

WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

Future for the whey products market from a whey processor's perspective



#### Tage Affertsholt, 3A Business Consulting



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#### Introduction

Whey market overview

Lactose market overview

Market and industry dynamics



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### 3 simple strategic questions for a whey processor

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## What

- Customer functions / customer needs
- Functional properties
- Nutritional properties

#### How

Technology / organisational competences

ProcessingApplication

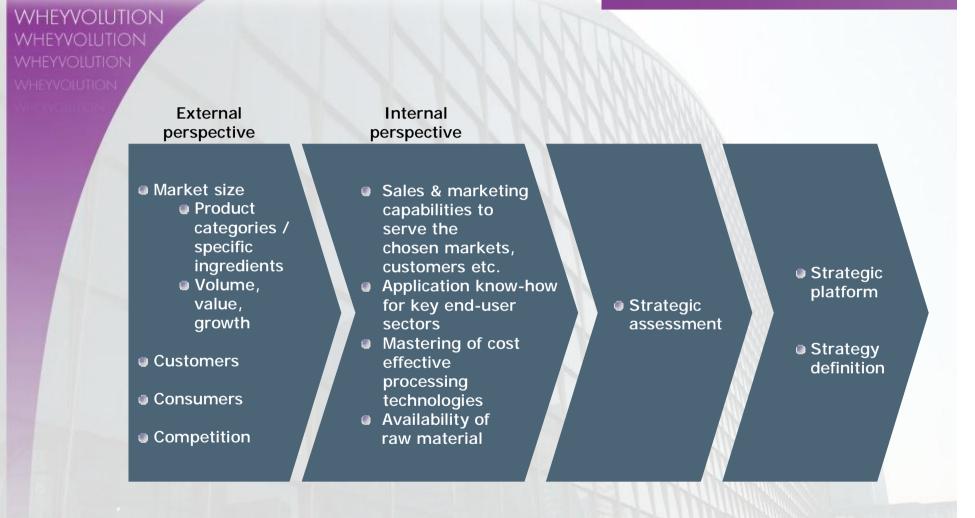
Customer groups / segments

Who

- Dairy, bakery, confectionery etc.
- Infant formula, clinical nutrition etc.



