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## How health needs may create new markets for whey products in China?

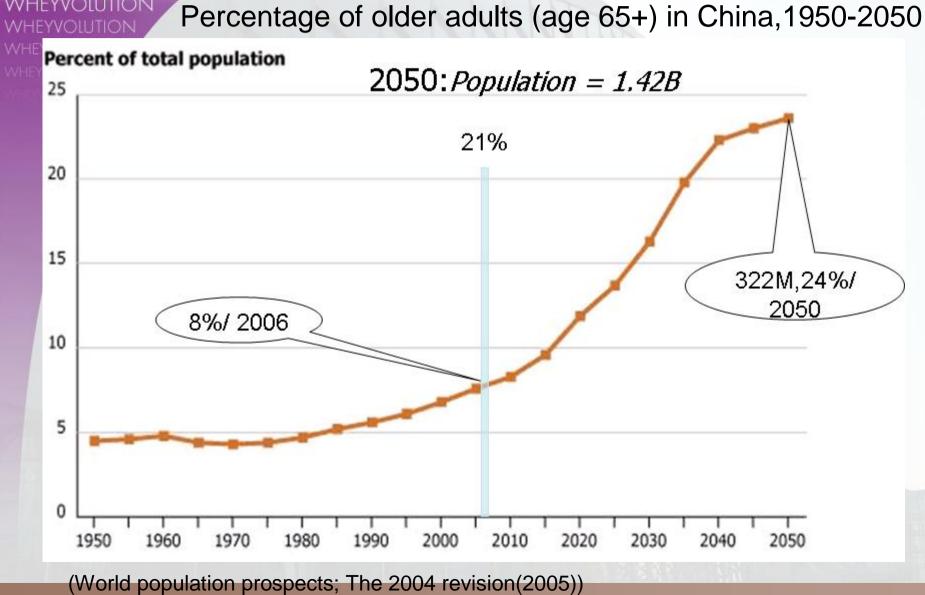
### ----Chen Lijun, Dr. Prof. VGM Beijing Sanyuan Foods Co.,Ltd.



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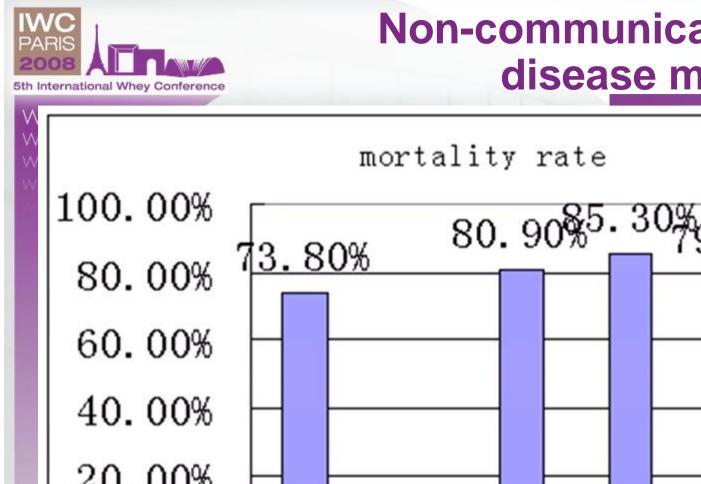
### **Chinese health and wellness**

