# Intelact Nutrition 2003 Conference

# History of NZ Dairy Industry

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#### Reason for my interest

- No strong ideological bent
- Lack of intellectual honesty
- Weak leadership
- Poor process
- Very poor monitoring (out of view)
- Impact on allocation of resources in

#### Cont'd

- Some experience and expertise
- Old fashioned sense of public duty
- Would like to see it do well

Note – I am only presenting publicly available information

## Outline

Part 1: Origins

Part 2: Mega Merger

Part 3: Change

## Part 1: Origins

Cultural roots

Approach to marketing

Strategy

Outcomes from first 125 years

## Cultural roots

## "Know the past if you would divine the future"

Confucius

### "Primitive....unhygienic.....tiring.... boring. Milking cows was hard..."

David Yerex, "Empire of the Dairy Farmer". For many years, Mr Yerex was the editor of the industry's publication "The Dairy Exporter"



## "Cheek by jowl, almost all poor....."



#### Enduring serious hardships, including anthrax (which is, of course, topical given recent international terrorist threats)



Annual Report, Department of Agriculture, 1903

Gilruth used this photograph in his 1903 annual report to bring home to farmers the deadly na-ture of anthrax. This farmer died, probably after inhaling spores.



"....Early dairy farmers all had the same ambition to achieve a decent life for their families. They all came from much the same class in Britain. All shared the same hatred of the worst features of English class society."

David Yerex, "Empire of the Dairy Farmers"

Like gold prospectors of the era, dairy farmers shared a dream that milk production would deliver independence and prosperity

Arthur Ward: "No industry involved in the production of food would ever fail in a hungry world"

Dairy farmers' dreams were best summed up by William Bowron, the Government's Chief Dairy Expert, in his report to Parliament in 1894:

"The untold enduring wealth of NZ lies upon the surface....."



"....and the cow is the first factor in the way of securing it....."



".....We have only to make the prime article in butter and cheese, then no power on earth can stay the flow of white gold in this direction."

William Bowron – 'Chief Dairy Expert' for the Government, 1894



#### WAIKATO TIMES, 11 OCT 1997

"As Waikato's white gold builds to a record flush, milk tankers work around the clock to collect it from over 6000 farmers....."

#### THE PRESS, 14 OCT 2000

"The great silver trucks glide up and down Ashburton's West Street, and then spread out to the plains of Mid Canterbury to fill their bellies with white gold".

#### NZ DAIRY BOARD, 6 APRIL 2001

"Milksolids are the white gold left for export processing......and the Dairy Board sells it all....." Neville Martin

## THE SOUTHLAND TIMES, 21 JUN 2001 White gold flows on down in Southland dairy sheds

"Dairy farmers developed a suspicion of city and urban interests...were seeking more than a fair share of his hard-won livelihood." Arthur Ward, "A Command of Co-operatives"

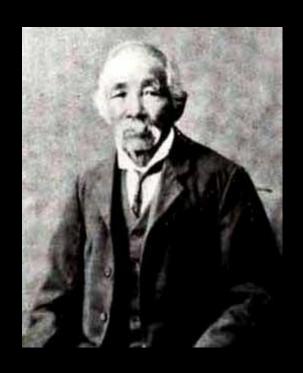
These 'outside' interests included virtually everyone beyond the farm gate: "processors, quality controllers, wholesalers, distributors, merchants, advertising agents, bureaucrats, retailers, financiers and tax gatherers." David Yerex

Farmers were particularly suspicious, without good reason, that Tooley St merchants (UK importers) were screwing them.

## Dairy farmers would congregate for hours and reinforce each other's prejudices

Gordon McLaughlan, "Illustrated History of NZ Agriculture"





Chew Chong, Taranaki

"Unity among farmers emerged from their shared distrust of outsiders" David Yerex "Dairy farmers came to believe - and it was an article of faith - that they secured more of the selling price of their produce by the cooperative method" Arthur Ward, "A Command of Co-operatives"

"After a slow start, the concept of the cooperative dairy company spread like a faith – an extension of the small-holder's desire for as tight a mastery as possible over his destiny"

Gordon McLaughlan, "An Illustrated History of NZ Agriculture"

The industry's culture is driven by a fierce determination among farmers to be 'free men'

It is a strange paradox, then, to find the industry was largely created by the Government.

And for 100 years, whenever problems arose, the industry always turned to the Government.

Industry historians like Arthur Ward, Gordon McLaughlan, David Yerex highlight that the culture and values of those pioneering days have been powerful influences in the modern era

## Marketing

The essence of any business is to capture value from customers, managing risks efficiently

#### Consumers

What are customers willing to pay?

Can I get a margin to cover my full costs?

What are my competitors doing?

What if demand drops?

Trade access?

Risk of over-supply?

Exchange rate?

Best logistics ?

QA?

Best presentation? Post-sales service?

How to hedge risks?

Customers' demands provide value signals for producers

"The responsibility of selecting a suitable marketing medium... was laid upon the bodies of farmers, who while mostly good farmers, were in no position to judge the markets or marketing organisation."

Mr Pottinger Director of State Marketing Dept, then NZ Dairy Products Marketing Commission

1895 – 1921 Govt Dairy Commissioner

1900 – 1921 London Office for National Dairy Association

1914 – 1930s Govt Board of Agriculture

1914-21 'Imperial Commandeer'

Value signals 'blunted'

Dairy producers

1922 – *(date)* Dairy Council

1923 – 62 Dairy-produce Board of Control [Renamed 'NZ Dairy Board in 1935]

Value signals 'blunted'

1934 Royal Commission into the Dairy Industry

1935 - 47
Executive Commission of Agriculture

1936 – 47 State Marketing Department

Dairy producers

Value signals 'blunted'

**Dairy Products Marketing Commission** 

Dairy producers

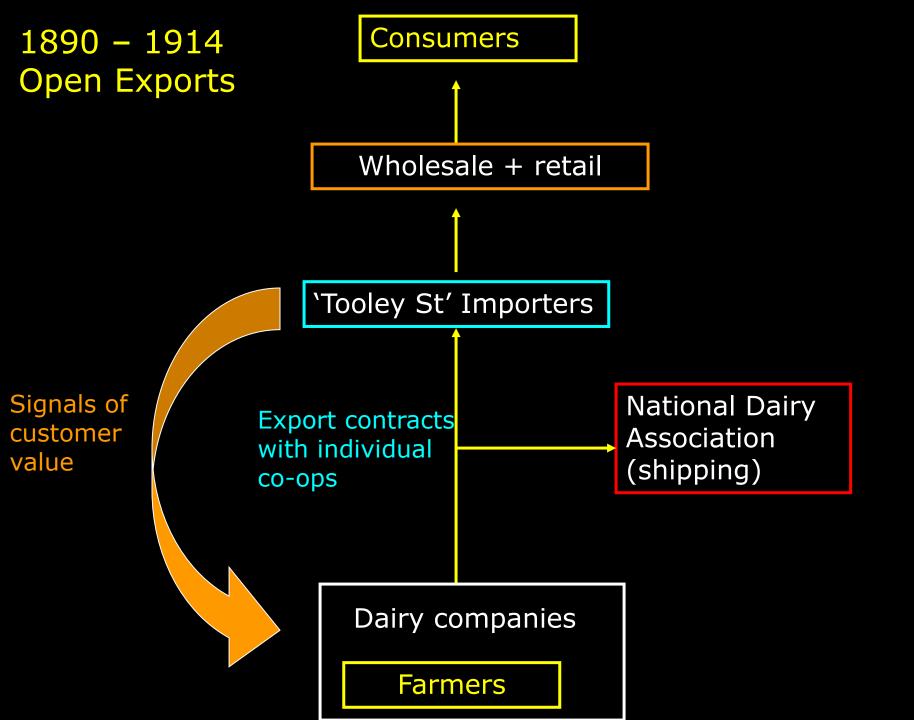
1956 – (date) Dairy Industry Loans Council