### Key analytical steps in developing a whey processor's strategy



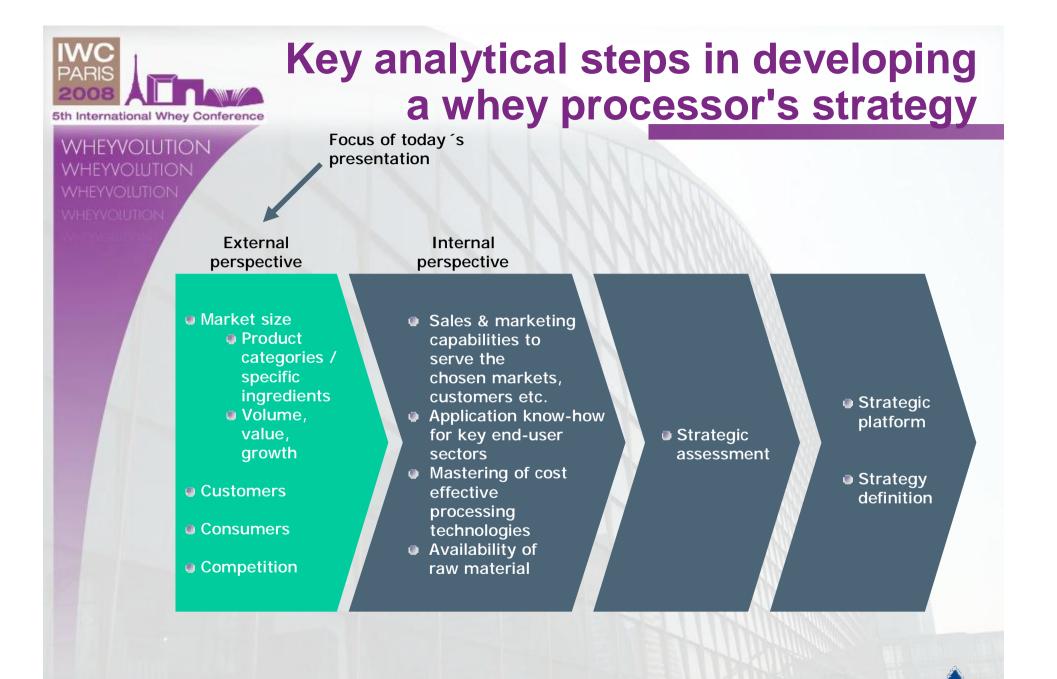
IWC

PARIS

2008

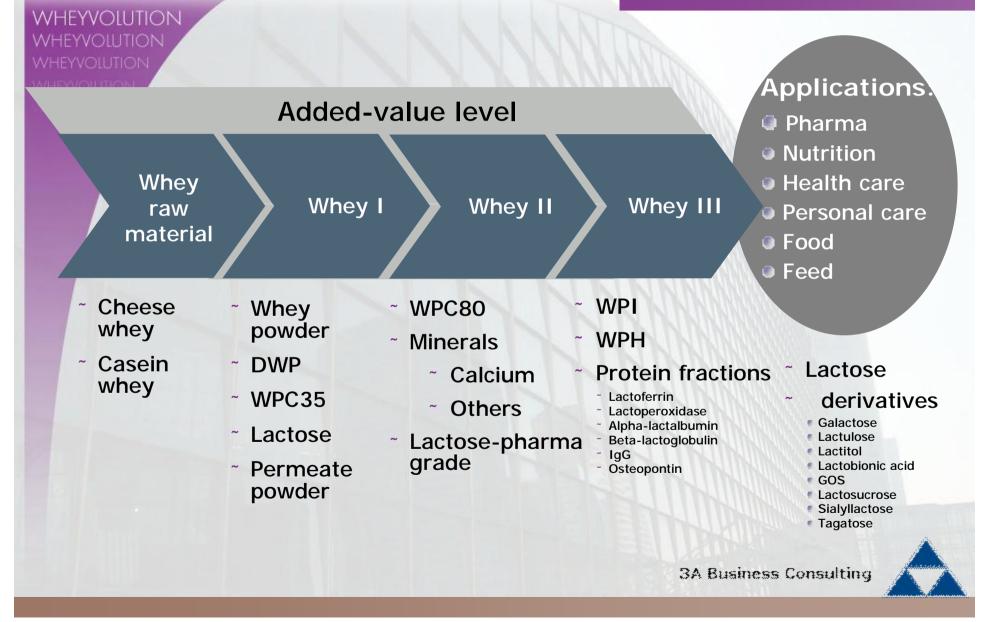
5th International Whey Conference







### Whey products universe





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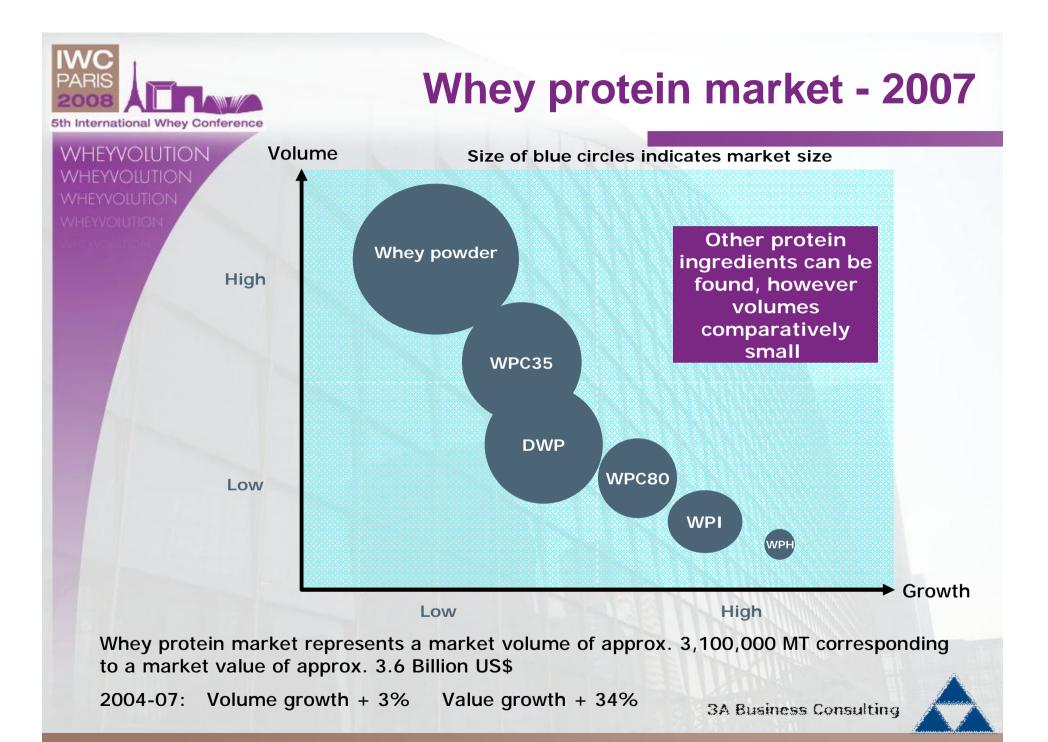
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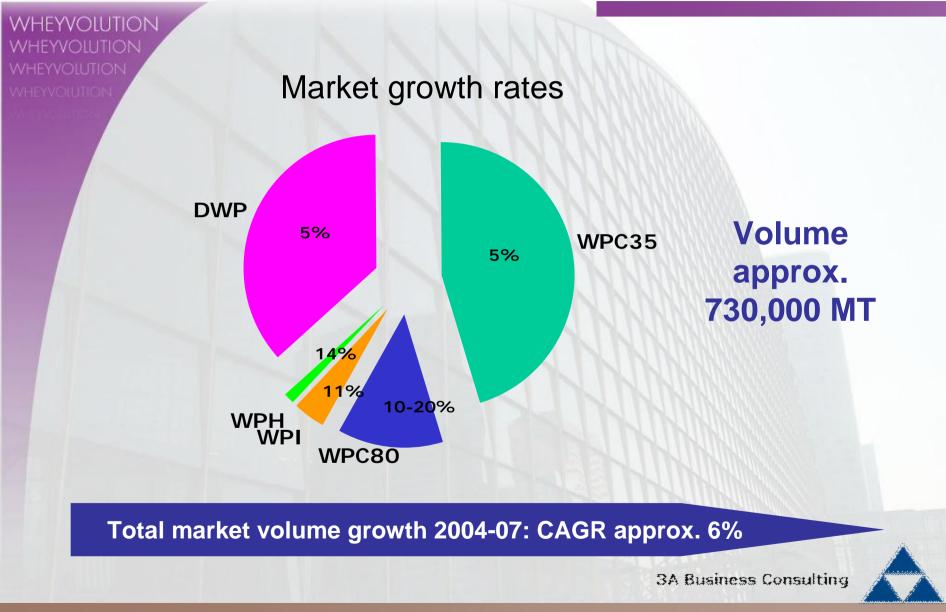
Market and industry dynamics