# **Aging Population Increasing**

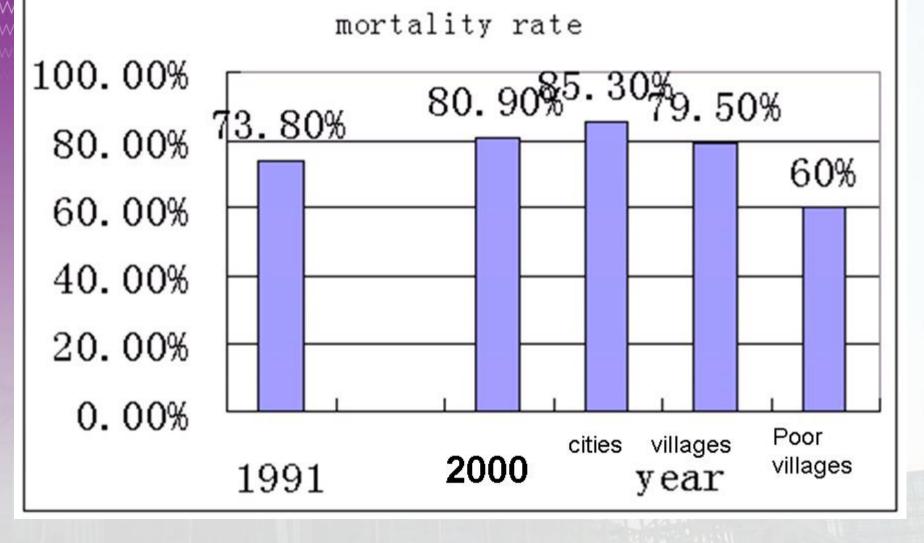


5th International Whey Conference

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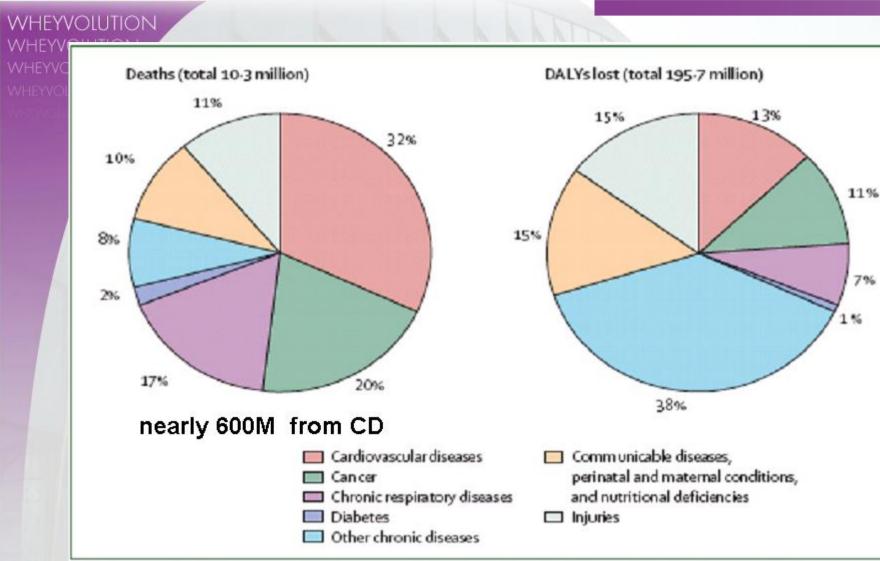


#### **Non-communicable chronic** disease mortality rate



Report on chronic disease in China. CDC 2006.5

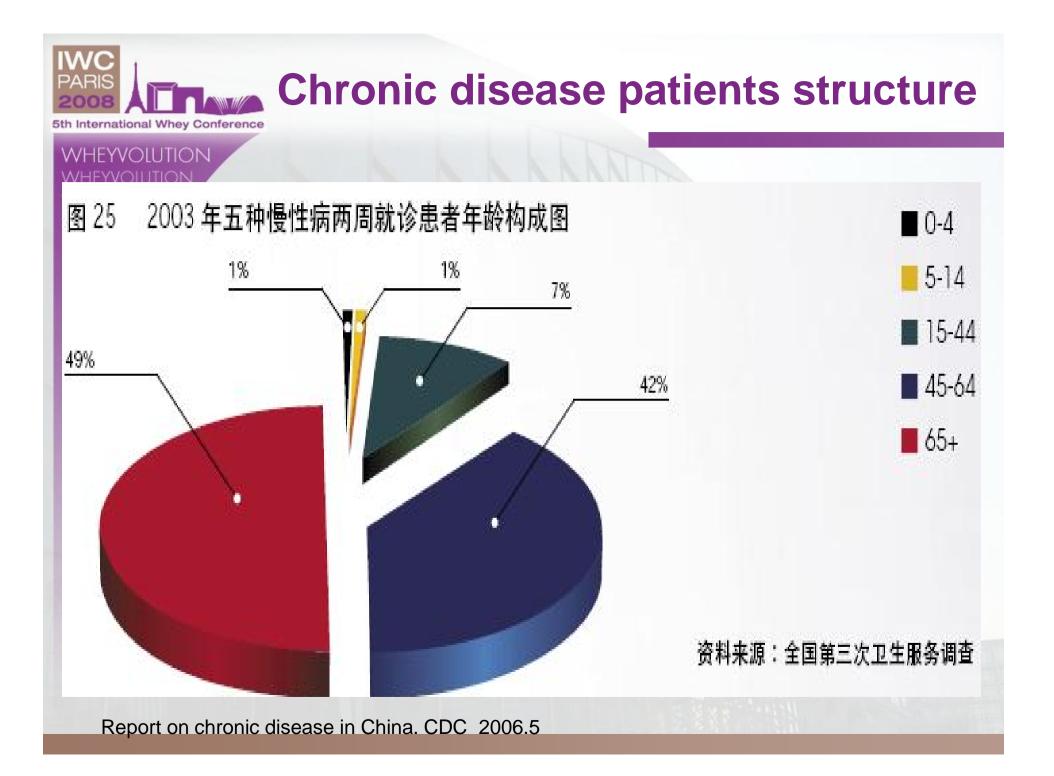
#### Estimated proportions of total deaths and **DALYs lost for all ages in China, 2005 5th International Whey Conference**