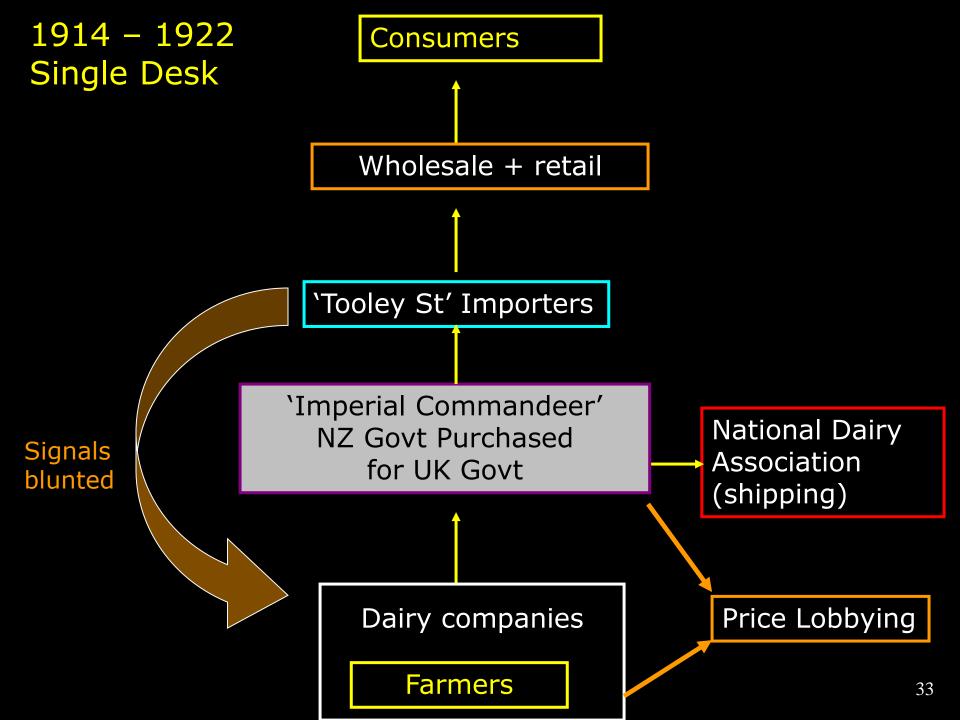
1955

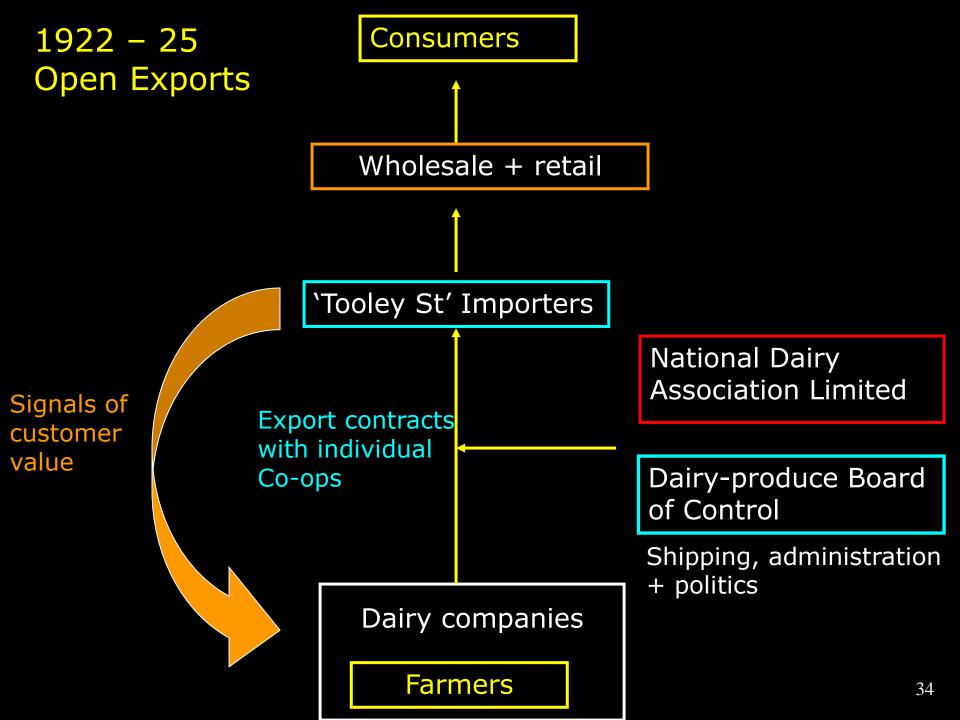
Govt Committee of Inquiry into the Dairy Industry

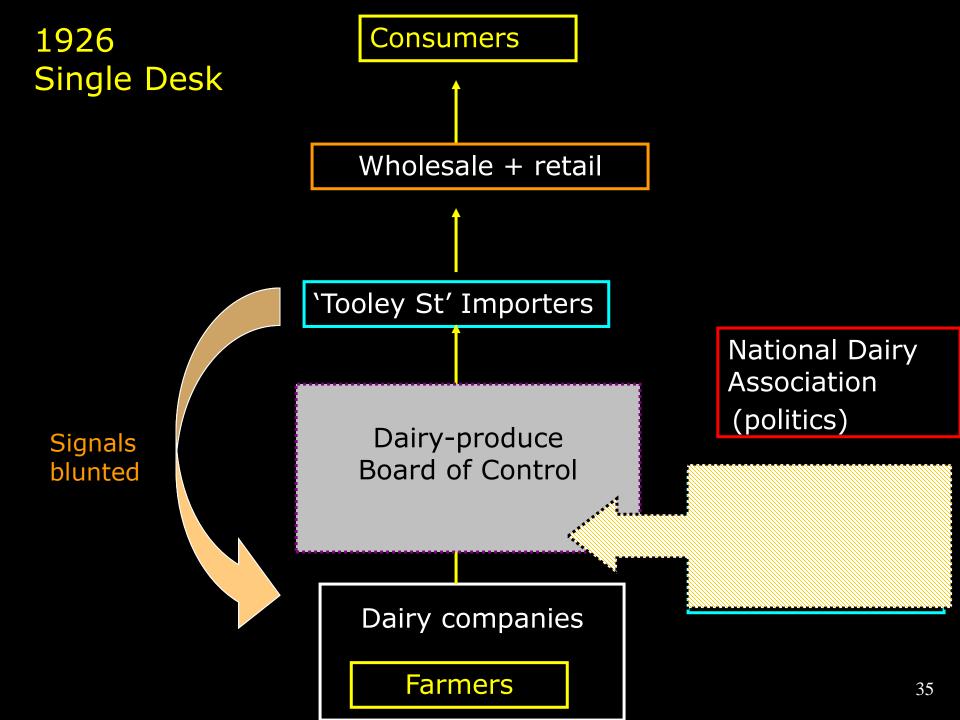
Value signals 'blunted'

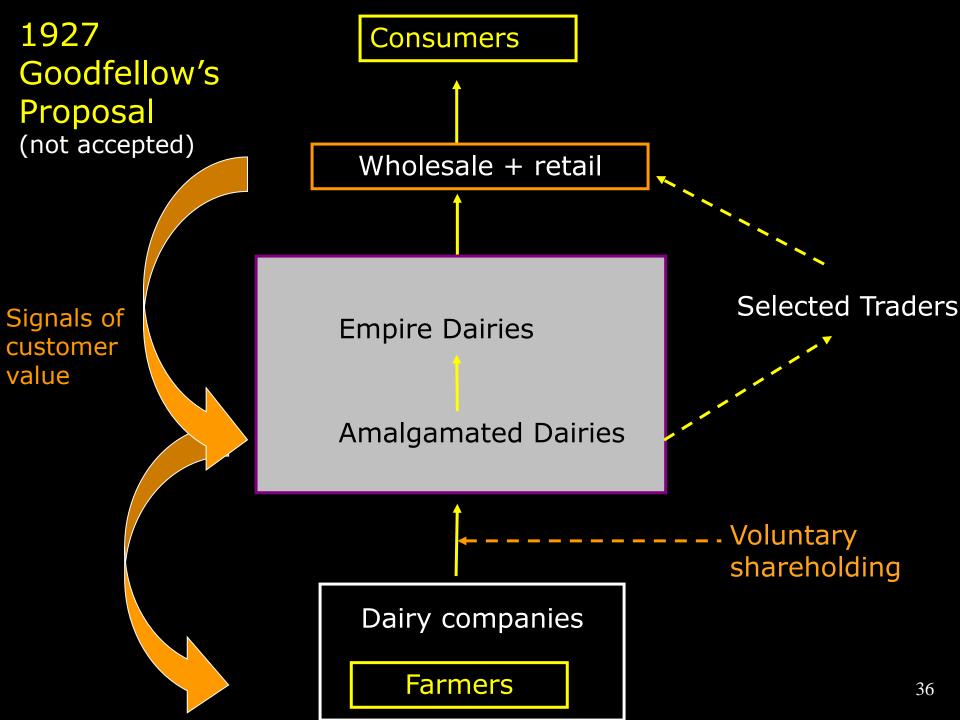
1962 – 2002 Dairy Products Control + Marketing Board [Renamed 'NZ Dairy Board']

