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# Welcome - Simon Till **Director Capital Markets**

## Investor Day purpose

Ingredients – the engine of Fonterra

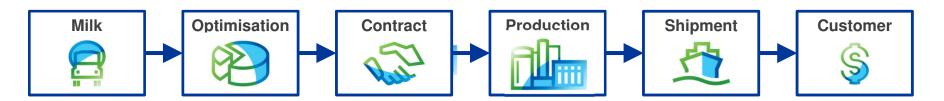


- Value creation framework
  - The business
    - Full value chain, optimisation and product mix
  - Quality of earnings
    - Regulated return and value-add, key drivers
- Strategy
  - Current: developing optionality, higher sustainable earnings
  - Future: decision-framework, global market trends



## Ingredients value chain





Collect milk from over 10,000 supplier shareholder farms Optimise
product mix for
20 billion litres
of milk to
maximise value

Find demand for over 30 product groups through our global NZMP sales force Lowest cost and highest quality production at over 30 sites Deliver
2.7 million MT
to over 140
countries via
global supply
chain

Supply high value products and solutions to hundreds of customers

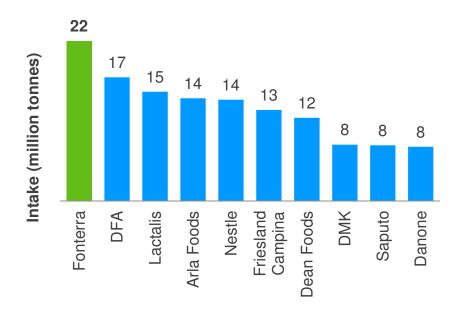


# Ingredients Value Creation Lukas Paravicini **CFO**

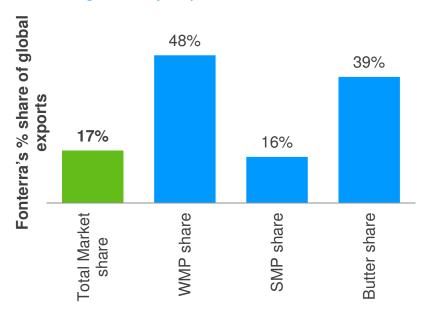
## Global scale and leadership

## Global sales force accessing 140+ countries

#### World's largest milk processor<sup>1</sup>



#### World's largest dairy exporter<sup>2</sup>



**Dairy for life** 

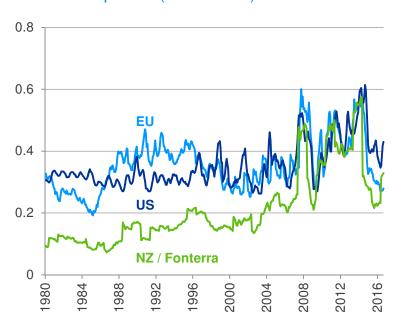
- 1. Source: IFCN 2015. DFA collects 28.1 million tonnes but processes an estimated 17.1 million tonnes. 11 million tonnes sold to other processors.
- 2. Source: Fonterra, Global Trade Information Services. Note: Excludes intra-European trade, information for calendar year 2015.

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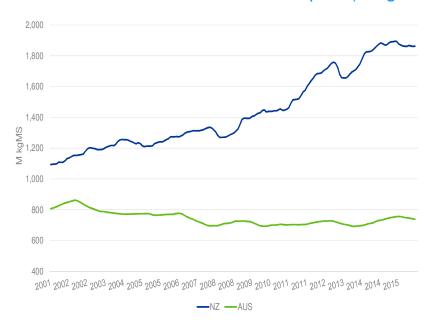
# Fonterra has increased the value of New Zealand milk and encouraged volumes to grow



#### Global milk prices (USD / litre)



#### New Zealand versus Australian milk pool (m kgMS)



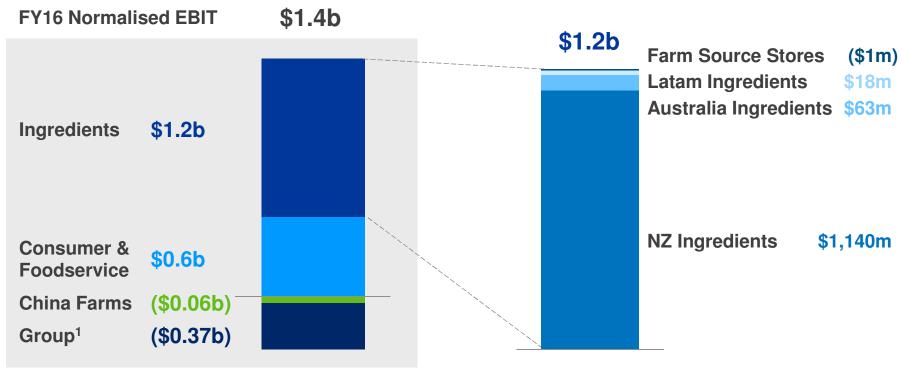
Note: All prices are adjusted to a milk composition of 3.5% protein and 4.2% fat and for spot exchange rates

Source: DairyNZ (NZ to May 2014); Fonterra announced payout (milk price and dividend) (NZ from June 2014); USDA; European Milk Market Observatory (Netherlands milk price)

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# Ingredients business is two-thirds of Fonterra's earnings



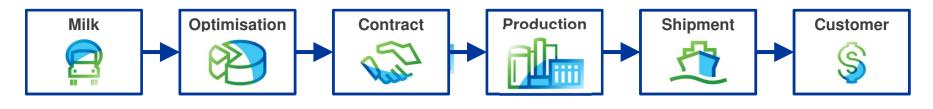


1. Unallocated costs and eliminations Note: Total Ingredients EBIT includes (\$16m) in eliminations and other EBIT

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## Value created at each stage





- · Collect all milk
- Capture right to earn regulated return
- Set optimal 18month plan
- Create maximum value from all product streams
- Sell to plan
- Generate demand and premiums for spec, supply, terms, etc.
- Produce to plan and contracted sales
- Minimise cost and maximise quality
- Store and ship
- In-market storage for greater flexibility
- Payment on competitive terms
- Create valuein-use for customers



 Creating value through flexibility between products, assets and customers including financial derivatives

# NZ Ingredients earnings significantly exceed Milk Price Model (MPM) benchmark





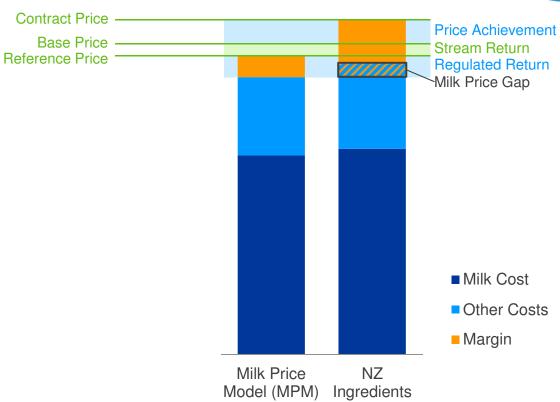


# Important definitions for New Zealand Ingredients



Prices	
Reference Price	Weighted average price of standard specification RCPs on GDT and Spot
Contract Price	Actual realised selling price of Fonterra product
Base Price	Market-referenced benchmark used internally by Fonterra (GDT referenced)

Earnings			
Regulated Return	Allowed return on capital per the MPM		
Price Achievement	Price achieved over and above benchmark Base Prices		
Stream Return	Differential between MPM GM and GM on benchmark Base Prices		
Milk Price Gap	Cost differential between Fonterra actuals and MPM		

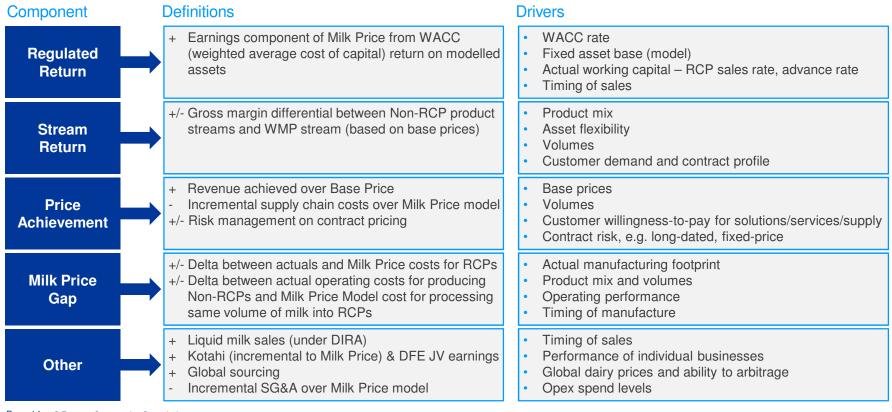


Note: RCP = Reference Commodity Product (WMP, SMP, Butter, AMF, BMP)
Non-RCP = All other Ingredients products (eg. Cheese, Proteins, Specialty, Nutritionals)