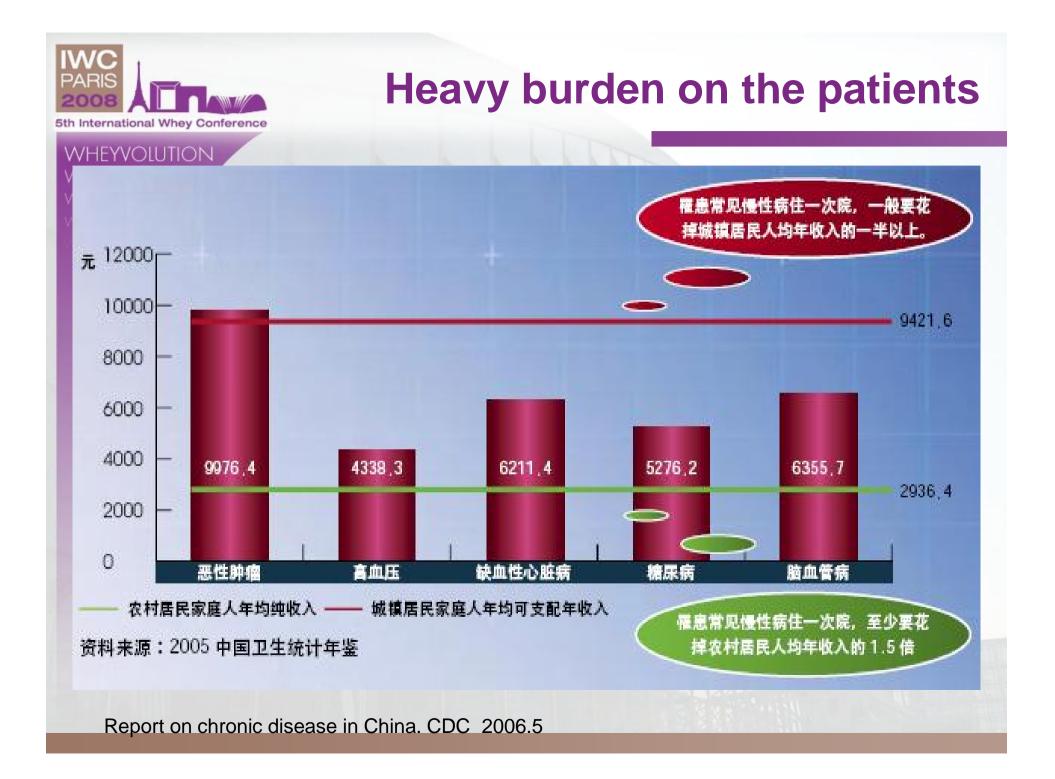


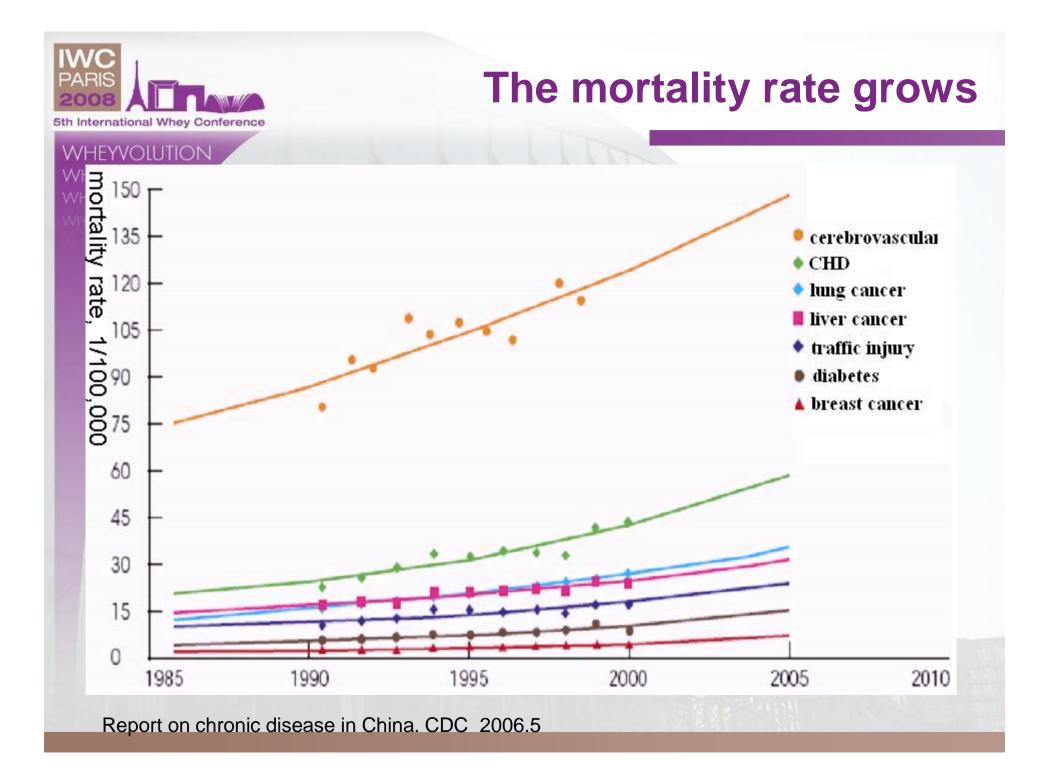
IWC

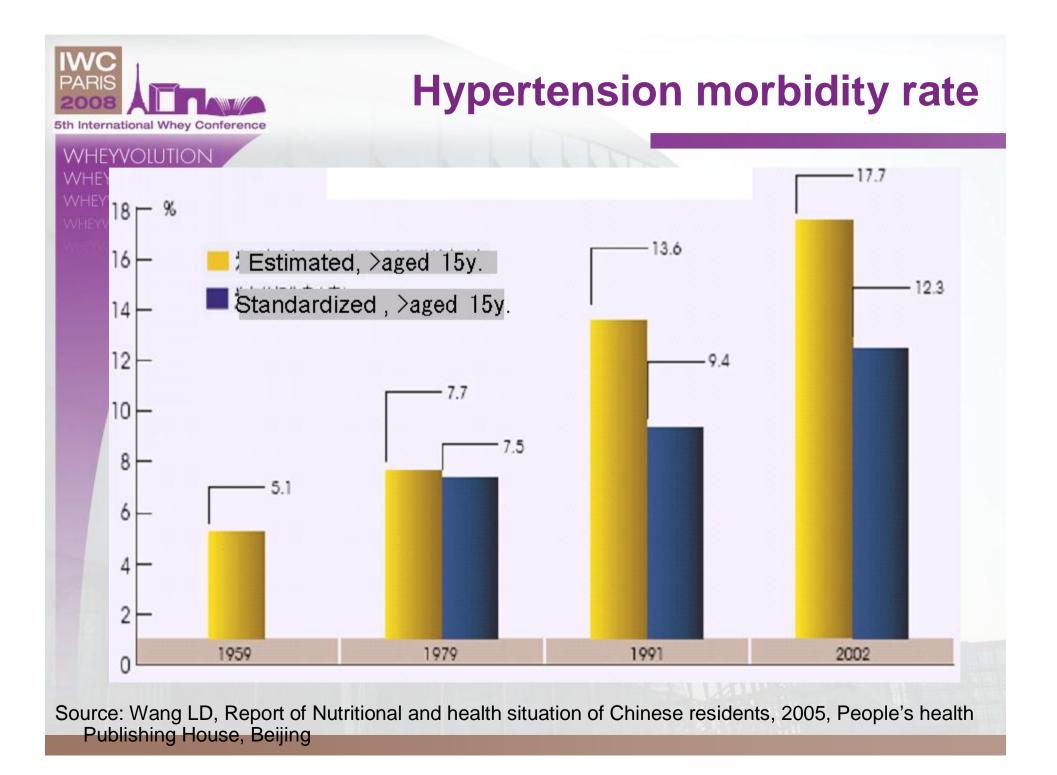
PARIS

