The dairy industry is searching for the 'sweet spot' where cutting-edge science meets commercial vision, writes **Rob Mitchell**.

ntroduction of refrigerated hipping more than 130 years ago and New Zealand's first bold steps to the global marketplace. try is undergoing a formation that rivals the

moving our nation from a respected global trader in bulk milk and powders to a world leader in targeted dairy products, ingredients and high-value foods, beverages and infant formula.

And there's plenty of value to be had – for

company and country.

Despite a tough financial year, Fonterra, the nation's largest business, raised its net profit by 183 per cent in its most recent annual result. Fuelling that success were extraordinary jumps in its consumer and food service (216 per cent) and ingredients (43 per cent) businesses

As Fonterra's acting manager, bal brands and nutrition, Rene doncker, points out, that kind accelerated change doesn't just It is part of a collective and Fonterra, Synia...,
among others.
These are unprecedented partnerships to accelerate thought and deed towards realising the government's huge challenge of doubling primary exports by 2025, while maintaining New Zealand's strong pastoral identity and limiting the impact on the

And change we must. New
Zealand is still a force in global
dairying but other nations have
made great strides and we remain
a David among global corporate
Goliaths such as Nestle, Danone
and Unilever.

Just as Fonterra has harnessed
the hard work and momentum of
many in its world-leading cooperative, this "collective effort"
has involved vital partnerships
between government and industry
- farmers joining forces with

All the work we do is aimed at lifting our industry's ability to deliver regional and national economic gains at a faster pace.
DR TIM MACKLE

DairyNZ chief executive Tim Mackle says his organisation's work with MPI, Fonterra and others, as part of the Transforming the Dairy Value Chain Primary Growth Partnership, is a key plank in a campaign to drive change and reach the programme goal of adding at least \$2.7 billion each year to the national economy by

"Transformation is all about innovation – and that needs to happen behind the farm gate as well as in our products if we are to boost our export competitiveness. For

significantly improved on-farm nutrient and effluent management. All the work we do is aimed at lifting our industry's ability to deliver regional and national

scientists, product developers and salespeople; the Ministry for Primary Industries working with DairyNZ and commercial partners Fonterra, Synlait, LIC and Zespri,

economic gains at a faster pace," says Mackle.
This \$170 million, seven-year PGP is one of 21 the Government is involved in.
The revolution taking place from farm gate to factory floor is also harnessing and transforming the minds of some of this country's best and brightest, with dozens of

People like Auckland's Mel Hayr, who is studying animal breeding and genetics at Iowa State University in the US.
Her research is helping to increase the accuracy of selecting bulls for mating, a field where just a tiny improvement can mean millions of dollars to the dairy industry and economy.

"It's very exciting to be part of

the group exploring this wealth of data and finding ways to use it that will benefit New Zealand and advance our scientific knowledge,"

Cameron Mitchell is part of a team at the University of Auckland studying the impact of dairy products on muscle metabolism. Their work could lead to new foods and beverages



scientist, the government official. Benefits include world-leading PGP-funded research that has enabled the creation of a mozzarella cheese that can be ready in hours rather than weeks, with \$72 million spent on new plant so far and dozens of jobs created in a global market worth \$36 billion. The award-winning milk-

Together, they are all making a difference - the farmer, the

for a growing

premium-value produc-

supporting healthy lifestyles.

They are just a small part of a dynamic, overarching campaign of enterprise and innovation. On farms around the country, PGP-funded science and smart thinking are advancing our farmers' capabilities and capacity for change, driving massive improvement in management of not only nutrients and effluent, but also people, pasture, stock and environmental impacts.

DairyNZ, LIC and others are supporting projects to transform

attitudes towards and use of technology and data, while also investing in programmes

highlighting the path to healthier farms, farmers and

animals.

fingerprinting innovation has helped strengthen New Zealand's food safety and quality reputation abroad, especially in countries with variable supply chains and infrastructure. And there is much, much more

to come ... the revolution is underway and ongoing.

■ Rob Mitchell is communications manager of the Transforming the Dairy Value PGP.