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# Regulated Return and Price Achievement and most important earnings buckets



FY16 New Zealand Ingredients earnings (\$m)



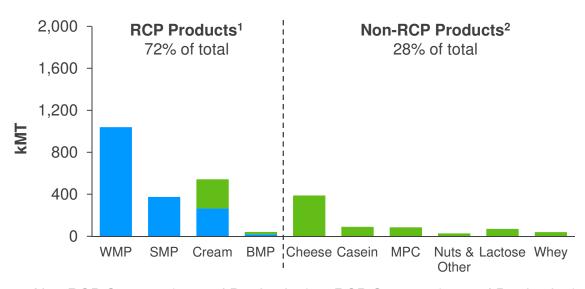
Note: Regulated Return is that earned in the FY (based on actual sales) rather than total outlined in the Milk Price model for the season (a different time period)

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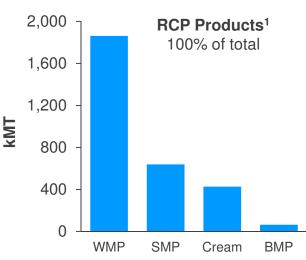
# RCP products make up the bulk of our volume Non-RCP products the bulk of our value



In FY16, **NZ Ingredients** manufactured 2.7m MT 72% were RCP products



In FY16, **Milk Price Model** production was 3m MT



■ Non RCP Streams (37% of Production) ■ RCP Streams (63% of Production)

1. RCP = Reference Commodity Product (WMP, SMP, Cream (Butter & AMF), BMP) – only products manufactured in the Milk Price Model
2. Non-RCP = All other Ingredients products (eg. Cheese, Proteins, Specialty, Nutritionals)
Note: Manufacture of Non-RCP product streams (eg. Casein) produces RCP by-products (eg. Cream) – these volumes are not included in the Milk Price Model
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# Value of Non-RCP comes from higher selling prices relative to RCP



	FY16	Revenue	Milk Cost Other COGS		Other COGS Gro		Gross Margin	ross Margin
	NZ Ingredier	nts 1,583	m kgMS					
	per kgMS:	\$7.49	\$3.90	-	\$2.49	=	\$1.10	
erra-	Non-RCP 423m kgMS							
Fonterra	per kgMS:	\$8.46	\$4.04		\$2.13		\$2.30	
	RCP	1,083	m kgMS					
	per kgMS:	\$5.81	\$3.85	_	\$1.38	=	\$0.59	
Milk Price Model 1,566m kgMS								
	per kgMS:	\$5.83	\$3.90	-	\$1.29	=	\$0.64	

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## Strong value creation strategy in place



#### Our Vision and Objectives

#### **Cash Generators**

'Must do'
Source of cash to finance growth

#### **CREATE OPTIONALITY**

- Improve asset flexibility to achieve a 50% reduction in Non-RCP force-make and improve returns from Non-RCP streams
- Increase options in our contract book through more flexible contracting and channels to market
- Grow and leverage financial contracts

#### **Growth Generators**

'Can do' Source of future cash

#### REBALANCE PORTFOLIO

- Rebalance current portfolio to improve earnings stability and enable growth
- Invest in mozzarella, UHT (NZ sourced and recombined), speciality and nutritionals
- Reduce allocations to natural cheese and casein

#### **New Business Generators**

'Want to do'
Mould-breaking investment opportunities

#### **MULTI-HUBS**

- Align demand with most attractive milk pools
- Accelerate investment in whey from Europe
- Build nutritionals/cheese/whey COE in Australia
- Invest in Chilean milk hub to service expansion in Brazil
- Align China Farms to in-market processing facilities

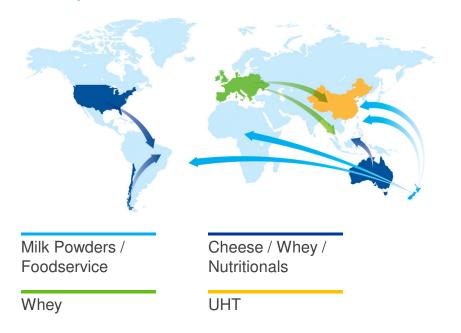
Organisational Capabilities:
Org design will need to support new approach

Capital Structure:
Global Co-op Model





#### **Primary investment**

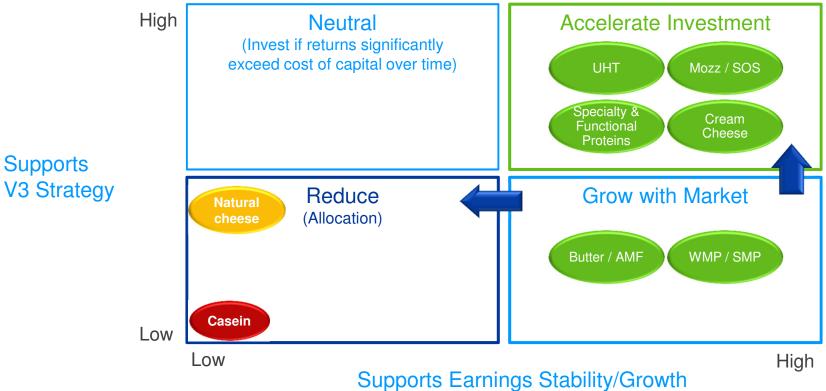


#### Complementing our New Zealand Milk Pool

- Enable growth of Ingredients business to support customer demand (All)
- Secure access for our NZ milk exports (China and Sri Lanka)
- De-risk supply for ingredients customers (Australia and Europe)
- Optimise our ingredients manufacturing footprint (Europe and US)
- Enable our development of higher margin consumer brands and foodservice opportunities (Chile, China and Australia)

# We are rebalancing our New Zealand asset portfolio through recent and future investments

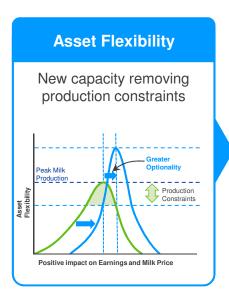




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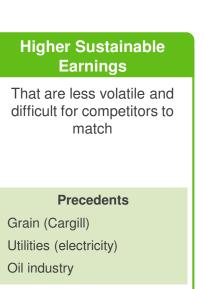
# Developing optionality across Ingredients to deliver higher sustainable earnings











If the scale of our capacity is matched by greater depth and flexibility in sales channels, and financial markets, substantially higher and less volatile earnings are possible





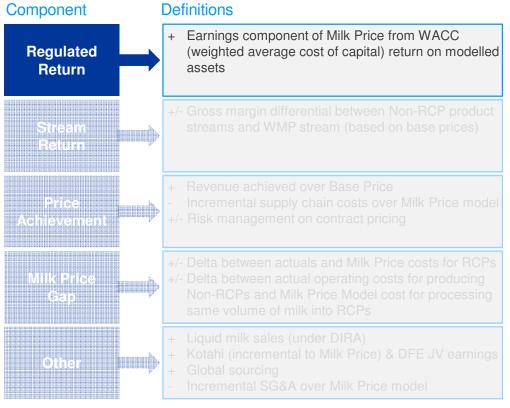
- Ingredients business is two-thirds of Fonterra's earnings
- Milk Price Model allows us to earn a Regulated Return
- Optionality in NZ Ingredients business creates higher earnings than Milk Price Model
- Our strategy has increased optionality and quality of earnings



# Regulated Return Paul Washer Director Financial Performance & Planning

## Milk Price Model & Regulated Return





**Drivers** 

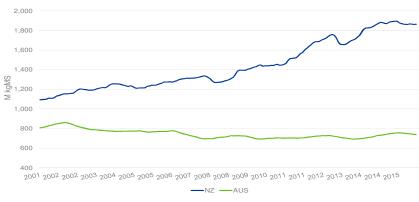
- WACC rate
- Fixed asset base (model)
- Actual working capital RCP sales rate, advance rate
- Timing of sales
- Product mix
- Asset flexibility
- Volumes
- Customer demand and contract profile
- Base prices
- Volumes
- Gustomer willingness-to-pay for solutions/services/supply
- Contract risk, e.g. long-dated, fixed-price
- Actual manufacturing footprint
- Product mix and volumes
- Operating performance
- Timing of manufacture
- Timing of sales
- Performance of individual businesses
- Global dairy prices and ability to arbitrage
- · Opex spend levels