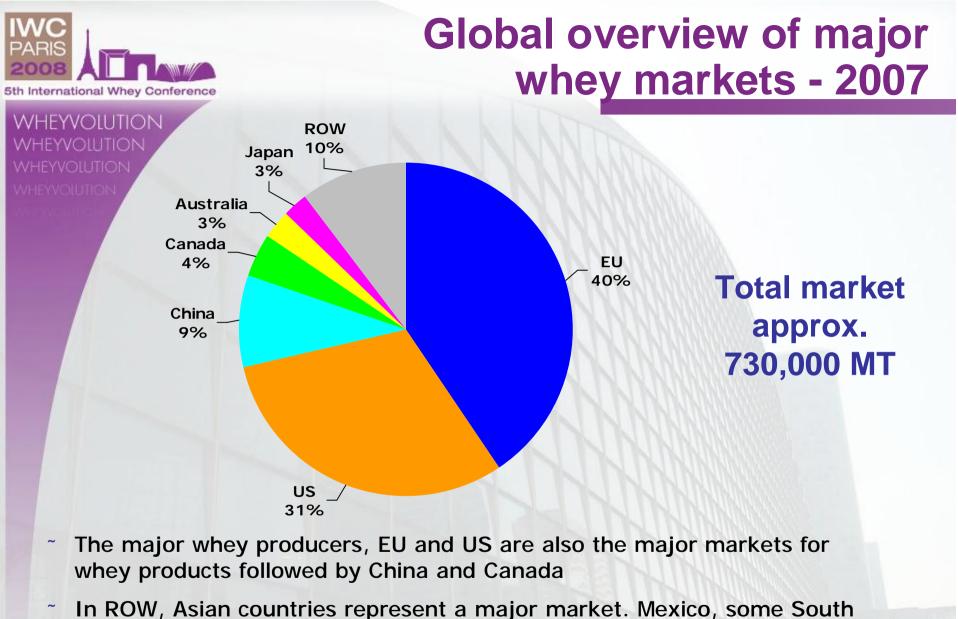






## Global overview of DWP / WPC / WPI / WPH - 2007





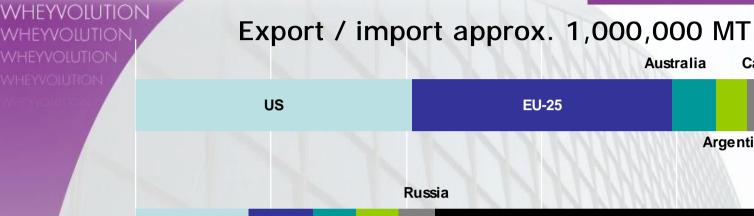
American countries as well as Russia are clearly emerging markets

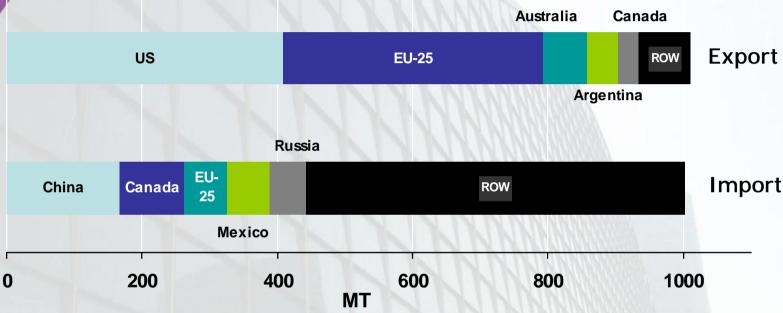
Note: Global overview of major whey markets includes the following products: DWP, WPC35, WPC80, WPI and WPH 3A Business Consulting



### **Global whey trade** volume overview - 2007







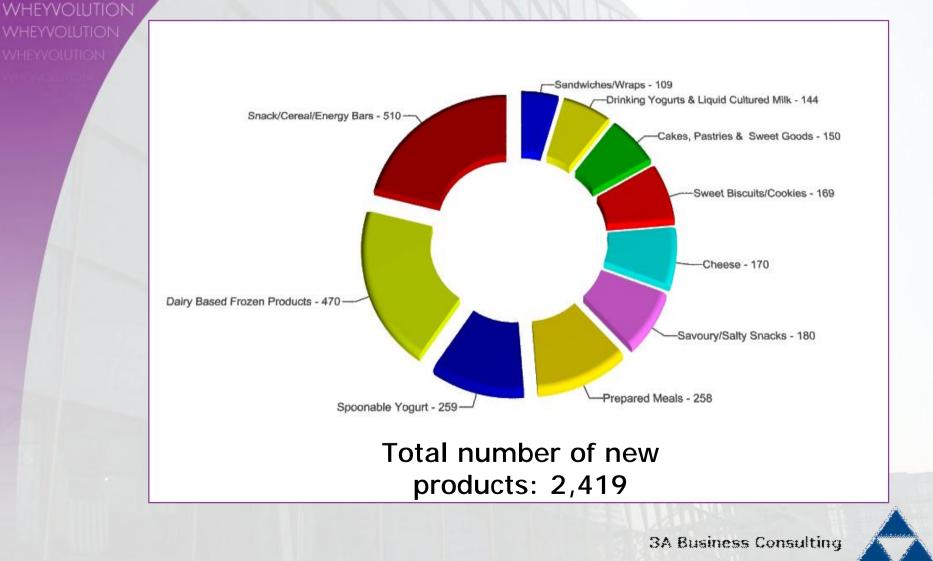
- Whey trade has grown from approx. 700,000 MT in 2003 to more than 1,000,000 MT in 2007 with US and EU as the key exporters of whey products accounting for approx. 80% of global trade
- In general, global whey trade is characterised by large export from the West to the East including China and emerging markets such as Mexico and Russia
- In the East Japan, Korea, Thailand and Indonesia are major whey importers

