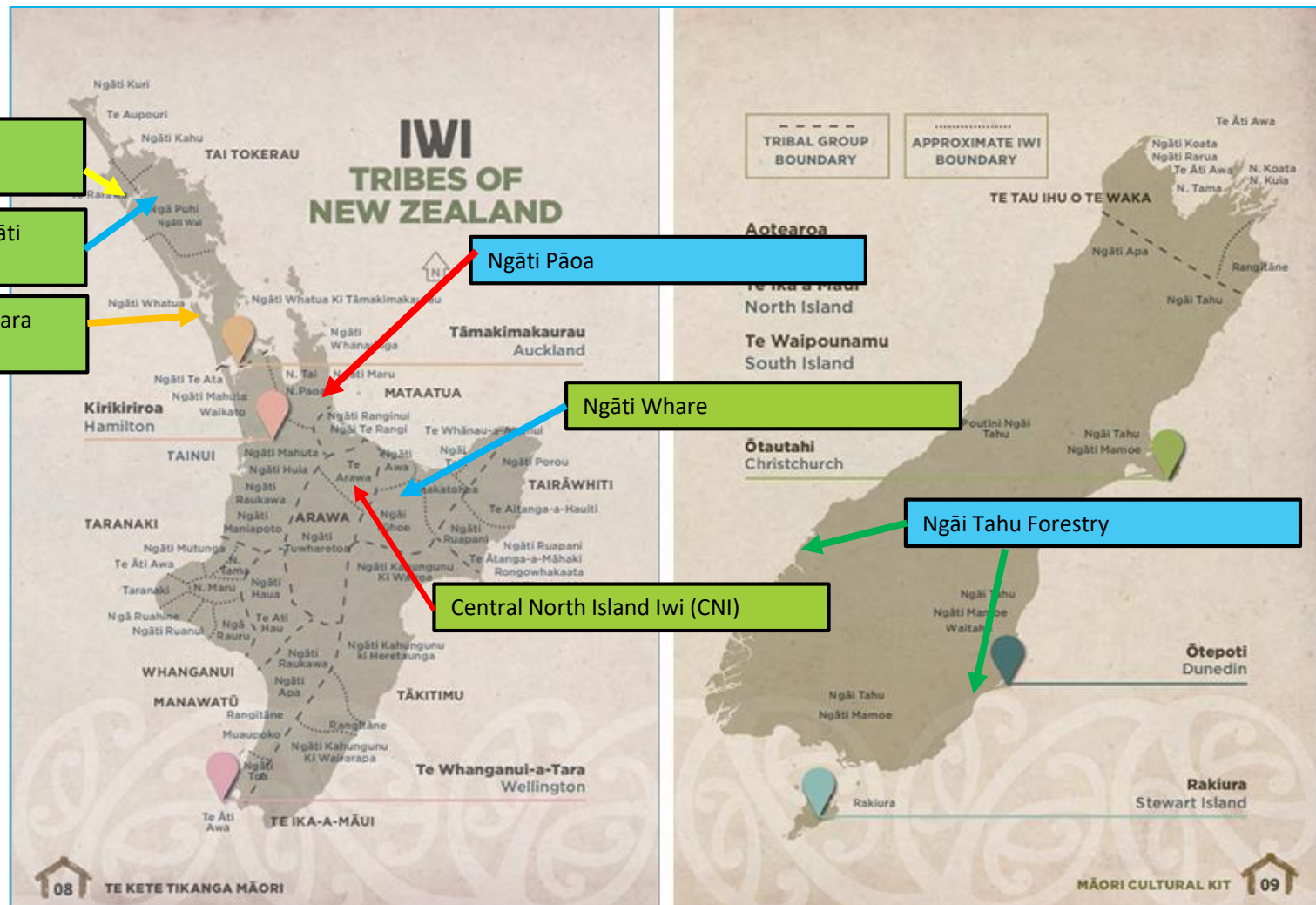
- Over 200 recognised species - 12 indigenous
- Plant growth promoters
- Biopesticides for control of plant diseases
- Nitrogen fixation through bacterial associations?



# Sharing of Intellectual Property

- Acknowledge IP from Mātauranga Māori and western science
- Māori land owners - IP over the organism
- Lincoln Agritech - IP of creating novel symbionts







# Minginui Nursery

## Biodiscovery Unit

- Minginui Nursery in partnership with Scion
- \$5.8 million contract - one million trees a year from 2020
- Key to Vision Mātauranga approach to establish a Biodiscovery unit



# Biodiscovery Unit

## Nursery issues

- To build bioinoculant capability
- Basic lab set up
- Staff training in collecting, storing, producing, inoculating and *Trichoderma* trials
- Mātauranga





# Community

## Te Kura Toitu o Te Whaiti-nui-a-Toi

- Developing community relationships
- Lab available for kura/correspondence
- Develop a programme of reseach in the mara kai
- “seeing the unseen”





# *Naku te rourou nau te rourou, ka ora ai te iwi*

## Learnings

- Possible to share IP of genetic resources
- Contracts
- Signing Nagoya Protocol or national policy framework
- Other projects
- Kaitiakitanga vs ownership



# Questions?



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