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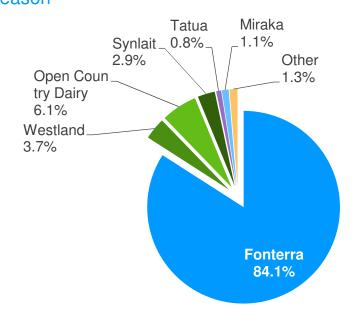
- Currently there is no true market for all raw milk produced in New Zealand
- No 'market price' for milk collected within New Zealand
- Farmgate Milk Price provides farmers with a market signal



1. Information from Dairy NZ Annual Reports

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# Share of New Zealand milk collection 2015/16 season<sup>1</sup>





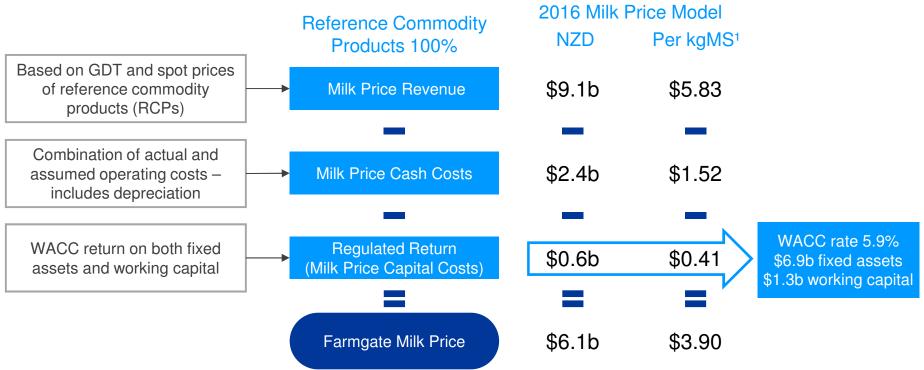
## Milk Price Model follows three basic principles

- Farmgate Milk Price methodology is codified in the Farmgate Milk Price Manual
- This detailed framework is guided by the Farmgate Milk Price Principles:
  - 1 Should reflect the benefits of scale and other economies enjoyed by Fonterra
  - Should be the maximum amount an efficiently-run commodity player can sustainably pay
  - 3 Should allocate the impact of risks between suppliers (via the Farmgate Milk Price) and Fonterra based on an ability to manage it

Transparent governance, audit and reporting processes

# Milk Price Model allows Fonterra to retain specified dollar amount as Regulated Return

Currently over \$600m



**Fonterra** 

**Dairy for life** 

1. 1,566m kgMS

Note: MPM year-end is 31 May versus Fonterra at 31 July; gross revenue shown

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## Milk Price Model passes number of risks through to Milk Price but some are carried by EBIT



#### Drivers of the Milk Price

Changes that 'pass through' to the Milk Price
RCP product mix
RCP sales phasing
Commodity prices
Currency
Resource unit costs
Milk collection and logistics costs

#### **Drivers of the Regulated Return**

WACC	rate

- Adjusted annually in line with market interest rates and funding spreads to government bonds (NZ 5-year)
- Beta adjusted through 5-yearly review

Fixed asset base

- Reviewed annually to assess sufficient modelled capacity to process forecast milk volumes
- Assets depreciated over asset life then 'replaced'

Working capital

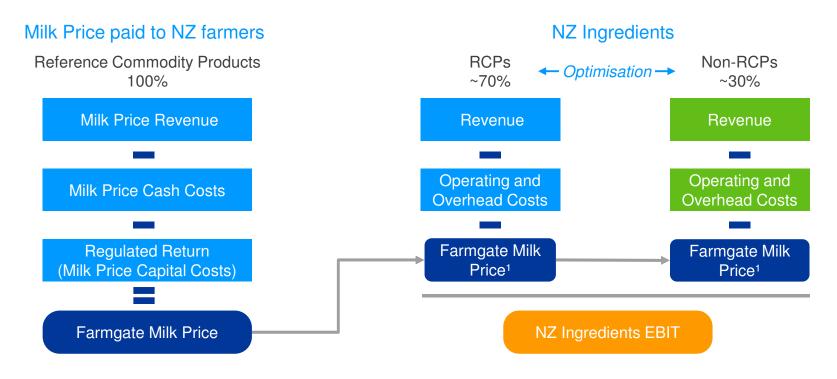
Moves with changes in RCP sales rates and the advance rate of payments to Fonterra suppliers

Timing of sales

- Model uses Fonterra's actual sales phasing of RCPs
- Regulated return may be earned through product sale in next financial year

# Milk Price then forms key component of New Zealand Ingredients COGS





<sup>1.</sup> Includes "approved adjustments" in respect of, for example, premiums for organic milk and winter milk





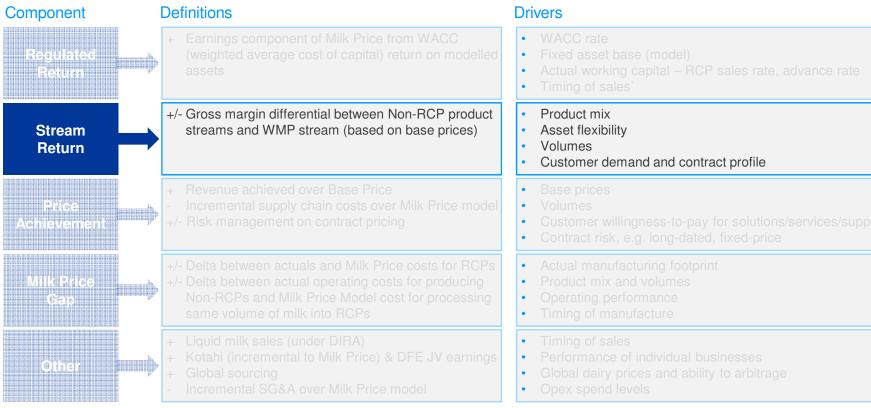
- Fixed dollar amount calculated on annual basis
- Variable component linked to actual working capital
- Independent of milk volume in given year
- Can be offset by pricing risk in product mix decisions



# Optimisation Josh Sigmund Director NZMP Sales and Transformation

## Optimisation & Stream Return





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## Fonterra's optimisation process



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## **Strategic**

#### **Tactical**

### **Operational**

#### **Strategic Portfolio Management**

- Group function driven by analysis and scenario-testing
- Manages Global S&OP
- Defines global asset portfolio

#### Global Ingredients S&OP<sup>1</sup>

- Single global S&OP for Ingredients
- Consumer regions input via demand signals sent to S&OP
- Overseen by Global S&OP

#### **Manufacturing and Logistics**

- · Rolling 2-week schedule
- Controlled by central planning with local scheduling
- Consumer regions plan in-line with demand forecasts

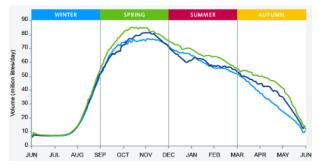
1. S&OP = Sales & Operations Planning
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## **Optimisation factors**

1 Commodity prices / Stream returns



2 Supply



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3 New Zealand asset footprint



Fonterra

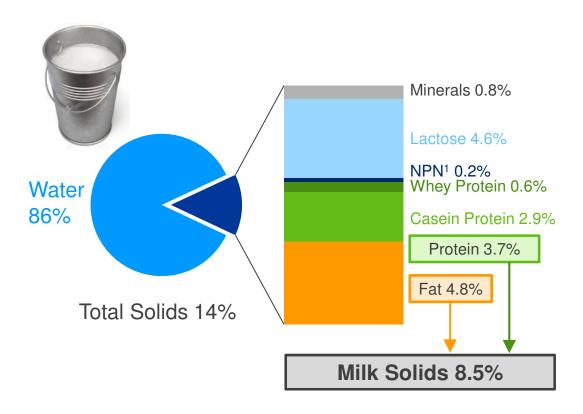
**Dairy for life** 

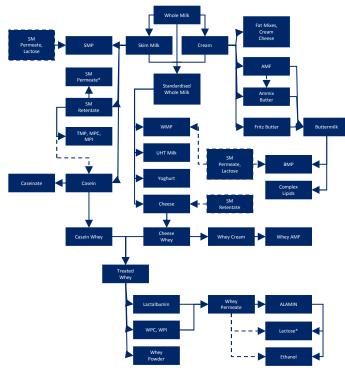
4 Customer demand / contract profile



# Optimisation allocates the components of milk to the highest value product streams





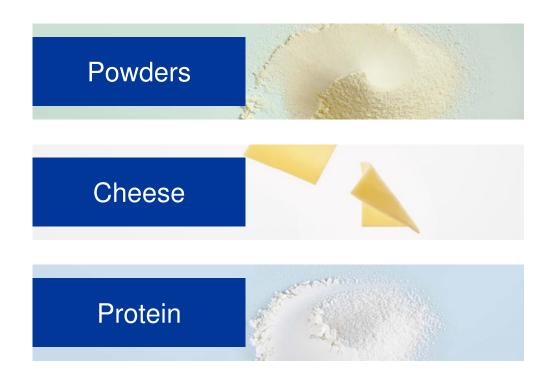


1. NPN = Non-Protein Nitrogen

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# Fonterra produces and sells three distinct groups of dairy ingredients