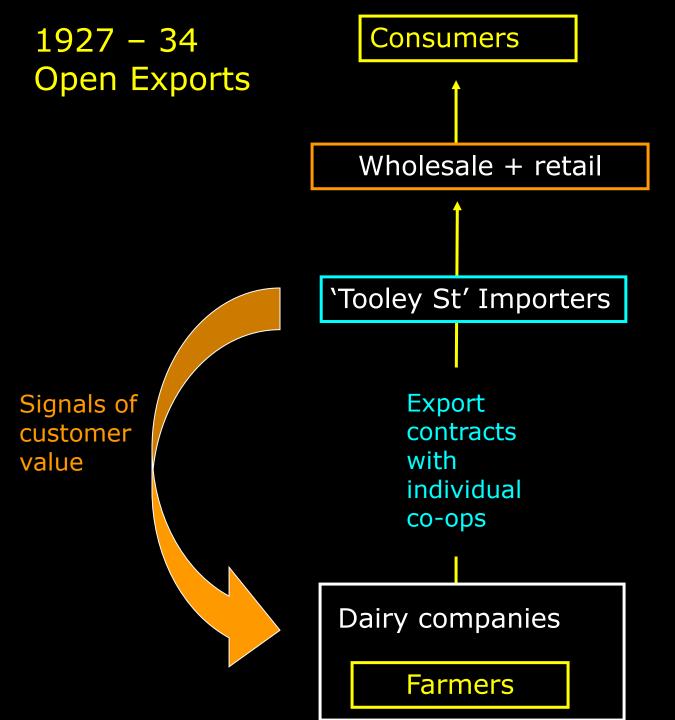








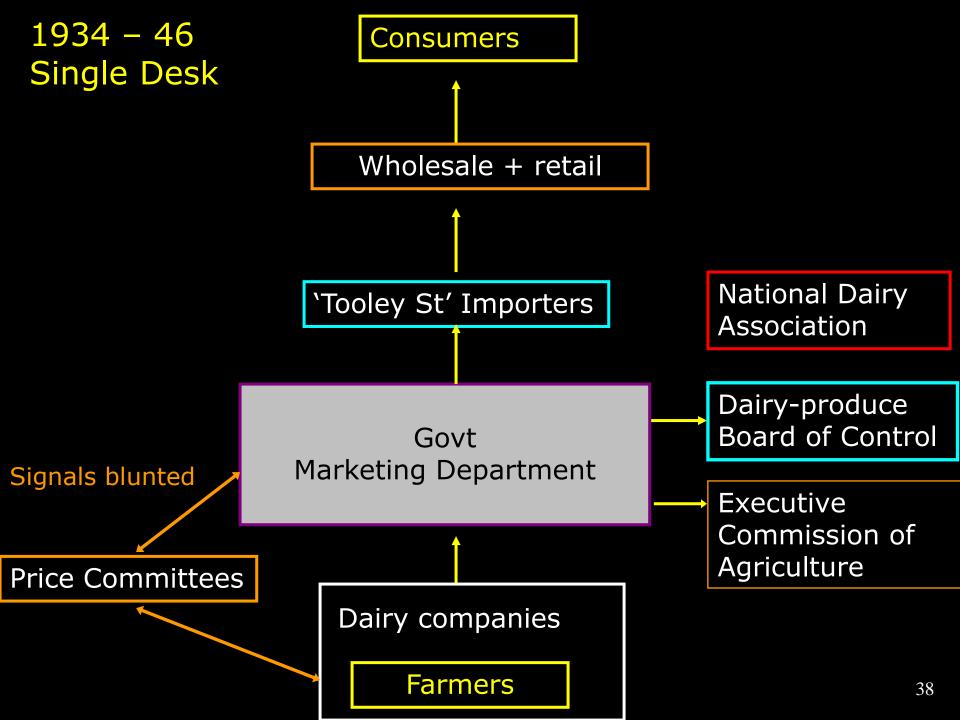




National Dairy Association

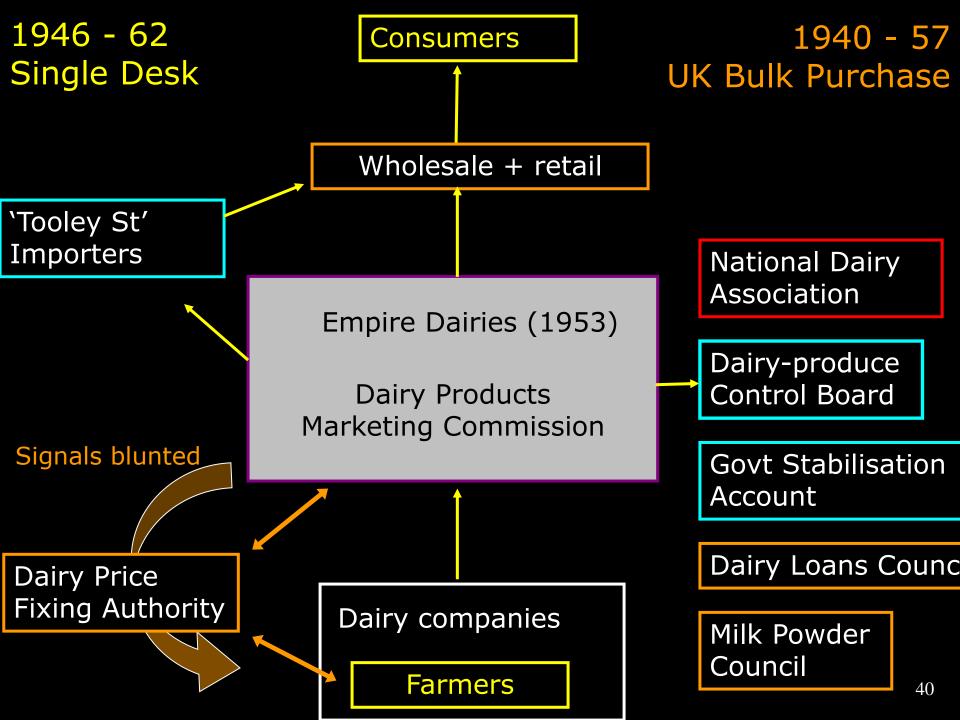
Dairy Board of Control

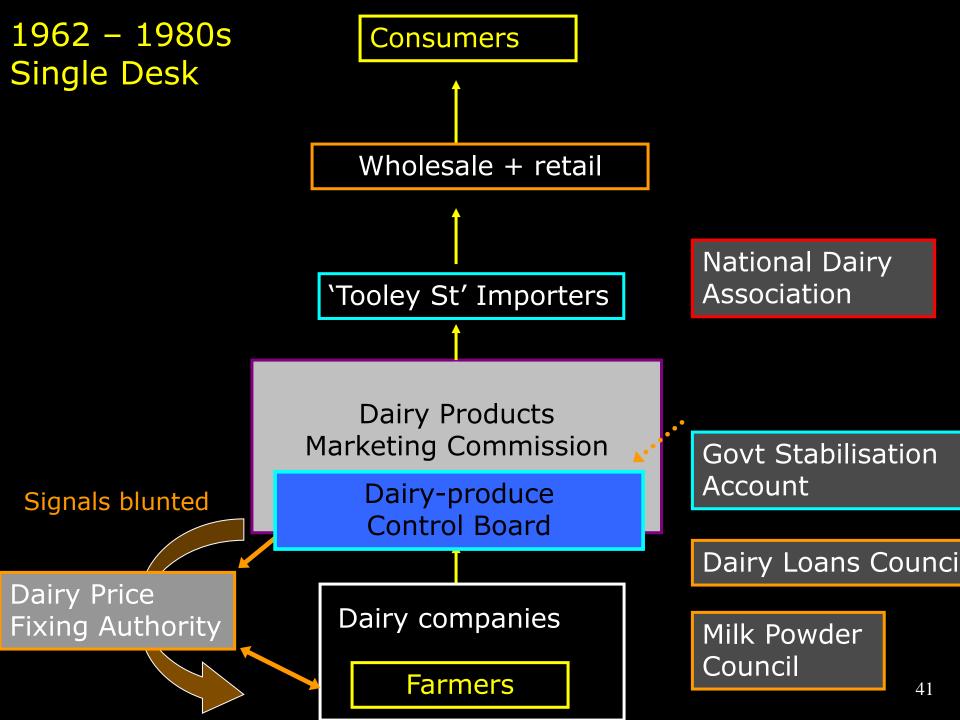
Shipping, administration + politics

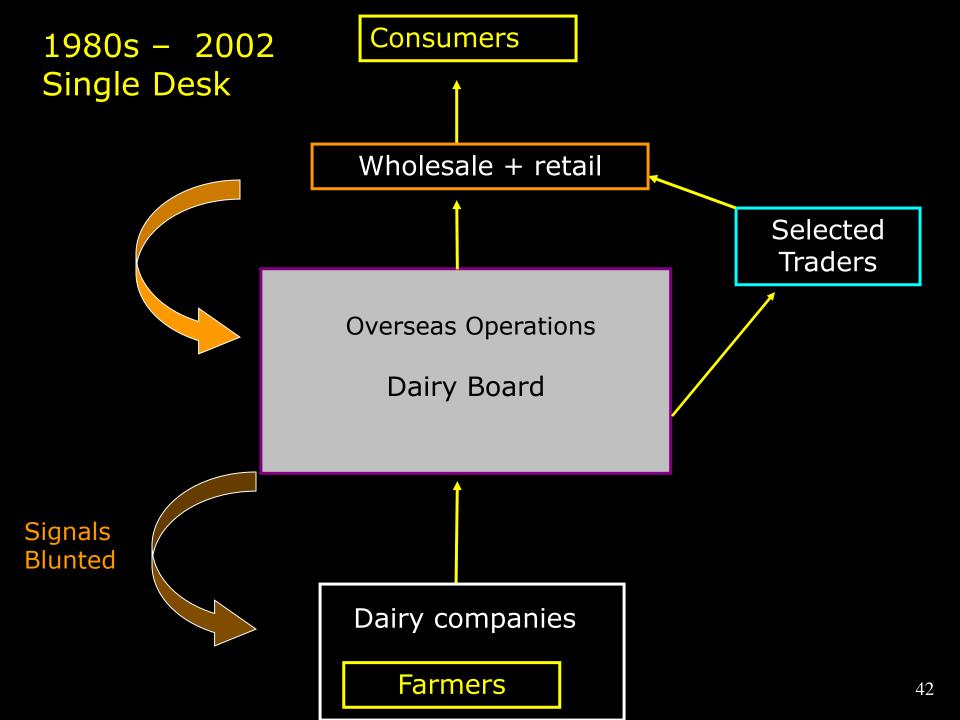


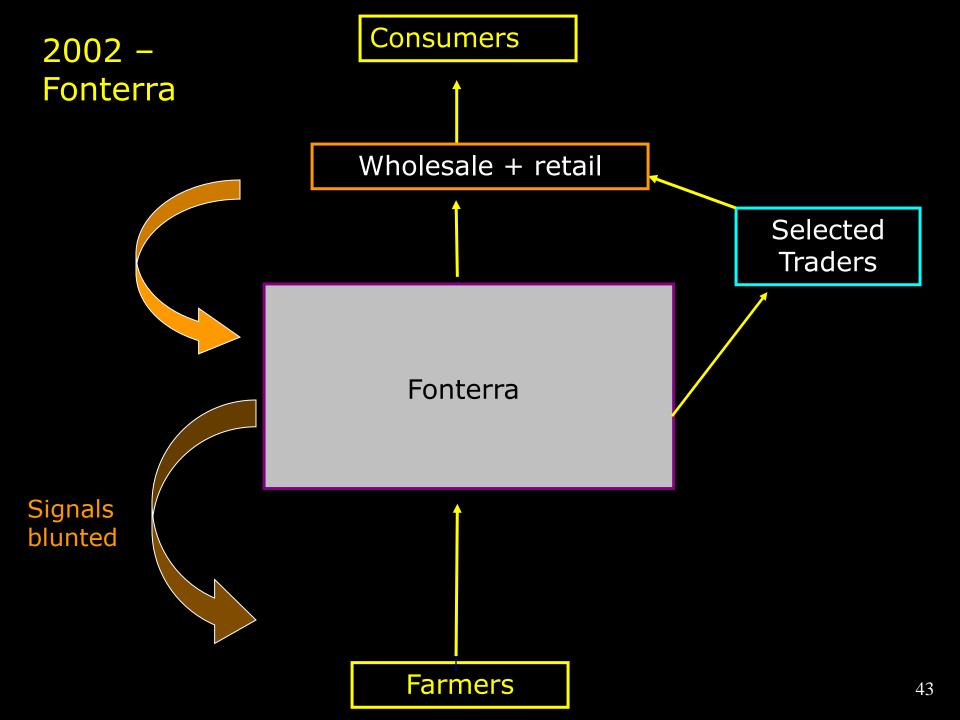
# Government guaranteed price scheme

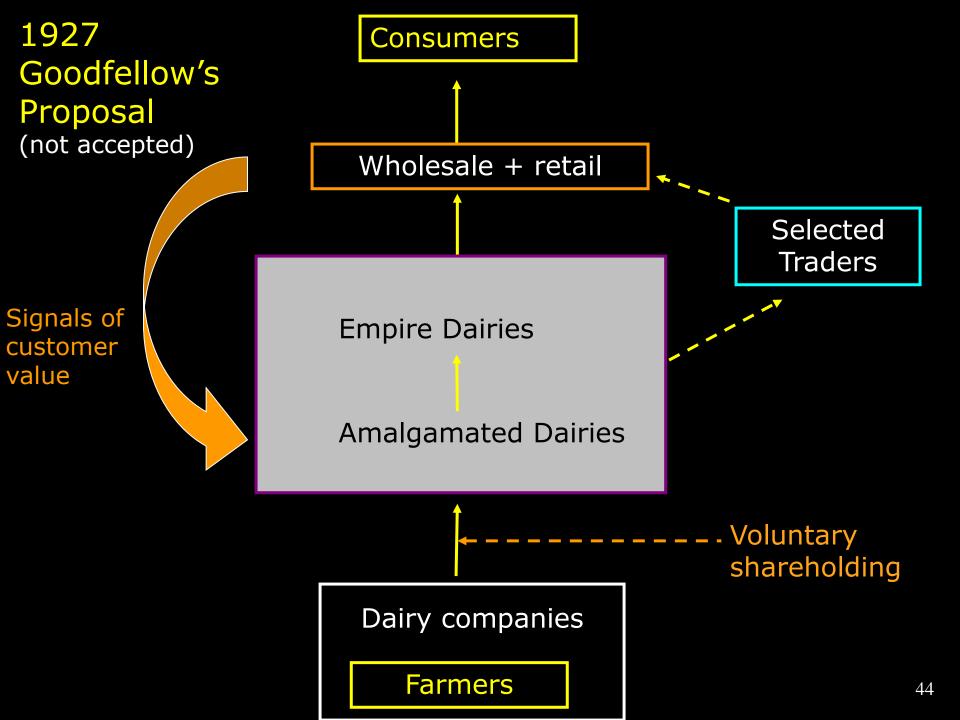
"Set prices that assure an efficient farmer of a sufficient net return to enable him to maintain himself and his family in a reasonable state of comfort." From the relevant legislation



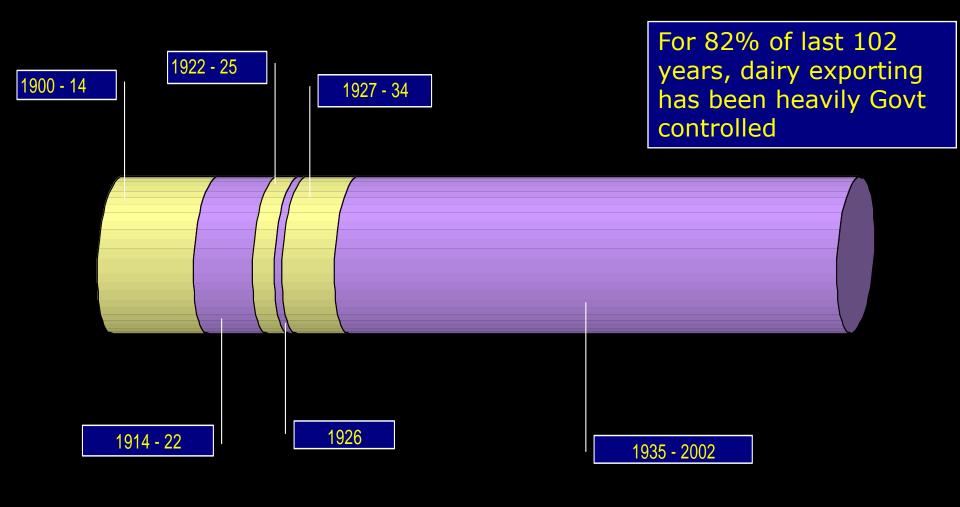