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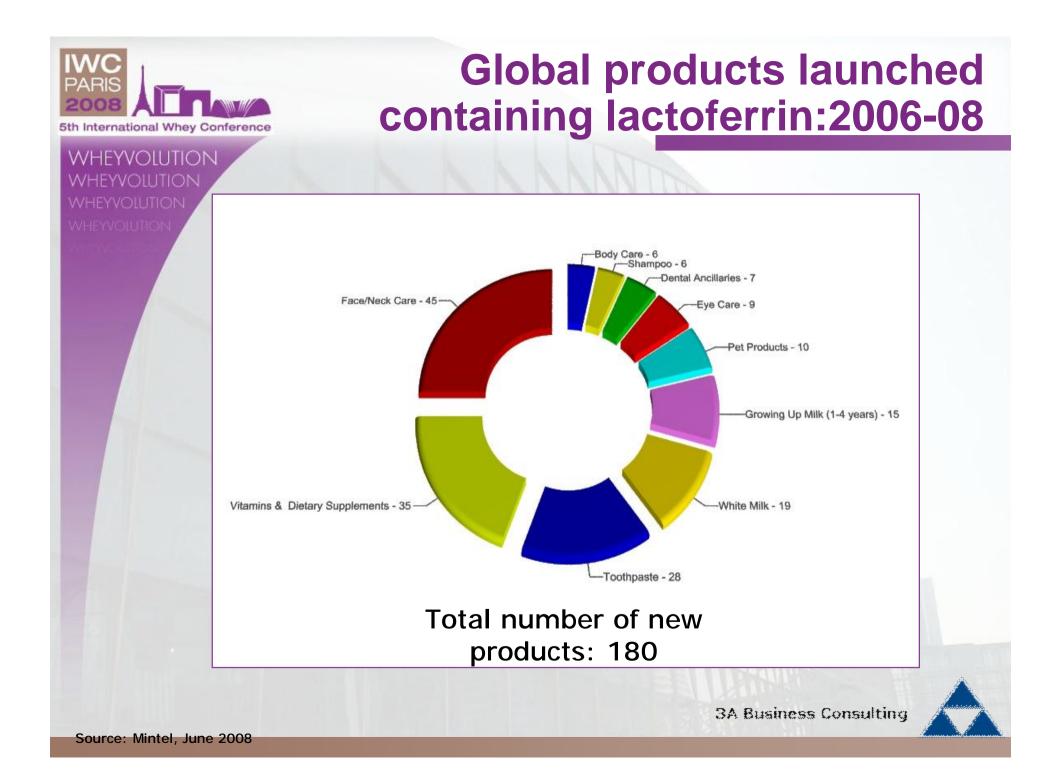


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## Global products launched containing WPC: 2006-08