## Downstream / by-products are created when we produce any one product



Powder Stream — Whole Milk Power



Protein Stream — Rennet Casein



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## We evaluate stream returns fortnightly and optimise our available production





### **Powder Stream** Whole Milk Powder

Witness .	
Base Price	\$2,800
Variable Cost	- 200
Product Margin	\$2,600
Yield	x 1.75
Base Product Return	\$4,550
Downstream Products	+ 700
Stream Return	\$5,250
Stream Return (c/kgMS)	525

### Protein Stream Rennet Casein

 $\Delta = 0.00$ 



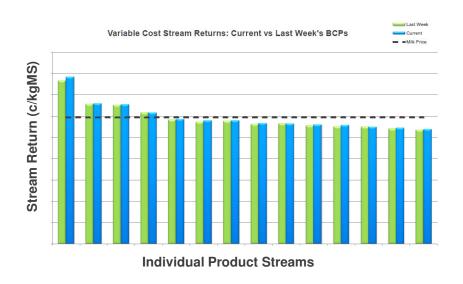
\$7,000	NZD / MT product
- 1,000	NZD / MT product
\$6,000	NZD / MT product
x 0.36	MT product / MT MS
\$2,160	NZD / MT MS
+ 4,200	NZD / MT MS
\$6,360	NZD / MT MS
636	NZc / kg MS

Note: Numbers are for illustration purposes only
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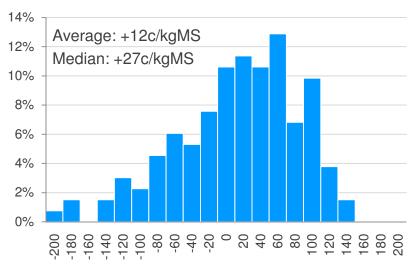
## Relative product stream returns provide short and long-term value creation opportunities



Optimisation allows us to profit from short-term optionality



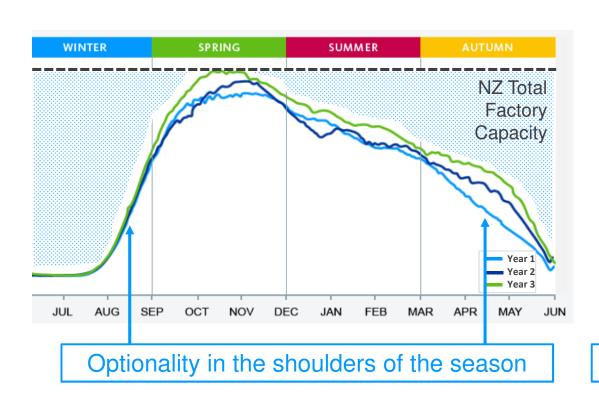
Long-term strategy is to move asset portfolio towards higher returning Non-RCP streams



Relative Stream Returns: 2006-2016 Non-RCP less RCP (cents/kgMS)

## New Zealand's milk supply profile and our asset footprint provide considerable constraints







New Zealand asset base

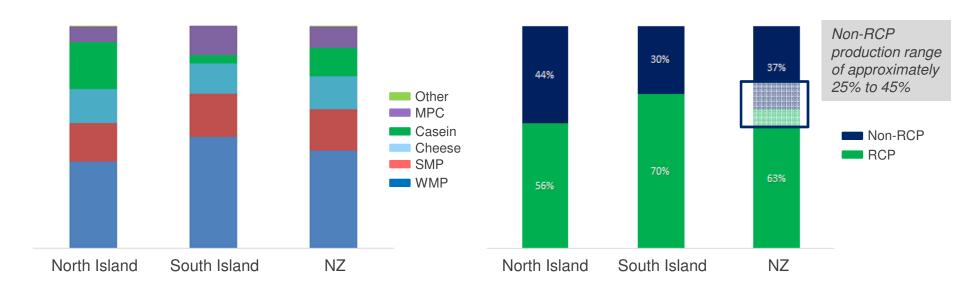
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## Current footprint allows flexibility between RCP and Non-RCP product streams



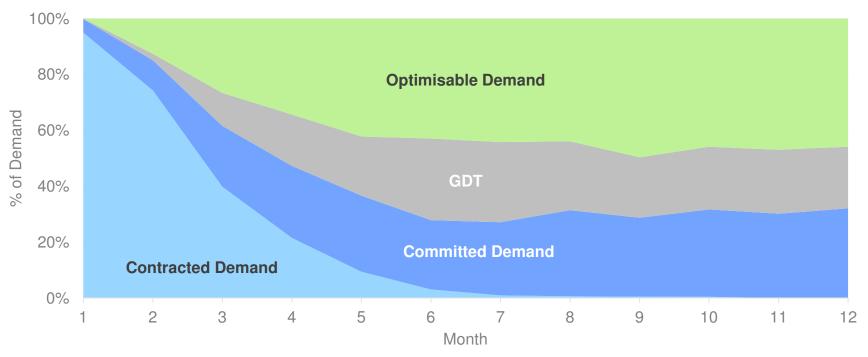
### Production capacity by commodity group

### Production capacity by RCP and Non-RCP



### Committed volumes impact flexibility but offer incremental value





Note: Numbers are for illustration purposes and do not reflect actuals
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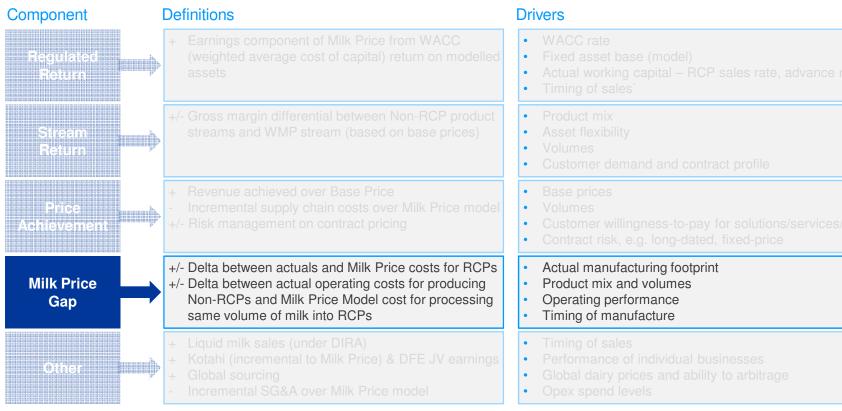
- Drives product mix
- Maximises for total shareholder value Milk Price and EBIT combined
- Based on projected demand at forecast prices
- Constrained by milk supply and asset footprint
- Creates potential (positive or negative) stream return risk
- Long-run prices favour allocation to Non-RCP capacity



## Global Operations Robert Spurway COO Global Operations

### Operations and Milk Price Gap





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### Global Operations expertise from grass-to-glass

### End-to-end control of our products



Over 10,000 suppliers 4.5 million cows 20 billion litres



Fonterra vats: 2.4 million farm collections



14 depots 506 tankers 95 million kilometres



96 primary plants across 33 site locations 2.7m MT of product



Kotahi Maersk strategic p/ship 5 deep sea ports, >1,800 voyages 300+ destination ports



Coda logistics reduces waste



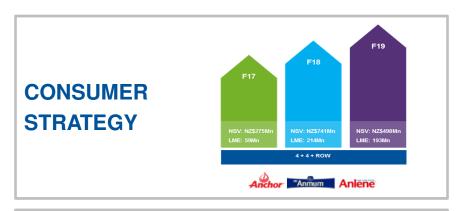
55 Fonterra owned stores 30 third party providers



