## Transforming the Dairy Value Chain PGP Delivering now and for the future...

November 1, 2016

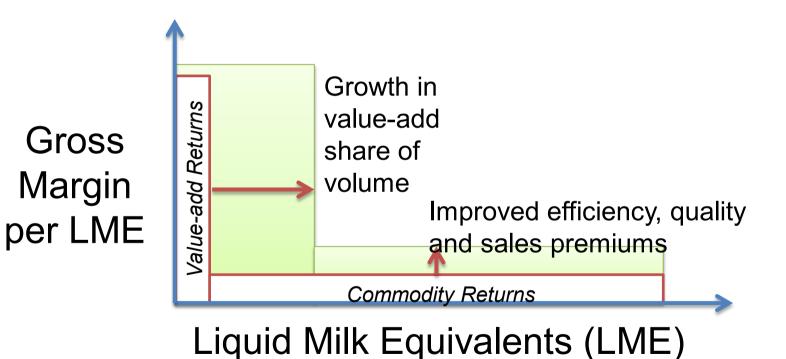


## Three key challenges . . .





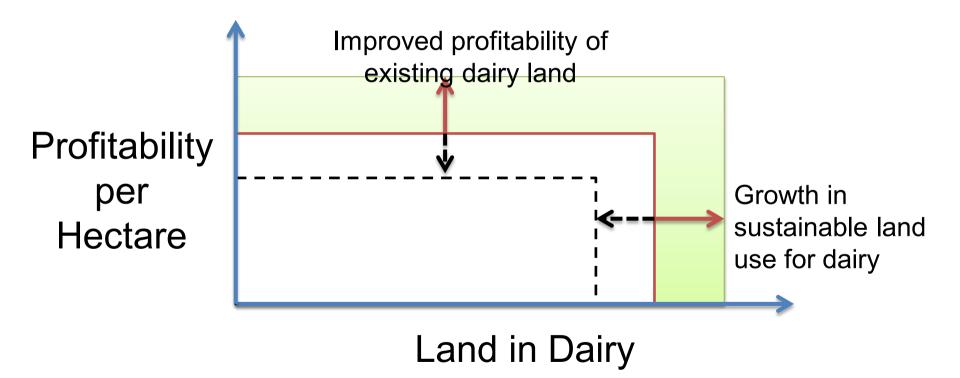
# **Post-farm Impacts**



# **Sustainability**



# **On Farm Impacts**



# **Building capability**

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#### Transforming the Dairy Value Chain PGP



# On sustainability . . .



#### IrrigationNZ 22 Accredited



Nutrient Management Adviser Certification Programme

**117 certified** 



#### certified





DairyNZ 252 certified Dairy Farm Systems People Management In progress



96% Waterways on NZ farms fenced off

> Farm spend over past 5 years to protect environment

billion

3-5 years

Path to Good Management Practice (10-15 without PGP) <u>Slashed</u>

Significant farmer noncompliance from 15% to 5.8%



Value to farms each year of better

nutrient/effluent management

# On the economics . . .









<u>\$36b</u>

Global pizza market **Pizzas topped with** Fonterra mozzarella each year, including half of all pizzas in China

**300m** 

<u>\$72m</u>

Development of Clandeboye on back of PGP innovation

<u>6 hours '</u>

Time to produce Fonterra mozz – from traditional three months







# On building capability. .





People given mental health training

9000+

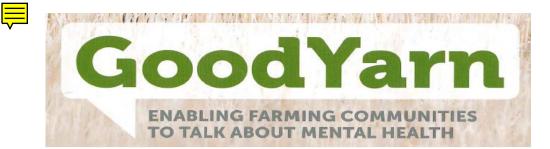
Students engaged in ag research

60

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Young people introduced to Ag careers through TDVC initiatives

**3000** Farmers at Health PitStops





#### ~1,000 rural professionals and farmers trained 14 organisations licenced



Australia and New Zealand Mental Health Services Conference Best Mental Health Promotion/Illness Prevention