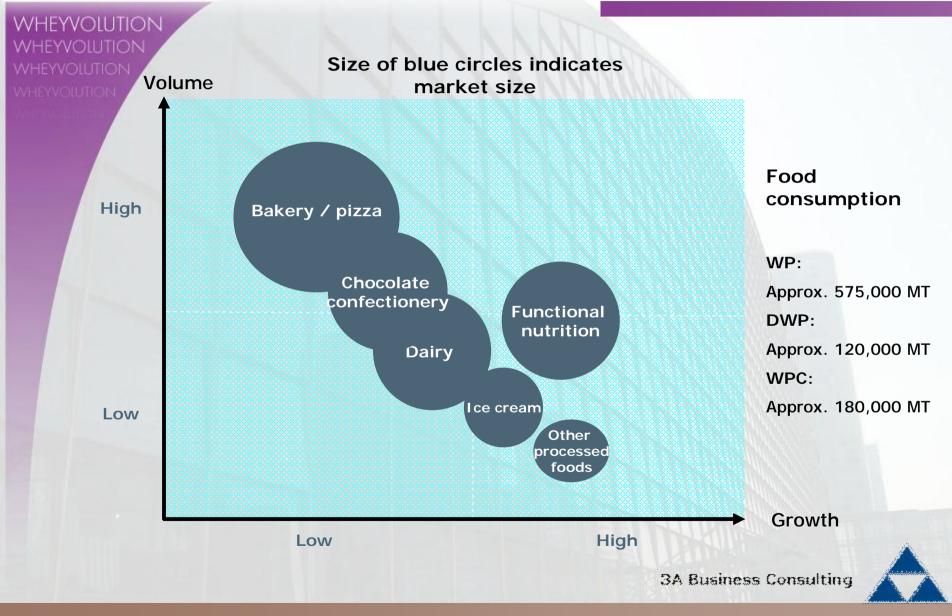


Source: Mintel, June 2008



#### **EU example: Usage of whey powder, DWP** and WPC in major end-use sectors **5th International Whey Conference**

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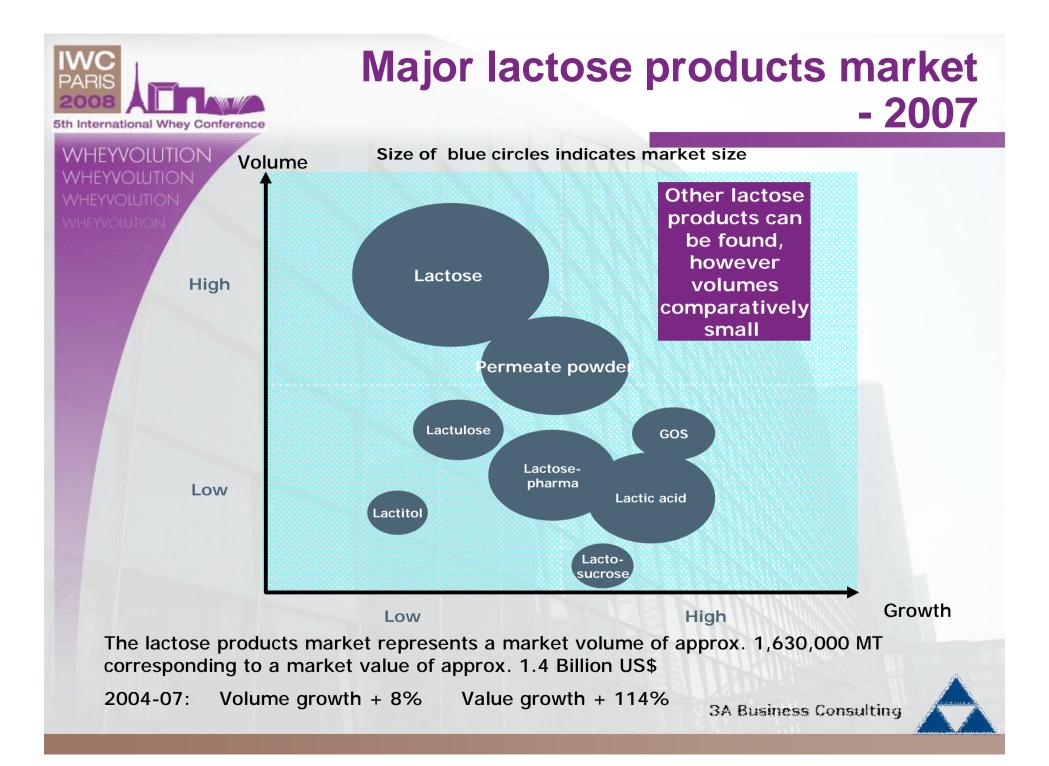
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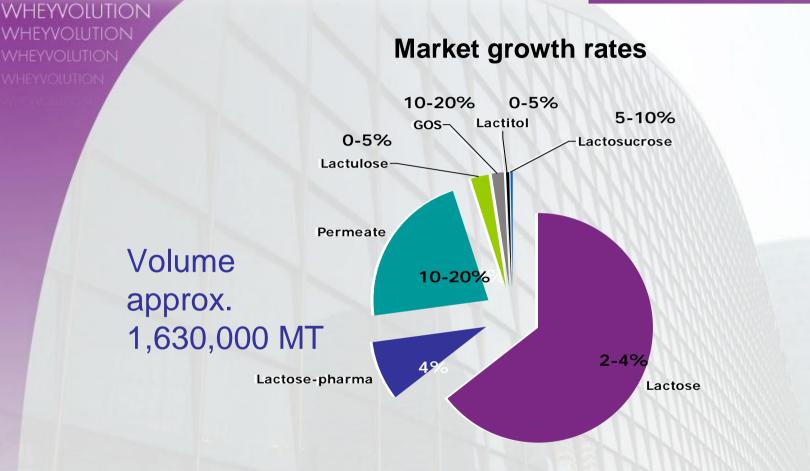
Market and industry dynamics







## Lactose/permeate and derivatives overview 2007



#### Total market volume growth 2004-07: CAGR 8%

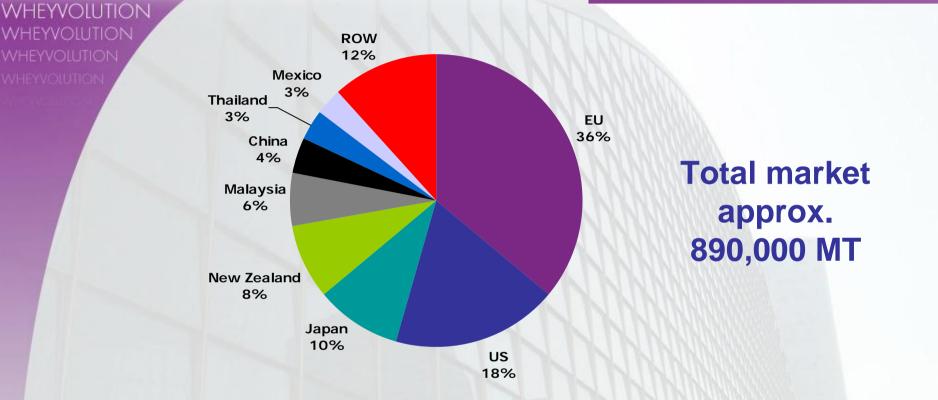
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# Global overview of major lactose markets in 2007



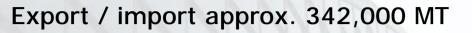
- EU is the biggest lactose market in the world with more than a third of the world lactose consumption followed by US
- Asian countries such as Japan, Malaysia, China and Thailand are among the larger lactose markets with lactose consumption from 30 – 90,000 MT per country. Emerging markets are found in South America

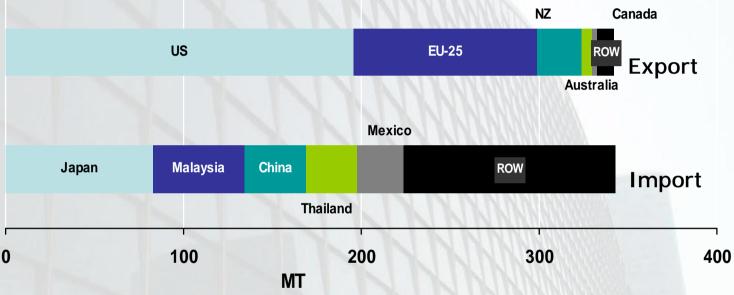
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# Global lactose trade volume overview - 2007