## Open v Restricted Exporting



# Industry's strategy

# Strategy

### Boost production

This was the principal focus for MAF (dairy division) until quite recently. Other measures included cheap govt loans, opening up Crown land for dairying, govt research funding and institutes, govt dairy advisers and govt prizes for achieving certain export targets

#### Lower costs

As above, but key factors were govt funded research and development, plus govt instructors and field advisers.

# Strategy (cont'd)

### Single exporter

Legislating co-ops, 'single desk' selling, price fixing and smoothing, grading and quality controls and new product development.

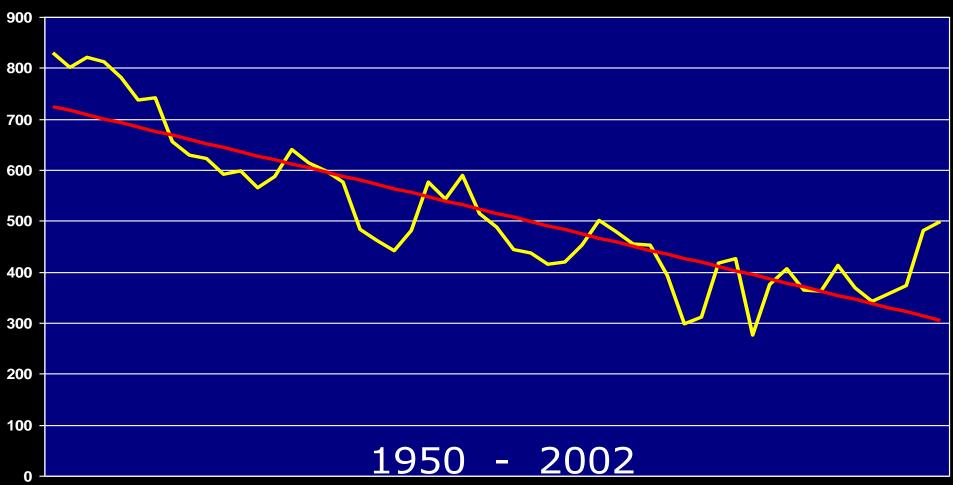
### Minimise internal competition

Many examples, including empowering the Board to 'zone' milk collection areas to eliminate 'pernicious' inter-factory competition.