Secondary processing: Eltham cheese, Canpac infant formula

### Supporting all parts of Fonterra business









ENHANCING OUR REPUTATION





### Partner in the delivery of our Ingredients strategy

### To be the #1 preferred supplier of dairy ingredient solutions

Globally Optimised, Multi-hub, Multiple sources



Turning the wheel with integrated category teams

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### Global Operations strategy connection



Consolidating our #1 dairy ingredients reputation through foundations of trust in source, delivery performance and customer satisfaction



**Conversion cost leadership** 



Creation of differentiated products and segmented supply chains and to create customer value across the dairy ingredients portfolio

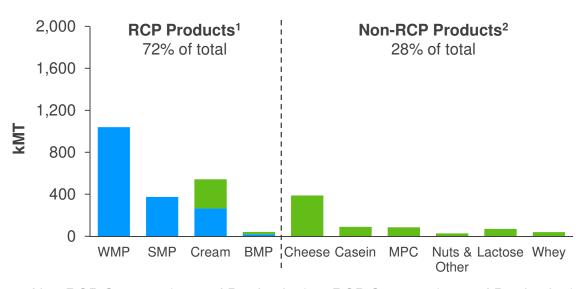


Global supply points for security and speed of supply

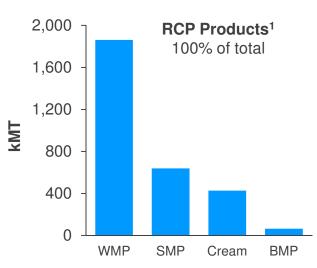
## Production spread across 10 different product groups



In FY16, **NZ Ingredients** manufactured 2.7m MT 72% were RCP products



In FY16, **Milk Price Model** production was 3m MT



■ Non RCP Streams (37% of Production) ■ RCP Streams (63% of Production)

RCP = Reference Commodity Product (WMP, SMP, Butter, AMF, BMP) – only products manufactured in the Milk Price Model
 Non-RCP = All other Ingredients products (eg. Cheese, Proteins, Specialty, Nutritionals)
 Note: Manufacture of Non-RCP product streams (eg. Cheese) produces RCP by-products (eg. Cream) – these volumes are not included in the Milk Price Model
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### Majority of costs in primary processing and storage



\$0.4b	\$1.9b	\$0.7b	\$0.2b	\$0.5b	\$3.7b	
Milk collection	Direct manufacturing and domestic supply chain cost		Shared services	Shipping costs	Total Global Operations costs	
	\$1.28 / kgMS				\$2.47 / kgMS	

#### \$1.28 / kgMS

- Collecting raw milk from farm vats
- Fixed costs of \$730m
- Variable costs of \$865m
- Domestic supply chain costs of \$315m
- Eltham cheese
- Waitoa UHT
- Canpac
- Waharoa Agbiz
- Heerenveen whey and lactose
- Product management and
  - development Asset footprint

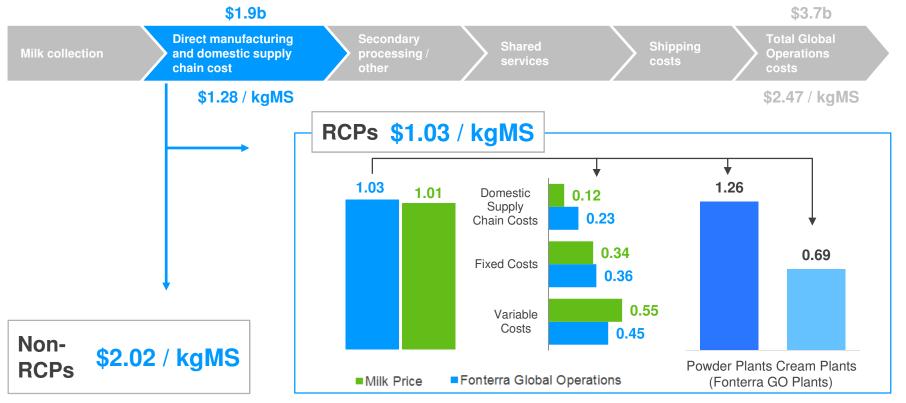
and optimisation

- · Plant automation and process control
- Product testing laboratories
- Overheads

 Sea freight costs

## Gap to Milk Price Model is driven by production of Non-RCPs and higher storage costs





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## Performance focus is on balancing customer service and lower unit costs while mitigating risks





Ingredient variable costs / kgMS manufactured



Ingredient fixed costs / kgMS manufactured



### Key risks

Peak milk costs (\$m)



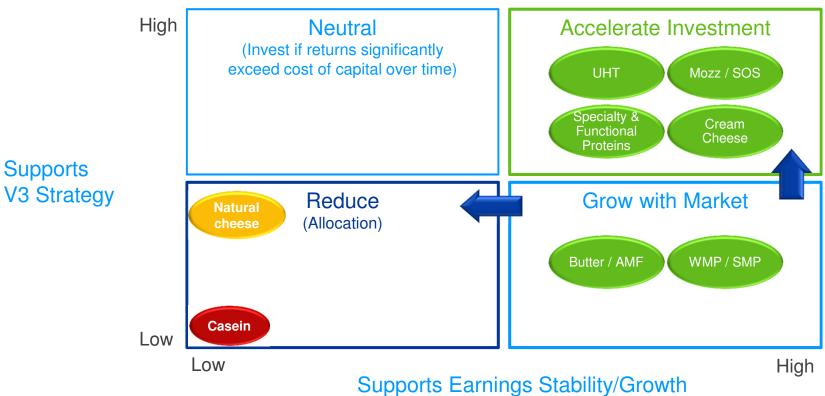
Manufacturing quality costs (\$m)



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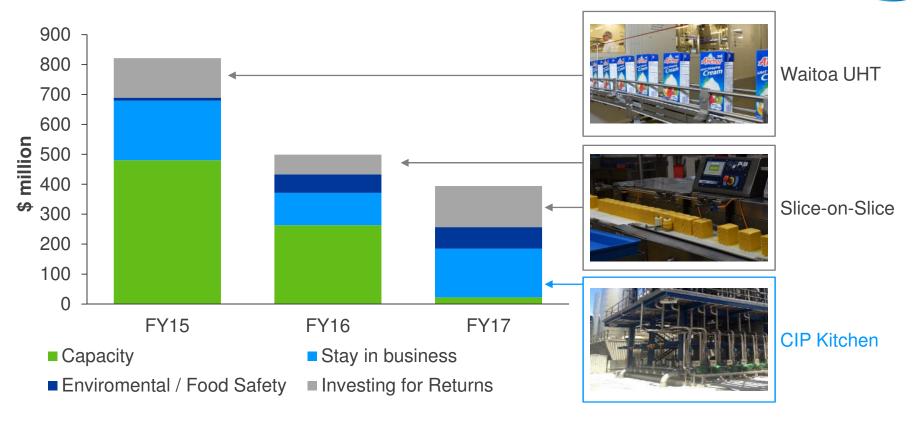
### Capital plan is driven by asset portfolio strategy



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## Passed period of significant capacity spend and now focusing on higher return on capital investments





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### Key messages on Global Operations

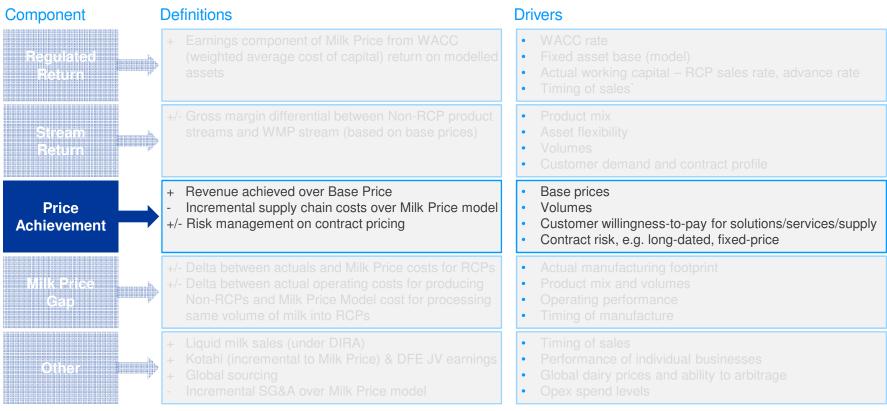
- Manufacture according to optimal plan
- Focus on gap to Milk Price Model but strategic decisions to take on more cost in order to produce Non-RCPs or add value to RCPs
- Key value drivers are efficiency, service, quality, and asset footprint
- Future investments aligned to value add strategy and capacity requirements