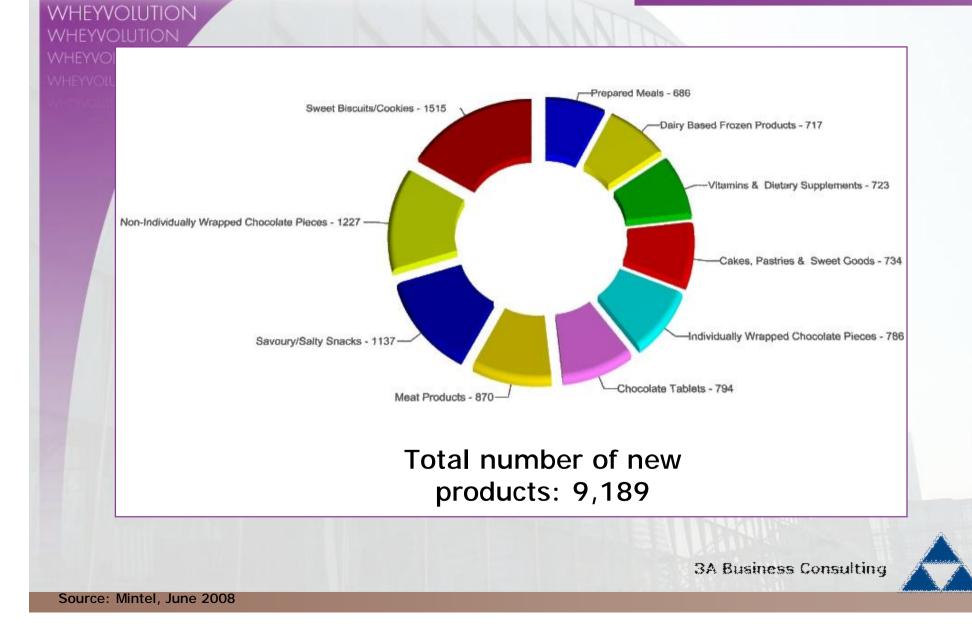




- World lactose trade expands steadily. From 2004 to 2007, lactose trade has grown from 256,000 MT in 2004 to 342,000 MT in 2007 corresponding to a 8-10% growth rate annually with US and EU-25 as the leading lactose exporters
- Lactose is mainly imported by Asian and South American countries. Japan is a key importer with more than 80,000 MT followed by Malaysia and China