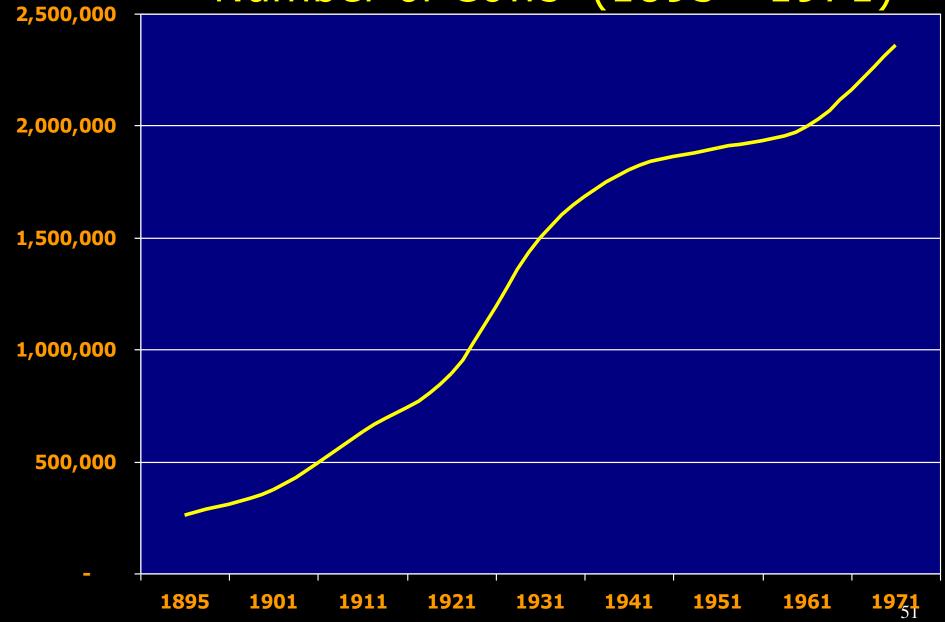
# Outcomes

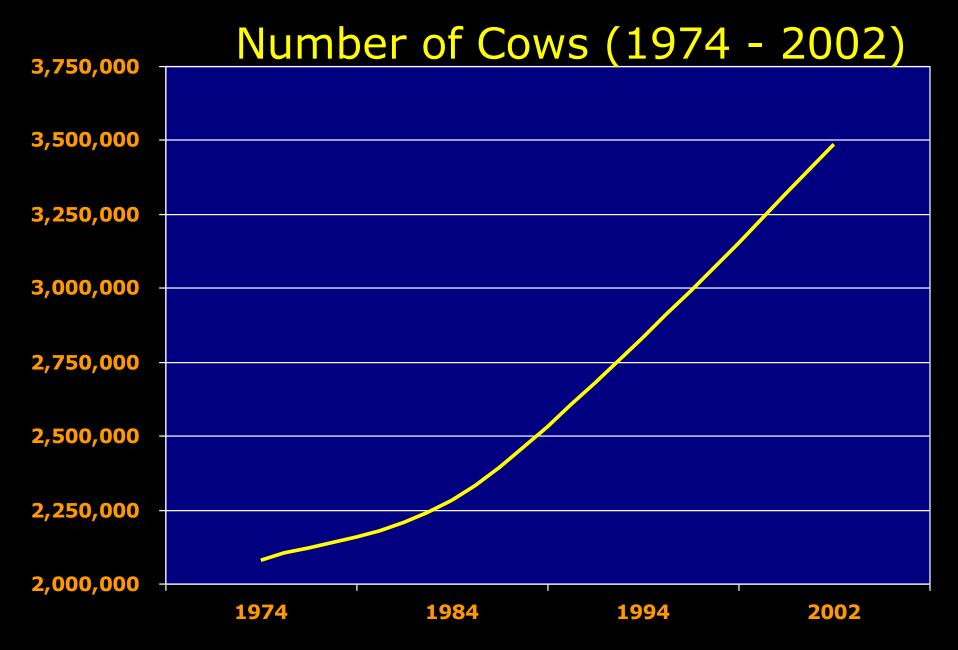
## Real return on milk production

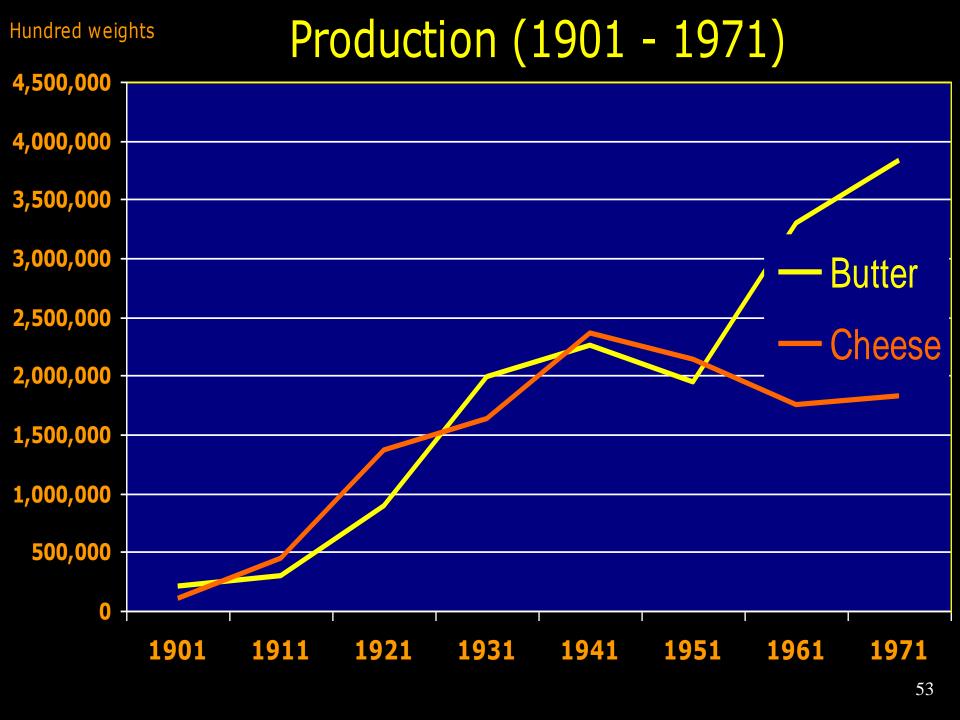
c/kg of milk solids



Number of Cows (1895 - 1971)

