Outcome Logic Model for Whai Hua PGP Programme (January 2014)

Long term outcomes for New Zealand 2021+

Medium term outcomes for sector

2016 - 2020

Short term outcomes for PGP partners

2015

Activities & Outputs

2013 - 2015

Enablers & Inputs

Increased exports and economic growth (eg, GDP)

NZ internationally competitive in global market

Enhanced international reputation

Value of resources unlocked/ maximised, within environmental limits.



Increased profitability and resilience for dairy industry

Increased volume & value-add of dairy products .

More sustainable use of resources – dairy farmers have additional options to comply with environmental regulations, and remain economically viable.

Growth in markets & market share for dairy health food products.

Post-PGP Commercialisation Phase for Whai Hua Products:

Whai Hua partners work with their in-market (Asia) customers to develop consumer health products using Products A and B as ingredients.

Whai Hua partners up-scale their capability and product supply in NZ.

Whai Hua & new market partners market and sell Whai Hua products A and B as ingredients in Asian and NZ health products/markets.

If PGP programme is successful ...



Whai Hua has successfully developed two new 'value-add' dairy health products ready for commercial development and marketing.

Products A and B are developed and capable of being produced.

Evidence of product function in supporting immunity in humans is established.

PGP partners have capability and confidence to produce consistently high quality products.

Miraka & WMI have improved their competitive potential as diversified Māori agribusinesses.

Market knowledge is increased & likely in-market partners are identified.

PGP delivers an accelerated Research & Development (R&D) and market development programme:

3. Processing and production of Products A and B

AgResearch and other contractors develop production & processing specifications for A & B products, develop processing protocol and product samples for market engagement.

1. Product A

AgResearch -

- Tests/ proves the functionality/health benefits of product A, publishes results in international peer reviewed journals
- Optimises selection of cows with naturally high-occurring product A – produce best practice manual
- 3. Establishes nucleus cow herd (min 500) with desirable traits and produces product A.

2. Product B:

AgResearch -

- Develops a multi-antigen vaccine, to boost levels of product B in cows
- 2. Tests functionality, health benefits and safety of vaccine
- Gains ACVM registration, and produces product B.

4. Market research

Miraka & contractors -

- Research market channels & opportunities
- Engage with 4 6
 potential in-market
 customers
- Produce Marketing Plans for Asia & NZ

Boost confidence, potential bio tech R&D; cross-over knowledge, networks, skills growth & capability benefits.

Additional

benefits

for the sector and

New Zealand

Māori and sector

inspiration from/

emulation of Whai

Hua's post-farmgate investment in new

technologies,

collaborative

ventures, & a value

chain mindset

(eg, consistent with FOMA Māori Business

Growth Strategy).

Potential development

and commercialisation

of further value-add products.

Expanded supply

opportunities through

shared IP (eg licensing

of bull semen) &

genetic selection

programme.

Government & private coinvestment in primary industry innovation activity.

Build on existing research & knowledge - WMI's 8 years' R&D, AgResearch's patented research and related Japanese R&D.

Build on success of Miraka's vertically integrated business, WMI farm suppliers, & joint venture partnership with Kanematsu for sales & marketing expertise/ networks in target markets.

Problems & Opportunities

Small scale Māori agribusinesses face pressure from competition (one dominating processor) in the dairy sector, and increased environmental regulation.

Opportunity to create 'point of difference' competitive edge by developing novel, value-add dairy products and meeting increased consumer demands/ willingness to pay premium for safe, healthy foods.

Lack of: capital & capability for accelerated development, scientific efficacy to back product claims, in-market/ export connections, and Māori experience in diversified food value chains.