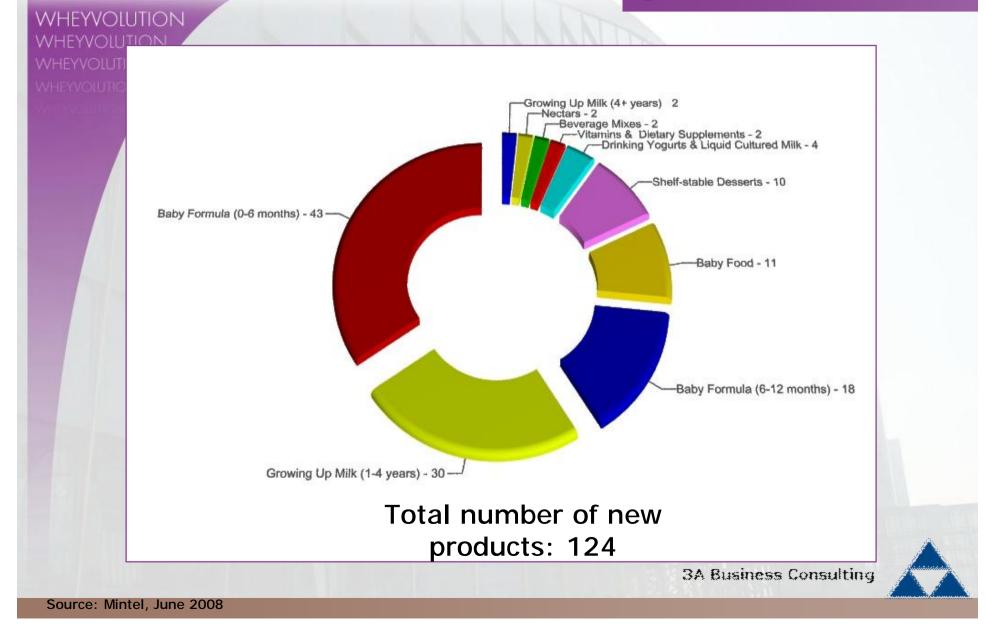


# Global products launched containing lactose: 2006-08



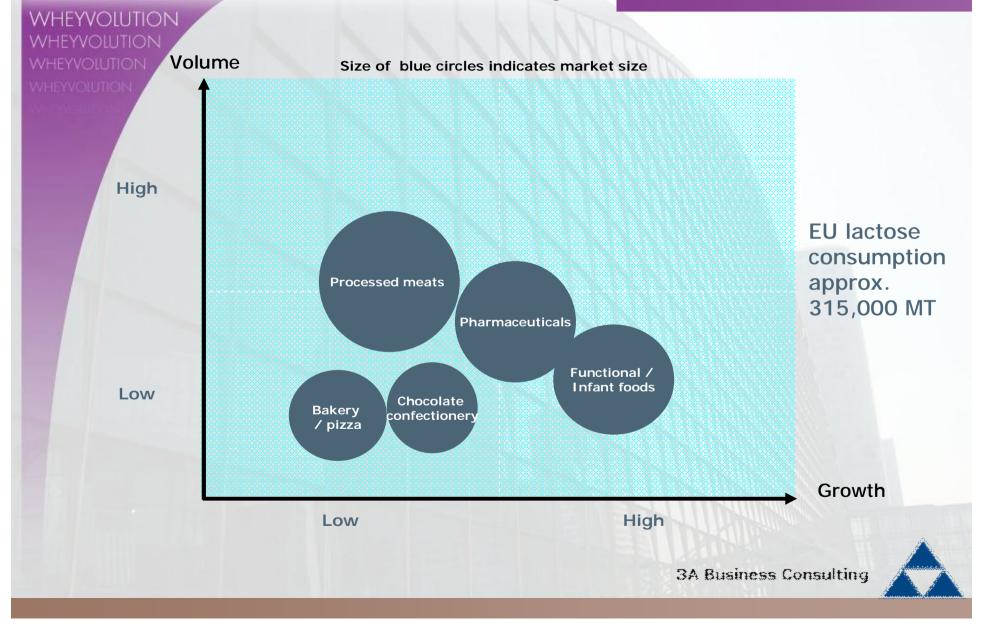


## Global products launched containing GOS: 2006-08





### EU example: Usage of lactose in major <u>end-use sectors</u>





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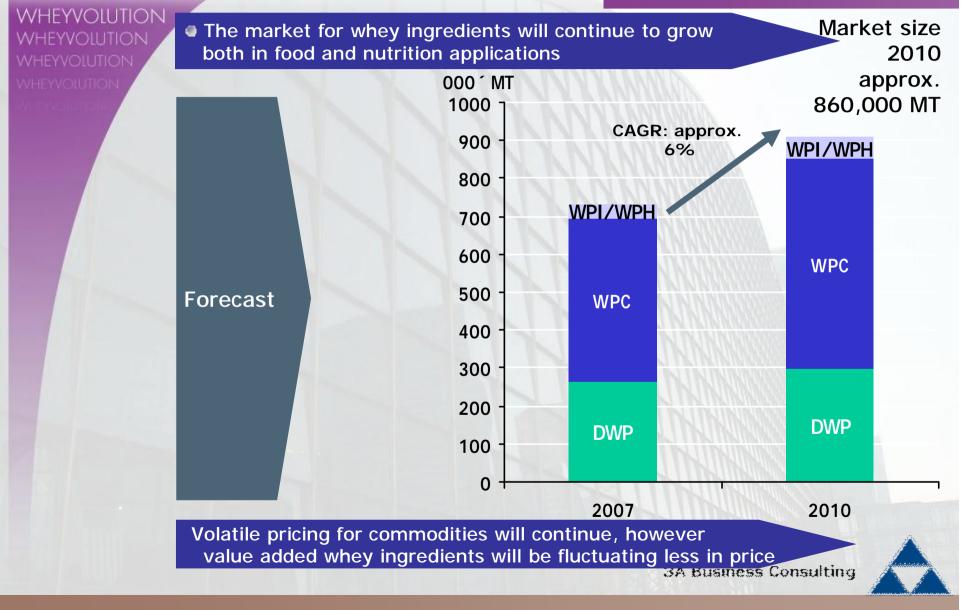
Lactose market overview

Market and industry dynamics

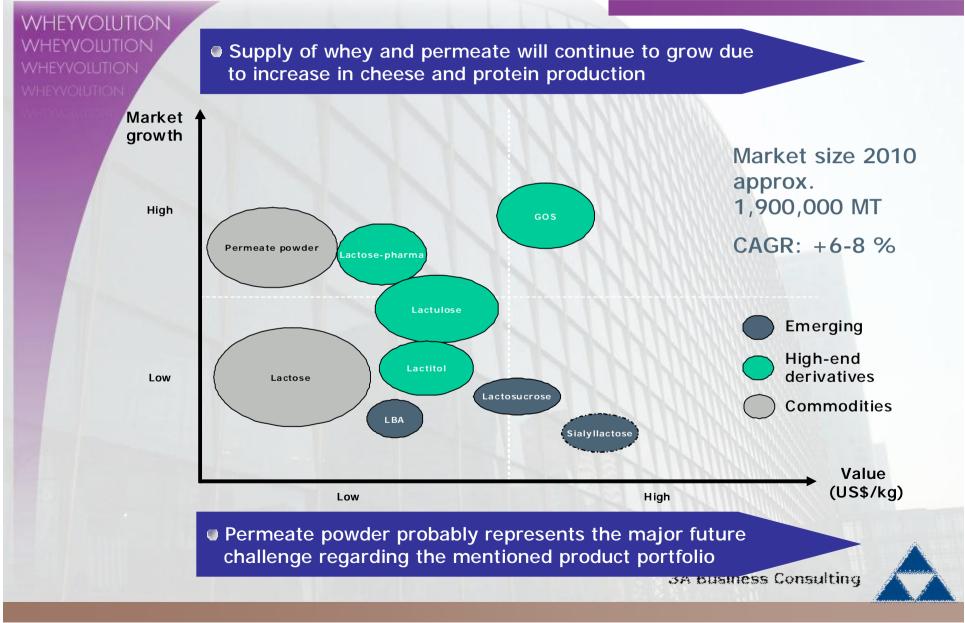


## THE International Whey Conference

# Future demand and supply dynamics 2007-2010



## Growth opportunities ahead for lactose, permeate and derivatives 2007-2010



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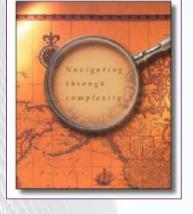


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## **Future industry challenges**