## NZMP Kelvin Wickham COO NZMP

### NZMP Sales and Price Achievement





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## NZMP is the leading player in the globally traded dairy market



#### **New Zealand**

Significant participant in tradable market



25b L 2% growth pa

# • Globally Traded Dairy Market<sup>1,3</sup> • Global export/import market • Informs Farmgate Milk Price 91b L 5.5% growth pa



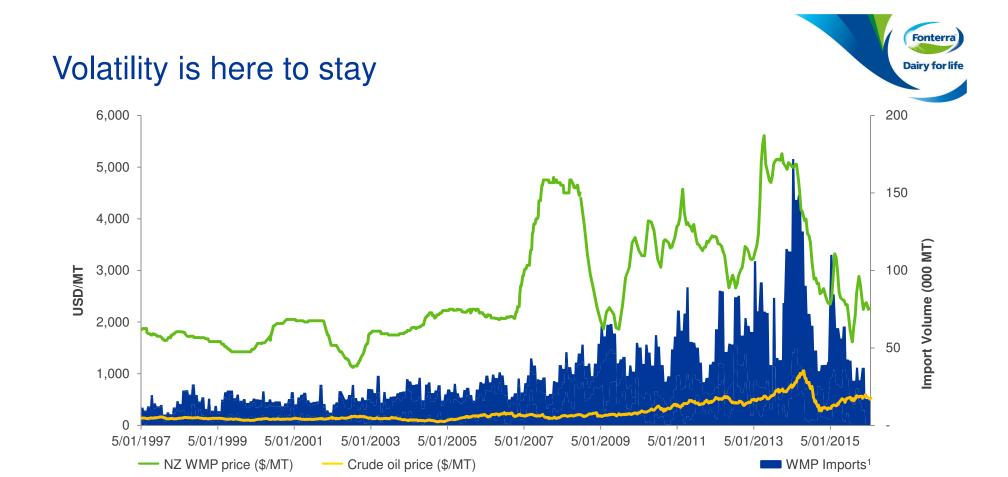
· Reflects total dairy demand



465b L 2.3% growth pa



Sources: International Farm Comparison Network (IFCN), Economist Intelligence Unit (EIU), Euromonitor, Fonterra analysis Note: Volume is on an LME basis with standardised composition of milk (4.2% fat / 3.5% protein)

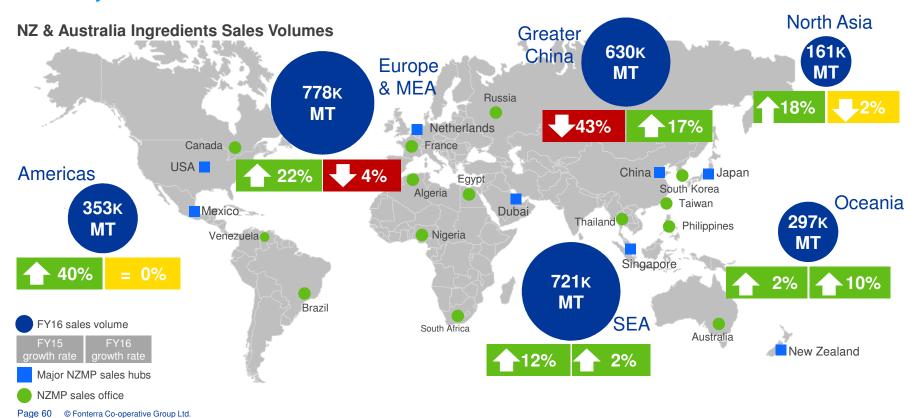


1. China, Algeria and Venezuela

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### NZMP – ingredients business with global reach

Our major hubs and sales offices are close to our customers



**Fonterra** 

**Dairy for life** 

### We have a long history of developing products and markets

Whole milk powder into Venezuela



1980s

1990s



Protein for sports drinks



Fonterra

**Dairy for life** 

2000s



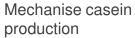
Technical sales delegations to China 1970s



Specialty proteins at scale Mozz cheese technology



Functional proteins for bars





1960s







### Five strategic pathways to drive sustained value creation



Global milk pools
Global supply chain
and logistics hubs
Customer-led
operations

Connecting Our World Top quartile engagement
Sales & marketing capability build

Committed

Teams

nzmp

Customer Leadership Segmentation and value propositions
Customer plans
Price and contract
management

Customer price risk management solutions Arbitrage Financing solutions Central Portfolio Management

Category Solutions

Strong innovation pipeline Build NZMP Brand

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### Investing in our People and Processes





1 Sales & Marketing Capability



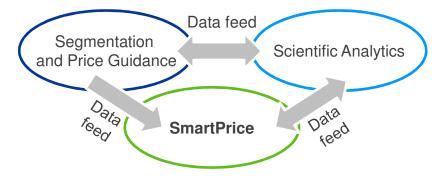
3 Integrated Business Planning



2 Customer-central Roadmap

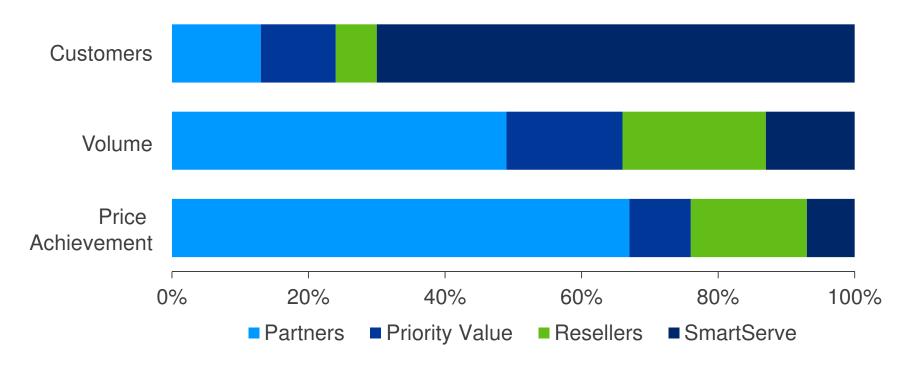


4 SmartPrice



## Customer segmentation – targeted value propositions





### Five focus categories to drive future differentiation ...





... and develop solutions with a segmented customer base







**Dairy Beverages** 



**Dairy Foods** 



**Active Nutrition** 



**Paediatrics** 

**Definition** 

Powders supplied to B2B customers for repacking

Dairy/non-dairy beverages and cultured brands. targeted at mainstream consumers

Foods that use dairy as a key ingredient: cheese, butter, desserts

Category covering sports, healthy lifestyles/aging and medical nutrition

Dairy nutrition to support the growth and development of new-borns and infants

Consumer **Trends** 

Affordability and new experiences

Freshness and premiumisation

Convenience and westernisation

Increasing health awareness

Nutrition offerings that match benefits parents are looking for

### Unlocking value through Central Portfolio Management





### Sales Book Management



- Sales tactics
- Monetising insights
- Contract tenor

Arbitrage



- Tariff efficiency across global milk pools
- Geographic pricing spreads

### **Customer PRM Solutions**



- Spread between buyside and sell-side products
- Contract markets eg. fixed price

**Monetising Optionality** 

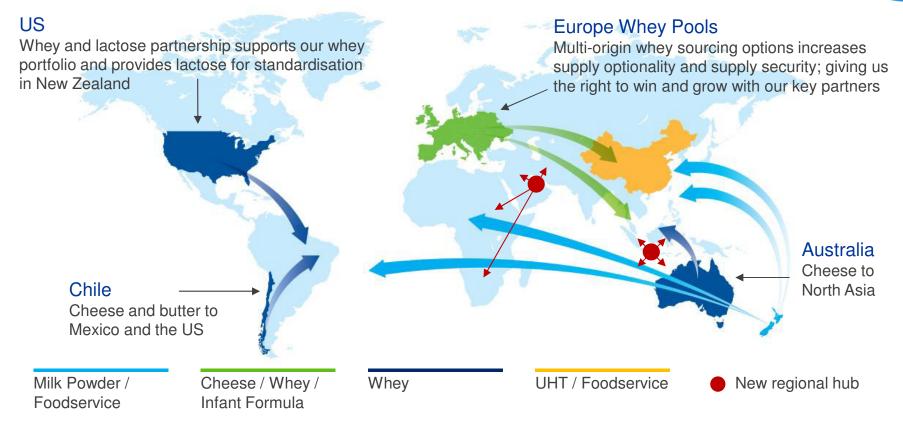


- Asset flexibility
- Mix optimisation
- Financial markets

## Enabled by the continued development in our supply chain







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## Examples of delivering solutions for our customers to build sustainable premiums