#### The Australian and New Zealand Mental Health Awards 2016

#### GoodYarn

WellSouth Primary Health Network Dunedin, New Zealand

Has been awarded the



Mental Health Promotion or Mental Illness Prevention

In recognition of the achievement of excellence, innovation and best practice in mental health services

Authorised by Danban

Kern Man

Lynnette Dunbar Manager

Kevin Allan Mental Health Commissioner Office of the Health and Disability Commissions

TheMHS Learning Network Inc. ported by the Australian Government and the New Zealand Government

## Transforming the Dairy Value Chain PGP

# **Delivering for the future . . . It's about people**



#### Helen Thoday: Animal welfare and husbandry team developer







Nick Tait and Logan Bowler: Environment extension specialists

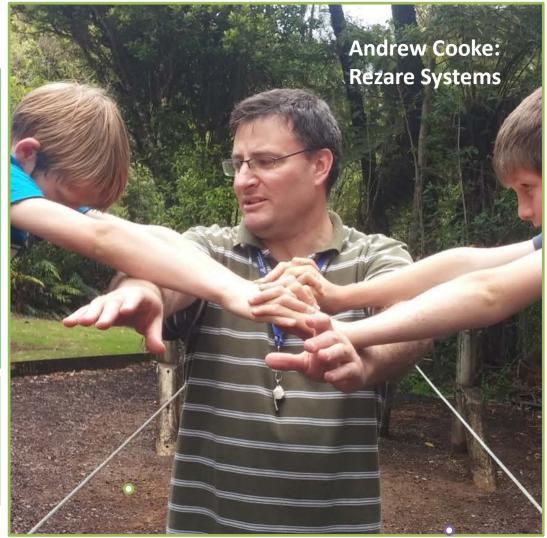








**Callum Eastwood and Dana Carver: DNZ** 





#### Aaron Fanning: Research Scientist, Fonterra





Sunny George Gwanpua, Zespri, and Graeme Gillies, Fonterra

#### WE'RE WORKING ON THE VALUE CHAIN, GANG



120.000+ \$15M Genotyped animals Value to industry every in LIC database year of promoting good genes and removing **Bad ones** 

MANAGING BETTER RETURNS Part of the PGP capability drive is about improving on-farm management and advice. Research shows this can be worth a lot of money to the industry

> \$1000 Potential return per hectare for farmers who

> > MILLION

LITRES

Extra mik put

human

into value ad ded

go from average to excellent management

Growthin prolit

for consumer!

food service

Fonterra is putting more and more milk into higher return, value-added products and the benefits are showing



191% & 90% Increases in prolit from China and Oceania

NUMBER OF FARM

PLANS DELVERED

TO IMPROVE FARM

Trainers building farm

staffanimal husbandry

MANAGEMENT

100 +

dálls nation wide

and keeping them safe, happy and THROUGH TOVC PGP producing 3000 60 800+ Students whose spert onmental Farmers at Rural professionals researchis healthand well-Health PR Rops trained inmental supported by PGP being initiatives health awar eners AND A HEALTHY DAIRYING REGIONS PLANET TOO WITH TAILORED The programme is helping farmers RIPARIAN PLANTING grow their production while limiting GUIDELINES the impact on the environment 8600 50% 5.8% Nutrient budgets Significant non-compliance Cotfied attight Fertiliser industry for dairy diluent discharges processed management certilied 05% of industry) advisors - lowest on record

NEW PRODUCTS AND POSSIBILITIES The PGP investment has enabled the creation and development of exoting new products that are making money for the dairy industry Just one of those au cess diories is Fonterra's mozzaella

PRODUCTIVE:

HEALTHY PEOPLE

it is also about building the numbers

and talent-base in our dairy workforce,



HOW LONG IT TAKES TO MAKETHE NEW, NATURAL INDIVIDUAL QUICK FROZEN MOZZARELLA

THREE MONTHS Howlong it takes for thetraditional product

CHILDREN INTRODUCED

\$100 M

Annual cost to

and stress

industry of fatigue

CAREER POSSIBILITIES

TO AGRICULTURE



3M eachyearto

\$72M Mik linger prints Expansion to Fonterra's Clandeboye site on back measure quality of product advances

300 M Pizzast opped with the new mozzarella each year