Outcome Logic for Ballance Clearview PGP Programme 2011 - 2018 version 22 August 2014

Long term outcomes

2025 -

Transformation of the New Zealand pastoral farming sector by reducing its environmental footprint and enhancing profitability

Pastoral farming makes an increased, sustainable contribution to New Zealand's primary sector economic growth

Medium term outcomes

2021 – 2024

Reduced adverse environmental impacts on farms from use of fertiliser

Farmers have additional options to comply with environmental regulations while remaining economically viable

Increased profitability for farmers from increased nutrient use efficiency

Increasing uptake of more efficient nutrient products and services in pastoral farming sector

Short term outcomes

2015 - 2020

Early adoption of new and improved nutrient products and services by farmers

Evidence of efficiencies in fertiliser use from new and improved nutrient products and services

Evidence of environmental benefits from new and improved nutrient products and services

Activities & Outputs

2011 – 2018

More efficient nutrient products and services available enabling fertiliser cost savings and/or improved pasture productivity

New nutrient products and services available with proven efficacy to reduce nutrient leaching to water ways and losses to the atmosphere

An effective best practice extension programme (with trained/certified nutrient advisors) accelerating the uptake and effectiveness of new nutrient products and services

A farm benchmarking system enabling monitoring of nutrient benefits of the programme

Improved Nutrient Products and Management:

1. Test a range of new product alternatives to reduce N and P loss to the waterways and air and improve its use efficiency
2. Develop decision support tools to optimise nutrient placement and effectiveness
3. Develop new variable application technology to improve nutrient application efficiency
4. Demonstrate products with proven efficacy, safety and commercial prospects

Biological Product development:

1. Test a range of potential biological fertilisers and pesticide products to improve plant growth
2. Develop two bio fertiliser products ready for market use
3. Develop two bio pesticide products ready for market use
4. Demonstrate products with proven efficacy, safety and commercial prospects

Extension & Capability Building:

1. Develop a best practice extension strategy and implementation plan
2. Recruit and train staff with the right mix of skill sets
3. Collaborate with other nutrient providers, PGP programmes and local government
4. Knowledge management

Enablers & Inputs

Government and private co-investment in primary industry innovation activity

Accelerated research into new nutrient alternatives and management processes, which reduce farm system losses to the environment and improve efficiency of fertiliser use

Build capability to deliver an effective extension service which accelerates the rate of adoption by farmers of new nutrient products and services

Problems & Opportunities

Adverse environmental impacts from nutrient losses from farms

Increasing regulation of nutrient management on farms may affect viability of some farms

Fertiliser costs increasing

Potential for productivity increases and costs savings from increased nutrient efficiency

Changing needs, knowledge and skill sets required for nutrient management advice

Demand from consumers and farmers for alternatives to chemical fertilisers and pesticides

Additional benefits
for the sector and New Zealand

Enhanced international reputation for environmental excellence in farming

Application of improved nutrient management solutions in non-pastoral farming sectors

Enabling broader adoption of integrated bio-pesticide management to non-pastoral farming

Catalyst to further investment in new biological R &D

New capability and jobs created in nutrient science and management

Models good practice extension methods for emulation within the primary sector