### **Tailored Whey Offering**

Whey innovation for sports nutrition with leading Japanese dairy company – backed by multi-origin sourcing options









#### **Cheese Innovation**

New affordable cheese formulation with increased 'stretch' for pizzas in our key Asia markets







### **Financial Services**

Long fixed price contracts to a portfolio of customers to manage cost of goods – backed by hedging derivative



### **Supply Chain Solution**

Dubai in-market warehouse increasing customer responsiveness on order lead times

















INNOVATION

**SCALE** 

REPUTATION

TRANSPARENCY

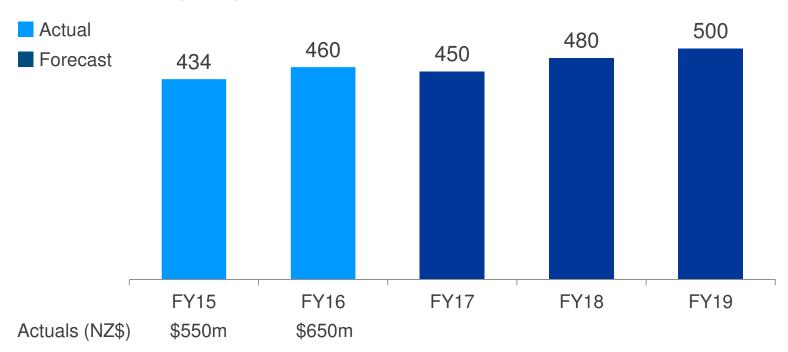
REACH

**BREADTH** 



### Strong ability to capture premiums over time

### Price Achievement (US\$m)



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- Global sales network and well established customer base
- Proven track record navigating volatility, building markets and innovation
- Earning premiums for product and service differentiation above reference prices
- Focused investment in innovation, capability and services to win with targeted customers
- Leveraging global supply footprint to build out success options



## Fonterra Strategy Theo Spierings CEO

### On track to meet our 2025 ambition

OUR 2025 AMBITION

THIS IS FONTERRA

OURVALUES

Make a difference in the lives of 2 billion people by 2025





No.1 or 2 Consumer business In our Strategic Markets upported by Foodsawica TOP 3
REPUTATION
In our
Strategic Markets

WORLD CLASS Engagement

TRUST

With our purpose, story and values at the heart, our 'this is. Fonterra framework' brings together our people, identify and strategy commitments to guideus 'to be the world's most rusted source of dairynutrition'.



Our Values are our guide and under pin how we do busin ess

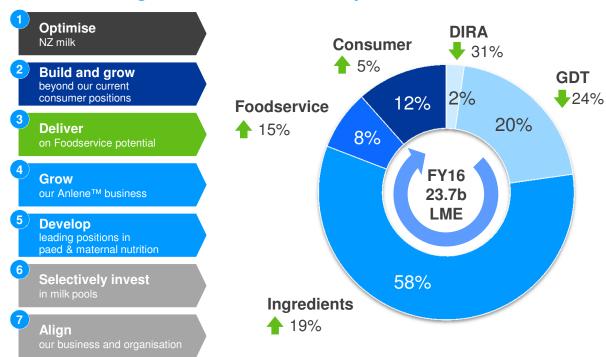






# Delivering our strategy

### Volume to higher Value at Velocity



### FY16 result

- GDT volume lower
- Ingredients
  - Optionality improved mix

**Fonterra** 

**Dairy for life** 

- Ingredients solutions for customers adding value
- Lower operating costs
- Return on capital of 13.4%
- Consumer and Foodservice
  - Added 380m more LMEs
  - 1 billion added in two years
  - Return on capital of 41.7%



FY16 sales volume growth over FY15

Note: Return on Capital (ROC) excludes goodwill, brands and equity accounted investments

Source: Wheel shows percentage of total FY16 external sales (LME) by strategic platform; Growth rates include intercompany sales to other strategic platforms

# Strategic planning cycle

## STRATEGIC ANALYSIS



Approach

What this gives us

Timina

Identify the key questions and assumptions that underpin the success of the 7 strategic pathways

A clearer picture of SWOT¹ in each pathway, and a blue ocean view of technologies and innovation with potential to transform our business model

Feb '17

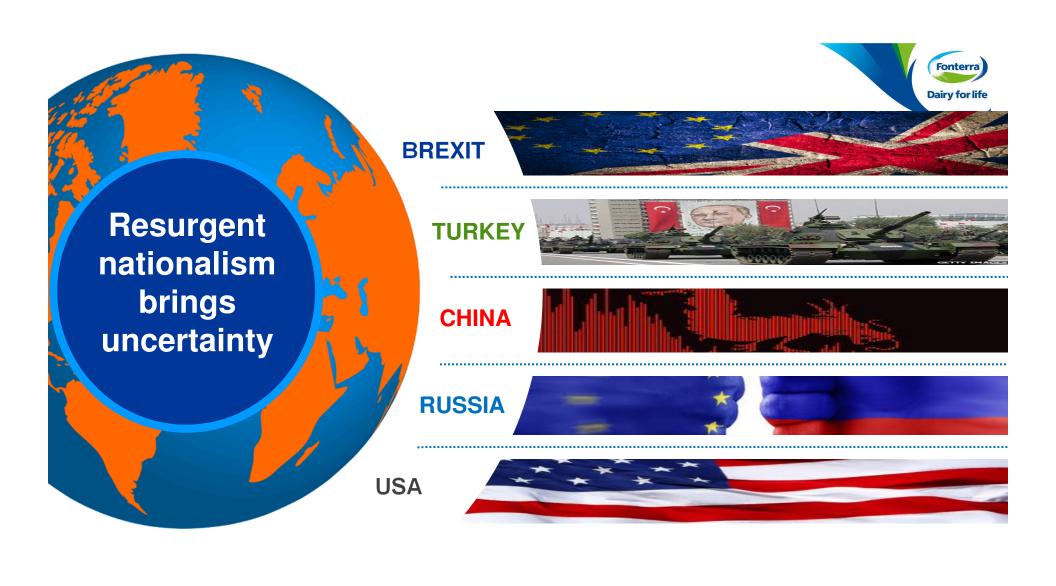
1. Strengths, Weaknesses, Opportunities and Threats.

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# Global mega trends and social responsibility influence our choices

- Climate change working against future of food
- Food production contributes 30% of global greenhouse gas emissions
- Serious land degradation affects 20% of world's arable land

Climate Change

- Dairying is 20% of all global agricultural land
- Current food productivity growth is 1% per annum
- If we could raise it to 2-3% we could help alleviate world poverty

Nationalism

Global Trends

Productivity

- Resurgence of nationalism brings uncertainty
- Protectionism threatens global trade
- Volatility in commodity prices to prevail

Socio-economic

- Feeding the world (7.5B people), a third of which is wasted
- Food has a massive global impact:
  - 40% of global employment
  - NZ\$8 trillion industry 10% of consumer spend
- Dairy contributes >NZ\$12bn to the NZ economy supported by a 30,000 strong family





# Strategic planning cycle



#### Approach

What this gives us

Timino

## STRATEGIC CHOICES



Make choices on adjustments to where and how to compete within each strategic pathway

A strong link between the Ambition and the most important moves that need to be taken at BU level

April '17

# Our strategic choices are anchored by our beliefs and assessed through commercial filters



Beliefs Filters

Dairy is demand-led

NZ milk can sustainably grow at 2-3% p.a.