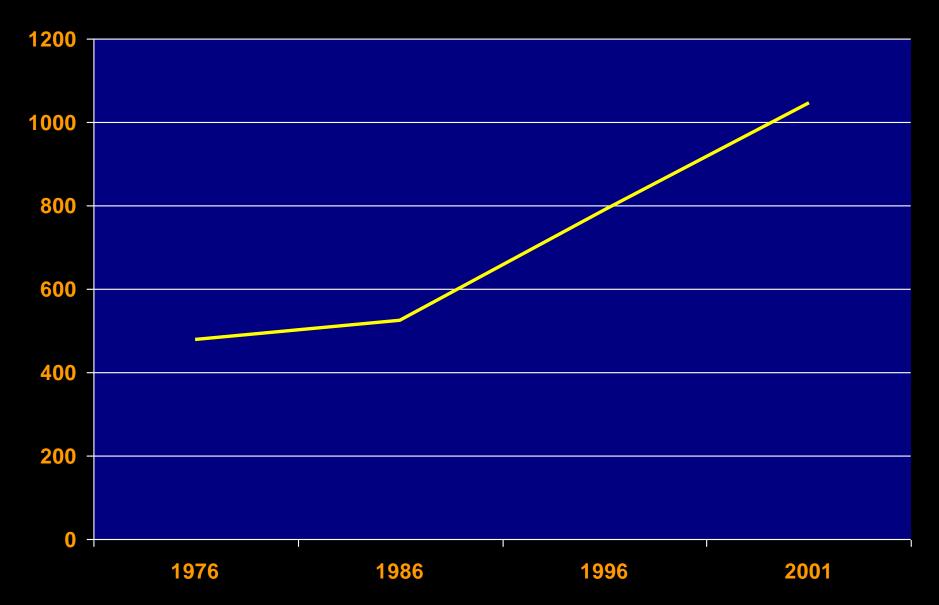


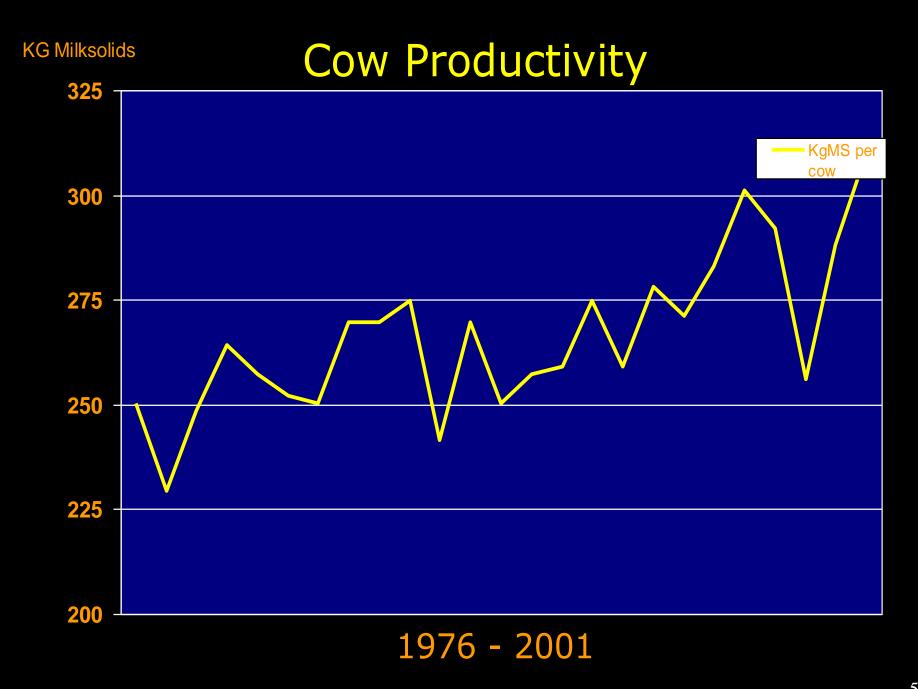




Kg Milk Solids

## Production (1976 - 2001)





### **Number of Dairy Cows**



# First 125 years: Positive outcomes

Strong farming skills + innovation

Established an important industry

Grown markets

# First 125 years: Negative outcomes

Lost wealth – poor returns on capital + innovation suppressed

 Poor skill-base – under-developed skills in business + marketing

 Unwise reliance on low production costs – threatened by genetics + overseas innovation

# 125 year strategy: Negative outcomes (cont'd)

 Inflexible assets – misallocated investment in large, inflexible plant

Lack of diversification – narrow product base

 Weak governance + political leadership – leadership is still afraid.

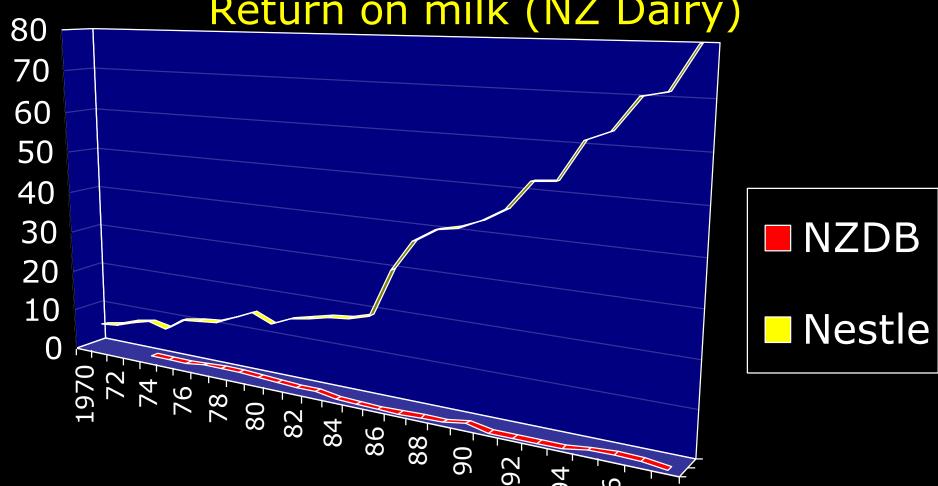
# 125 year strategy: Negative outcomes (cont'd)

- Misplaced 'faith' in pure co-operative pure producer co-ops do not work well in highly differentiated markets.
- White gold' myth F's job is to turn milk into cash. Belief that more profit comes from more milk. Not necessarily so
- Rights to wealth Those who produce raw milk are entitled to the lion's share of wealth created from milk. Not so.

# 125 year strategy: Negative outcomes (cont'd)

- Who the exporter serves Farmers expect F to serve them as producers. Should serve customers.
- Fixation with 'control' Farmers are not in 'control'. Blind to more efficient ways of gaining 'control'.
- Don't trust 'outsiders' "Farmers are unnecessarily suspicious of approaches from business interests" Arthur Ward

## Earnings per share (Nestle) v Return on milk (NZ Dairy)



94

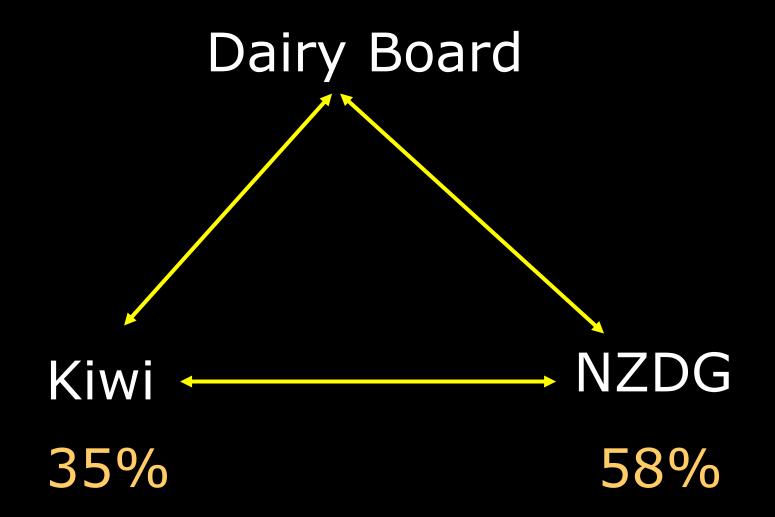
96

86

# Part 2: Mega-merger

- Race for Control
- McKinseys vs Commerce Commission
- Comparison of 1999 + 2001
- 2001 Negotiations
- 2001 Decision

# 1990-2000: Race for control



# Kiwi v NZDG v Dairy Board

Conflict of philosophies:

Co-operative v corporate

Single exporter v competing companies

Conflict of egos:

Spring v Storey

Larsen v Norgate

Van der Heyden v Gent

## Real economic problems

### • Inefficiency:

Weak pricing

Inefficient production

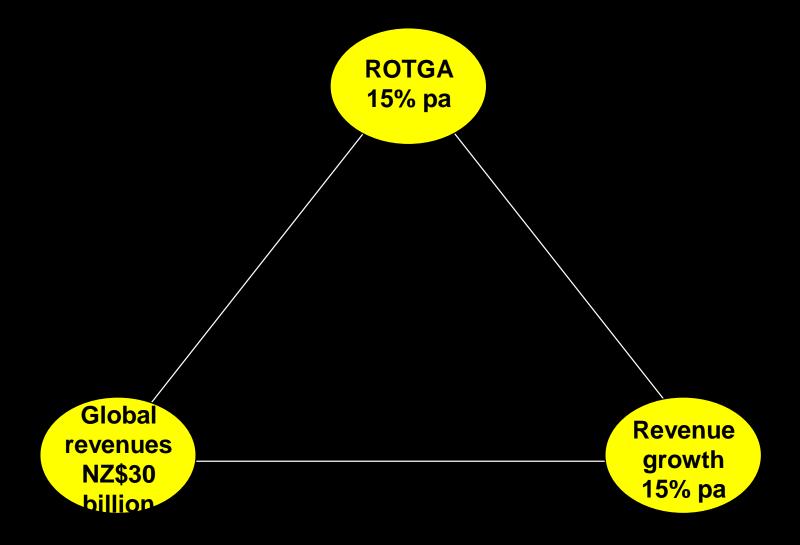
Inefficient investment

### Poor Governance:

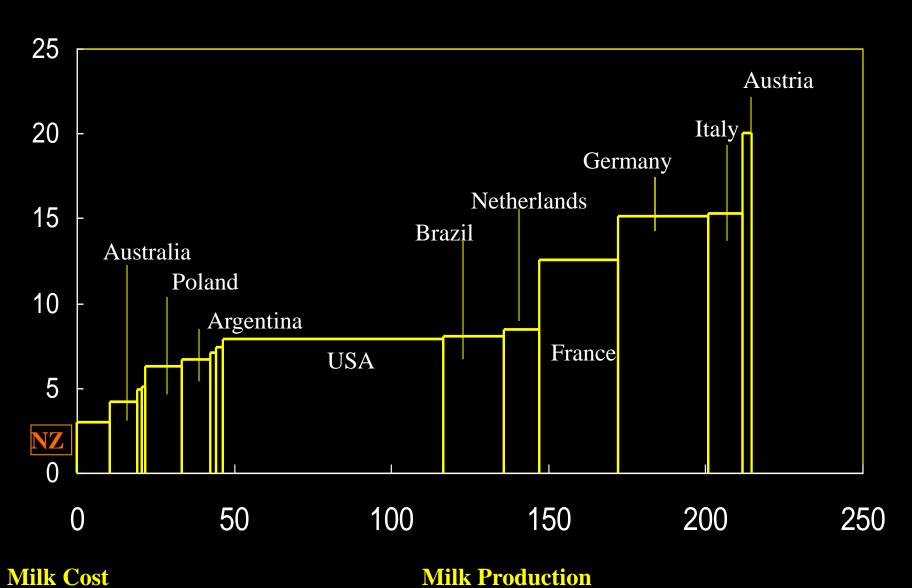
Management control of Dairy Board + Kiwi Cap on director numbers at Dairy Board (5/13)

# McKinsey advice

## 10 Year Financial Aspiration



## Global Dairy Industry Curve



Milk Cost

Million Tonnes

\$NZ/kg Milk Solids

If the US industry were to double its rate of unit cost improvements through biotech while we do nothing, it will have destroyed \$5bn of value for NZDI after 5 years

### **McKinseys**

NZ unit cash costs rising at 2.3% pa

US unit cash costs falling 1.8% pa

### **Growth Horizons**

**Profit** 

**Horizon 2** 

Build emerging businesses

Horizon 3
Create viable options

- Industry biotechnology agenda
- Risk management services

Extend and defend core businesses

**Horizon 1** 

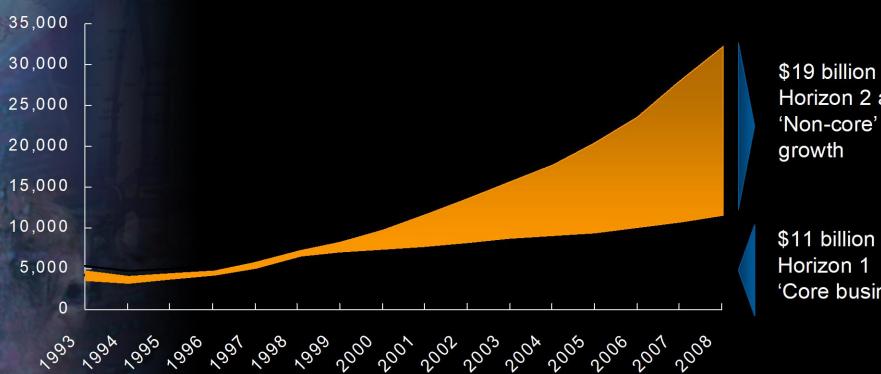
- Industry Milks strategy
- 'Global slivers' in specialised ingredients
- Leverage our ingredients network beyond NZ Dairy
- Defend and exploit core low cost position
- Earn the right to grow

Time

#### **REVENUE GROWTH**

\$ Millions





Horizon 2 and 3

\$11 billion from 'Core business'

#### GLOBAL SLIVERS IN SPECIALISED INGREDIENTS

### Build our niche positions into global 'slivers' by. . .

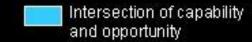
# Focusing on the most attractive products . . .

- Alamin
- Protein hydrolysates
- Colostrum products
- Functional minor components
- ... that don't cannibalise our existing sales and have consumer noticeable functionality

# Leveraging existing capabilities . . .

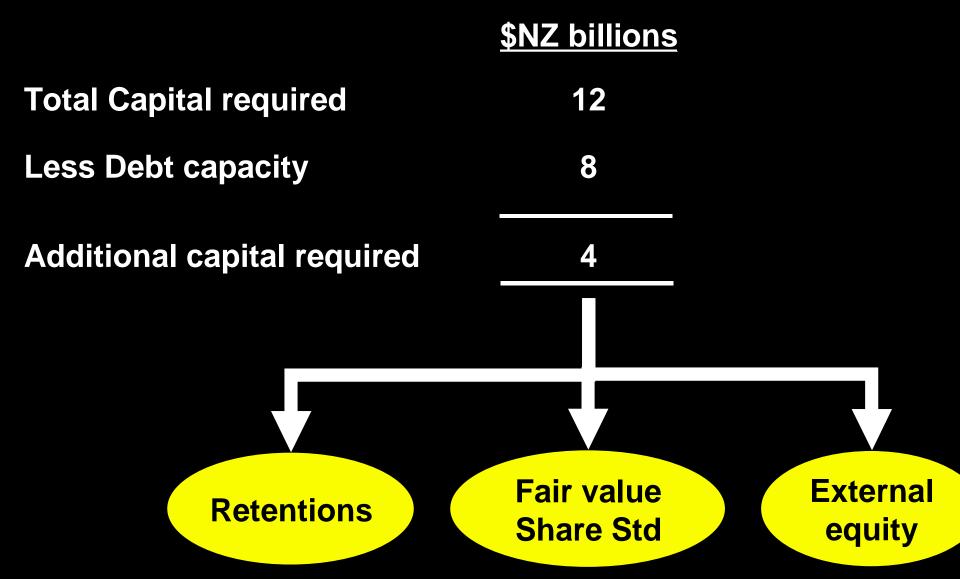
- Clearer focus and investment in new product development
- Sharper customer insight
- Access to non-NZ milk
- Use other Dairy companies as residuals

### SPECIALISED INGREDIENTS FOCUS FOR FUTURE INVESTMENT



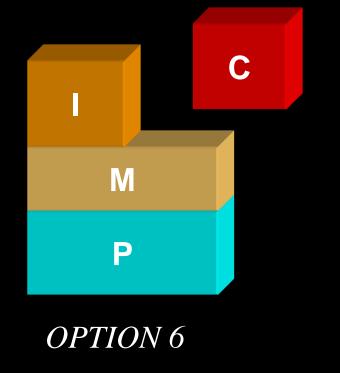
	Consumer noticeable			Not consumer noticeable		
	Nutritional	Flavour	Clarity	Yield	Film	Emulsificatio
Casein	TMP, Casein phospho- peptide		High clarity acid casein	MPC, Alapro 4850	Acid casein	Calcium caseinates
Whey	Alamin, WGC, WPI, Hydrolysate	Alacen 845	WPI	Surimi plus		
SMP		Caramelised milk powders				
ВМР						
Cheese		Cheese Pastes		Egmont cheese		

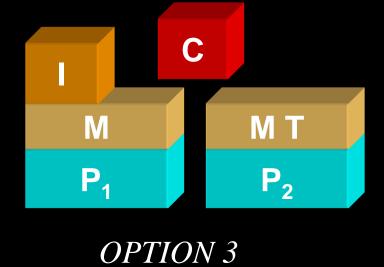
### **FINANCIAL CAPACITY**

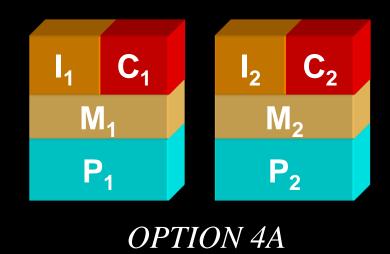


### **SUPPLY CHAIN STRUCTURE - SIMPLIFIED**

**Merchant Farm Processor Trading Ingredients** Consumer







### **CAPITAL / OWNERSHIP QUESTIONS**

External /
Internal
equity

 Do we need to structure parts of the business to provide for external equity?

Yes

No

Yes

Corporate vs co-operative

 Should the Industry maintain a co-operative ownership structure for all parts of the business?

Ownership Linked/ Delinked to Supply

 Should returns from downstream investments be delinked from supply?

Differentiated/ Uniform Payout Should the Industry have the ability to differentiate payout?

Current No\*

<sup>\*</sup> Constitutional change required

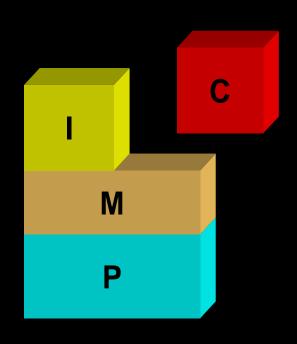
# **ECONOMIES OF SCALE BENEFITS: MANUFACTURING**\$ millions annual savings

One Company Two large companies

Total synergies 50 - 80 35 - 55

Difference between one and two large manufacturers is \$15-25 million pa

# **OPTION 6**



Consumer separate subsidiary.