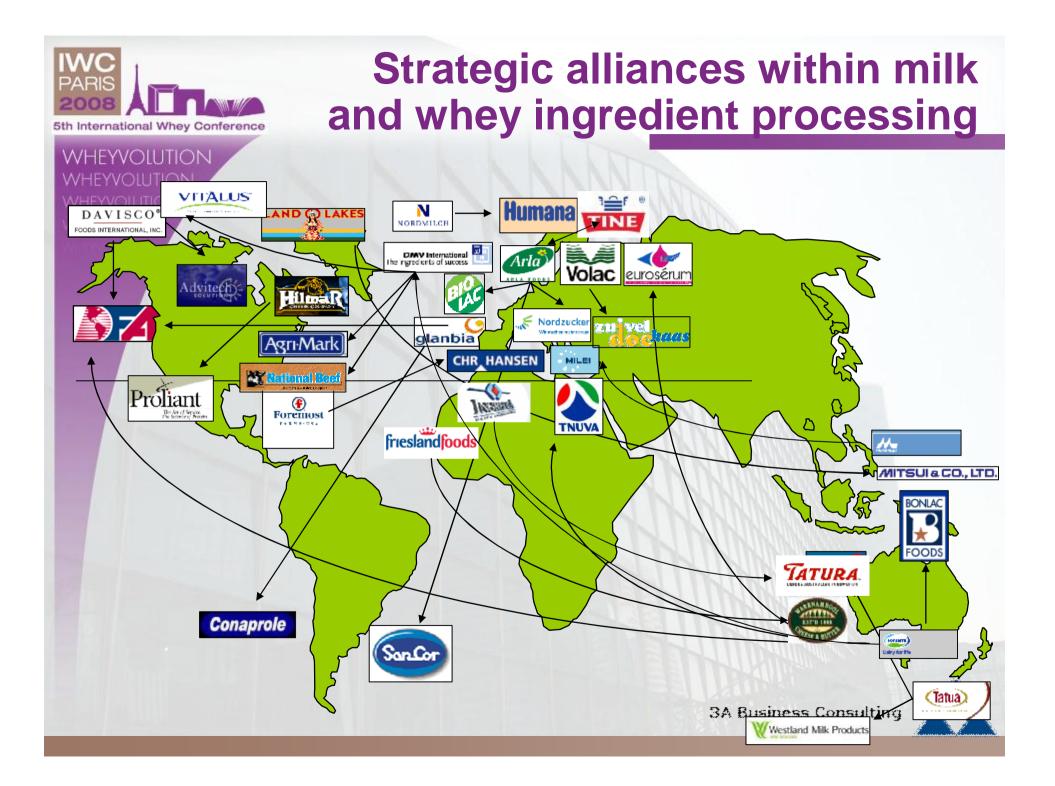
 Many ingredient businesses are global and have reached a high level of consolidation – the dairy ingredient industry will need further consolidation

Industry challenges Delicate balance between economies of scale (commodities) and a specialised portfolio (added-value products) adds to organisational complexity



 Forming strategic alliances is perhaps one of the answers ...





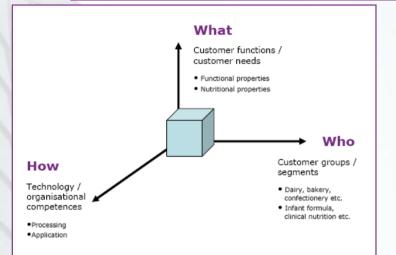
### **Choose your own strategic path**

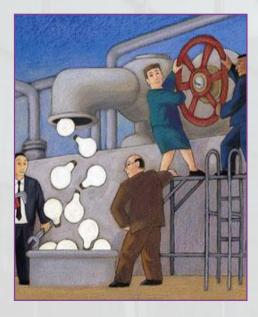
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The strategic answer to the whey processor may be more complex than the 3 simple questions – remember imitation equals commoditization





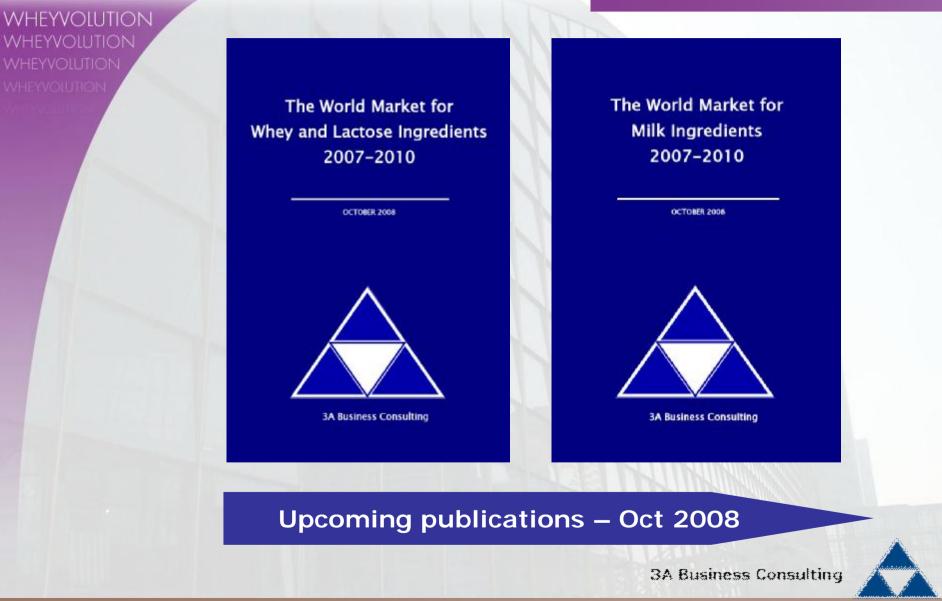
"INNOVATION is recognised as the single most important ingredient in any modern economy"

The Economist



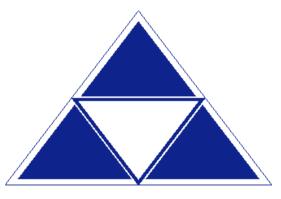


### **3A multi-client reports**





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#### Thanks - ta@3abc.dk



## New whey derivative launched on the Danish market – Cheers!

Denmark



Gundestrup Dairy and Brewery – a beer made from whey 3A Business Consulting



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