Offshore milk is needed to meet demand

Strategic Relevance

Market Potential Return on Capital

Ability to Win

# Strategy house



#### **Growth Generators Cash Generators New Business Generators Group Themes** "Must Do" "Can Do" "Want to Do" **Optimise** Everyday NZ milk How and where do we use Are we capturing maximum What are the best long term NZMP to seed Consumer uses for each Milk Pool? stream returns? brands? Build and grow beyond our current consumer positions Out-of-home Is there enough whitespace in our target markets to satisfy our **Deliver on** Foodservice growth ambitions? Are we capturing maximum How do we compete effectively value through our current in low cost markets as well as commercial model? traditional developed markets? Where does Consumer and Grow our Foodservice growth create the Advanced Anlene business most value? **Develop** leading positions in paed & maternal nutrition Can we win in our target growth What level of NZ milk pool Are we the natural owner of milk markets with our current growth is sustainable? pools? proposition and capabilities? Selectively invest in milk Enablers Where does an integrated model create What are the capabilities needed to Align our business and competitive advantage? implement our strategy? **Organisational Capabilities Capital Management**

**Our Purpose & Values** 

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#### **V3 Strategy**

'Cash' and 'Growth'

# Future Growth Platforms 'Growth' and 'New Business'

# Sustainable Long-term Model

#### Scope

- Market / Product Selection
- Commercial Models
- Growth Paths
- Resource Allocation

- Innovation
- Disruption
- Technology
- Digital Transformation
- M&A

- Future of Food
- Future State Operations
- · Consumer of the Future
- Sustainable Production

Value Horizon

1-3 years

**5-10 years** 

>10 years

# Strategic planning cycle



What this gives us

Timino

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## STRATEGIC IMPLEMENTATION



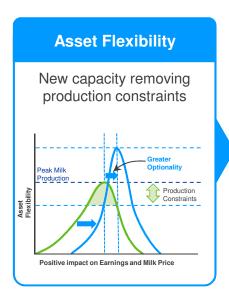
Identify the most important actions to take to maximize the chances of successfully 'landing' the strategy

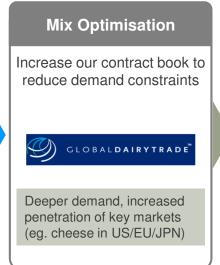
A clear implementation plan connected to action, aligned and integrated with the three year business plan

June '17

# Ingredients strategy in place and underway







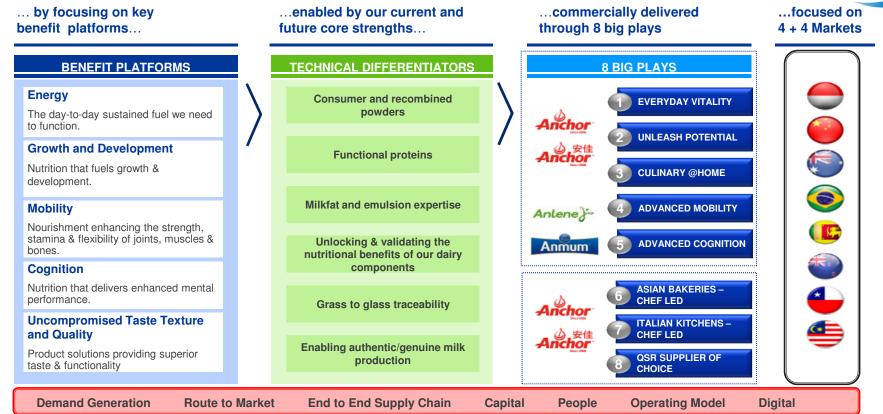




If the scale of our capacity is matched by greater depth and flexibility in sales channels, and financial markets, substantially higher and less volatile earnings are possible

# Consumer & Foodservice strategy delivering higher incremental returns





Page 85 © Fonterra Co-operative Group Ltd. Critical enablers & capability development required – our right to win







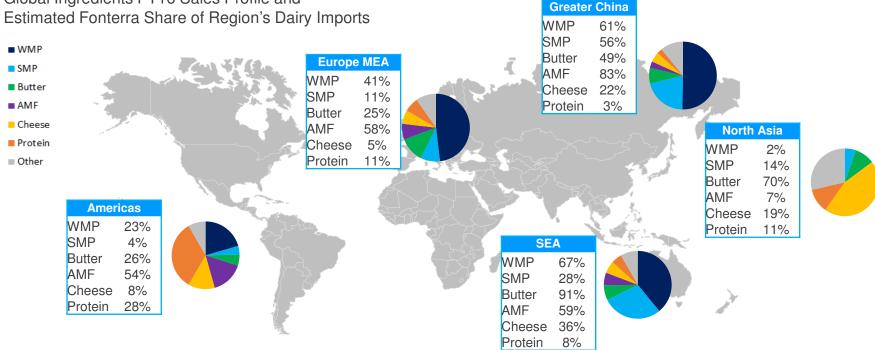
	FY15	Revenue	Milk Cost		Other COGS		Gross Margin		
	NZ Ingredients 1,554m kgMS								
	per kgMS:	\$8.43	\$4.75	-	\$2.73	=	\$0.95		
erra-	Non-RCP	P 395m kgMS							
Fonterra	per kgMS:	\$9.24	\$5.57	_	\$1.94	=	\$1.73		
	RCP 1,092m kgMS								
	per kgMS:	\$6.79	\$4.50	_	\$1.57	=	\$0.72		
	Milk Price Model 1,614m kgMS								
	per kgMS:	\$6.53	\$4.40	_	\$1.51	=	\$0.69		

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# Ingredients business with global reach

### Leadership position in key product portfolios

Global Ingredients FY16 Sales Profile and



**Fonterra** 

**Dairy for life** 

Note: FY16 sales (MT) are shown on the basis of the shipping destination for the product.

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# Example NZMP products





**Consumer Powders** 



**Dairy Beverages** 



**Dairy Foods** 



**Active Nutrition** 



**Paediatrics** 

#### **Products**

- WMP (Instant, Reg etc.)
- Instant SMP
- Flavoured milk powders
- FFMP & Powder Blends
- Casein(ates) & MPCs

- UHT WMP
- MPC
- SMP (Reg & UHT)
- WPCs

- Mozzarella
- Natural Cheese (Edam, Gouda, Egmont)
- Butter
- AMF
- MPC

- WPC/WPI
- MPC (70, 85, functional)
- Functional WPCs
- Caseinates
- TMP
- Specialty whey e.g. hydrolysates

- IF, FO & GUMP base powders
- Paediatric grade WMP, SMP & BMP
- WPC80, D90
- IF grade Lactose & GOS
- Hydrolysate, lactoferrin
- Probiotics







Assumes all milk collected in a season is processed into a Reference Commodity Product (RCP)

Revenue

- Allocation of milk to product streams broadly matches Fonterra
- Sales phasing aligns to Fonterra, and contract phasing broadly aligns
- Lactose for standardisation effectively a 'negative revenue'
- Notional US\$ revenue converted to NZ\$ at Fonterra's average monthly conversion rate

less

Cash costs

- Fonterra collection costs
- Commission / supply chain costs assume set percentage sold via GDT, and minimal offshore network

Manufacturer specifications of resource usage for modern powder plants, but Fonterra unit costs

Administration / overhead a scaled down (RCP only) version of Fonterra costs

less

Capital charge

- Manufacturer specifications for 'standard' 1.9 million litre per day milk powder plants new powder plants 2.4 million litres per day from 2013 on
- Other assets based on Fonterra replacement cost
- Working capital follows Fonterra's, but based on powder stream only
- Depreciation allowance and post-tax WACC capital charge on total capital employed



# Milk Price Model – detailed P&L

Milk Price Model (NZD \$m)	2016	2015	2014
Million kgMS	1,566	1,614	1,584
Net Revenue	8,832	9,937	16,834
Milk Cost	(6,101)	(7,096)	(14,151)
Cash Costs	(1,815)	(1,889)	(1,819)
Depreciation	(266)	(263)	(250)
Regulated Return (EBIT)	650	689	614
WACC – fixed assets	(407)	(393)	(436)
WACC - net working capital	(73)	(120)	(26)
Tax	(170)	(176)	(152)
NPAT	-	-	-
Fixed assets	\$6.9b	\$6.5b	\$6.4b
Working capital	\$1.3b	\$2.3b	\$0.9b
WACC rate	5.9%	6.1%	6.8%

Note: Milk Price year is to 31 May versus Fonterra financial year ending 31 July



# Milk Price Model – components



# Milk Price Model – cash costs assumptions



Milk Collection

**Factory** 

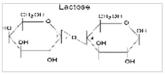
Lactose

Supply Chain

Admin / Overhead











- Fonterra's collection cost
- Manufacturer's specifications of resource usages (energy, labour, losses) for modern powder plants, but Fonterra's unit costs
- Bought-in lactose for powder standardisation
- Reflect assumption that Milk Price business supported by an offshore network
- Based on Fonterra's, but reflect narrower scope of milk price business



# Milk Price Model – capital charge

- Fixed asset base reflects:
  - Manufacturer's costs for 'standard' 2.5m litres per day milk powder plants
  - Other assets based on Fonterra replacement costs
  - WACC charge and depreciation allowed for in respect of fixed assets
  - Working capital requirements over the course of the season primarily vary with Milk
     Price sales phasing and the profile of payments to farmers (Advance Rate Schedule)
  - Capital charge is applied to monthly net working capital balance (one implication is that farmers are compensated for deferral of payments for milk, and that Milk Price therefore effectively includes an interest component, which varies from year to year)
  - WACC is post-tax, so separate provision included for tax