Single company for processing, merchanting and ingredients

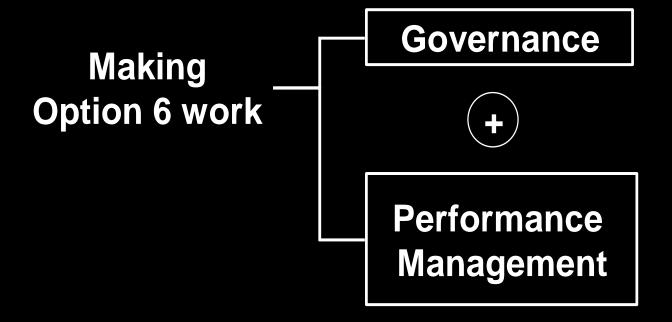
#### **SUMMARY**

Option 6 is preferable to a pure Option 3 by \$800 million if x-inefficiency can be eliminated

Otherwise a pure Option 3 is preferable to Option 6 by \$300 million if breakdown of Option 3 can be prevented

We believe that the x-inefficiency can be managed under Option 6

### **MAKING OPTION 6 WORK**



#### **EFFECTIVE PERFORMANCE MANAGEMENT**

### **Challenges**

- No transparent milk price
- Administered product prices

### **Principles**

Replicate the market

### <u>Solution</u>

- Single independently administered NZ milk price
- Arms length based transfer prices

- "Big company"
- Diverse and complex

- Provide farmer choice
- Organise around small performance cells

- Separate off areas of business specalisation
- Accountable, autonomous performance cells
- Aggressive targets

# Comparion of 1999 and 2001 merger proposals

FEATURE	2001	1999
Goal: to grow sales to \$30 billion in 10 years	Yes	Yes
Goal: to save \$300m pa	Yes	Yes
Merge Dairy Board, Kiwi and NZ Dairy Group into one mega co-operative	Yes	Yes
Deregulation in 12 months	Yes	Yes

Commerce Commission approval required	No	Yes
Sell 50% of NZ Dairy Foods	Yes	Yes
\$15 billion of new capital	?	Yes
An extra \$4 billion of new share capital from non-farmers	Promoters now say no	Yes
Separate 'A' shares for manufacturing + exporting of NZ milk	No	Yes

Separate quota shares ('Q' shares) for farmers	No	Yes
Trading of 'A' shares among farmers within band of 80-120% of supply	No	Yes
Farmer choice to invest in new overseas consumer-market ventures	No	Yes
Separate vehicle to for new overseas consumer-market ventures	No	Yes
Relative simplicity of withdrawing capital	Lower	Higher

FEATURE	2001	1999
Avoid special Government regulations and regulator to oversee mega co-op	No	Yes
Requirement on mega co-op to sell milk to competitors	Yes	No
6 year phase-out for automatic holding of quota rights by mega Co-op	Yes	Yes
Farmer-owned Quota Company to hold and tender quota rights after 6 years	No	Yes

# McKinsey's claimed benefits

Previously identified (BDP/IEIS)	130
Integration of manufacturing	50
Interface simplication	30
'Catalytic event'	100
Total	\$ <u>310m</u>

# \$8b Merger

Industry claimed gains: \$180m

### Commerce Commission draft view:

Maximum gross gains: \$92m

Productive efficiency losses: -\$192

Dynamic efficiency losses: -\$500m

# 2000/01 Negotiations

# Change in people

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NZDG:
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Chairmen: 1998 – 2002

Spring → Storey → Leader → Van der Heyden

CEOs: 1998 - 2002

Footner → Milne → Spencer

### NZ Dairy Board:

Chairmen: 1998 - 2002

Spring → Storey → Fraser → Roadley → Van der Heyden

# Differences of philosophy

Pure co-op + single

exporter:

Spring

Roadley

Young

Gent

Booth

Bayliss

More corporate + competing

exporters:

Storey

Fraser

Calvert

Allison

Van der Heyden

Rattray

Townsend



# Kiwi Dairy

### **NZDG**

Single entity Two competing exporters (Project Eagle)

No outside directors Yes outside directors

Norgate as CEO ——— Someone else

No Corporate mechanisms

Equal value shares \to No

No NZDG control of Dairy Boa (58% control)

NZ Milk as co-op — Partial float

Wellington, Oct 13, 1998, NZPA - Retiring Dairy Board chairman Sir Dryden Spring today put the boot into the Government's plan for the deregulation of producer boards, describing it as a "gigantic economic hoax"

"Dairy Board chairman Sir Dryden Spring is adamant the industry...will remain farmer-owned and continue selling through a single marketer owned by the co-operatives following deregulation"

### Decision 2001

### In Brian Edward's biography -

PM comments that she "shot a line across officials" and gave directions that the legislation was to be prepared authorising the merger.

It appears that Dryden Spring was a key player

# Part 3: Changes

Nature of Fonterra

Four fundamentals

- Eight specifics
- Drivers of change

Fonterra is a structure in transition:

From serving producers and appearing their competing perceptions of fairness

To serving customers – to capture the value they put on different products and services

# Key changes needed

- Farmers need to receive from F real signals of how customers value their products
- Fonterra needs to receive from shareholders real signals of how they value Fonterra's performance.
- Farmers need to develop new skills to participate as shareholders, not just as producers
- Directors need to provide some real leadership

Volume + price - F would offer suppliers a choice of contracting options, eg -

- fixed volumes at fixed prices set in advance;
- no fixed volume at 'spot' prices; or
- part fixed, part open.

'Surplus milk' – F would pay the true marginal value of 'surplus' milk (ie it charges full costs for processing an extra unit of milk)

Dividends – Paid out to farmers as a separate dividend (esp NZ Milk)

Share value + monitoring - Make F's co-op shares are tradable among farmers within 80-120% of their supply

This would provide on-going (not just annual) and multiple (not just a single valuer's) signals to F of how shareholders value its performance. It would also significantly reduce F's current 'redemption risk', which is like a 'run on a bank', where farmers all at once want to cash up their F shares. To mitigate this risk, F has put in place a number of devices, including its option to redeem not with cash, but by issuing redeemable preference shares and capital notes. F has also imposed a tight window on when shares can be redeemed.

Value added business – Separate NZ Milk. Share tradable among farmers. Later open to outside investors (up to say 49%).

Board of directors – Reduced to nine as originally proposed.

The current number (13) is simply a carry over from the Dairy Board and (before that) the Dairy Products Marketing Commission (since around 1947)

Diversify beyond milk – Use skills and some risk capital to capture margins in new markets

#### F reduce market share in NZ -

Sell down enough of F's business in NZ (10 – 15%) to end restrictions of Government regulations.

Gains from maintaining a near-monopoly in NZ, particularly in processing raw milk, are unlikely to outweigh the costs.

Between 1890 and 1920, the market for processing raw milk was highly competitive in NZ. The 'co-operative culture' viewed this competition as 'pernicious' as some co-operatives failed.

Introducing a competitive environment is likely to boost F's performance, to the benefit of farmer-shareholders.

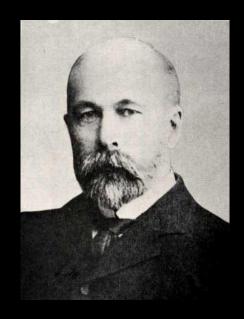
# Drivers of change

 Consumer competition – need to be more customer driven and less capital constrained

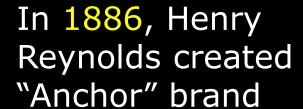
 Supplier expectations – 'big' vs 'small', and generational change

Over time, pressure will grow for crosssubsidies to be removed, leading to user-pays transport costs, fixed collection fees and regional milk payouts

# "The story of two Henrys"



Henry Reynolds





Henry Nestle

In 1867, Henry Nestle created "Nestle" brand

Two different paths, two different strategies. How did each business fare?



Henri Nestle was a merchant and small-scale inventor.

1867: Invented the world's first solid infant formula using Swiss milk

1905: Moved into condensed milk

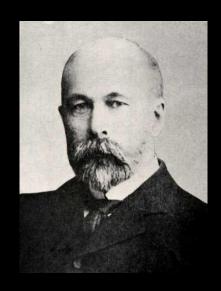
1929: Moved into chocolate ('Nestle')

1930s: Moved into coffee ('Nescafe')

Not coffee (beans) the commodity. Nestle created freeze dried and granulated instant coffee.

1947: Purchased Maggie

1963: Purchased frozen food giant Findus



Henri Reynolds was a businessman.

1896: Sold factories to NZ Dairy Association

[ ]: Merged to form the 'Big Octopus' – NZ Cooperative Dairy Company

'Anchor' brand remained tied to one key product – NZ butter in England

# Conclusion

- Industry founders' shared goal was to be 'free men'. Not servile or afraid
- The goal has not been achieved
- The key is thinking with a 'free mind'. Look outside the box

www.baldwin.org.nz