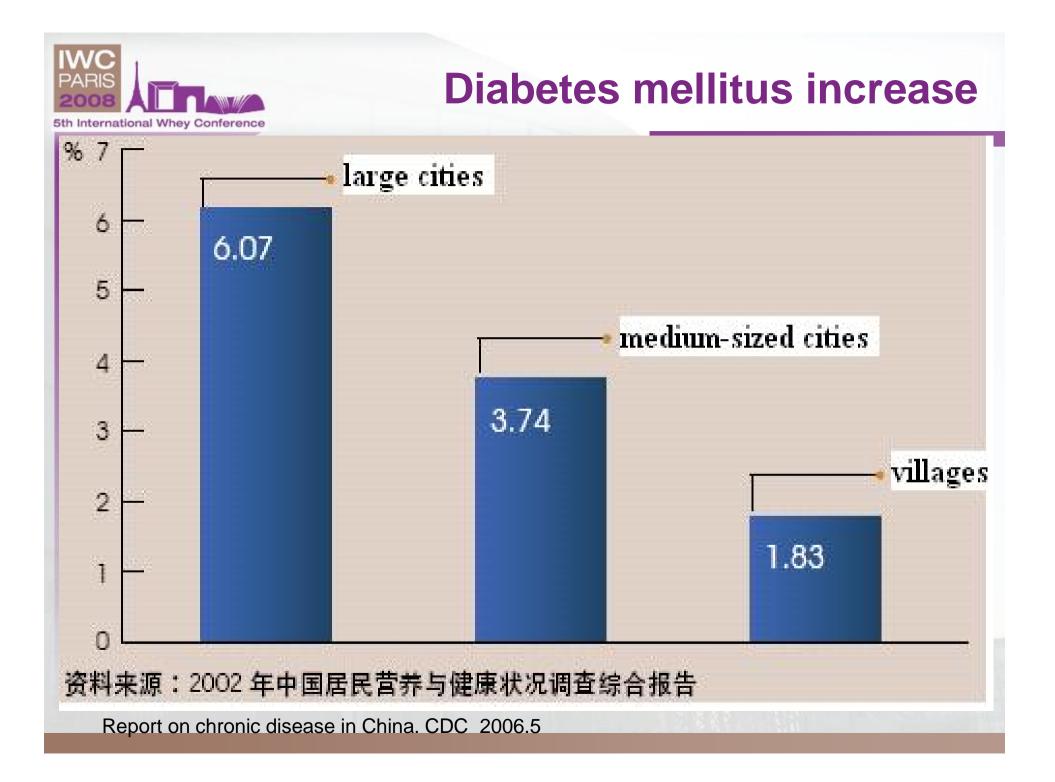
Longde Wang, Lingzhi Kong, Fan Wu, Yamin Bai, Robert Burton







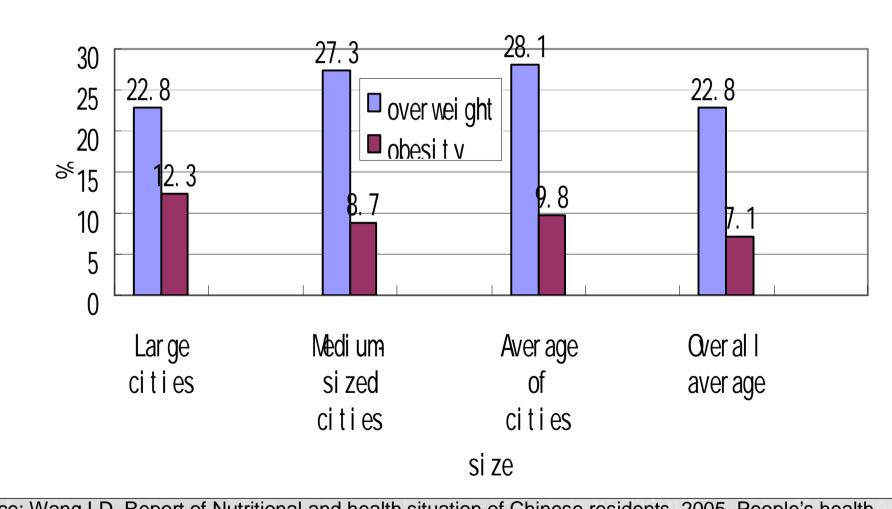






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## Prevalence of overweight and obesity of adult in China

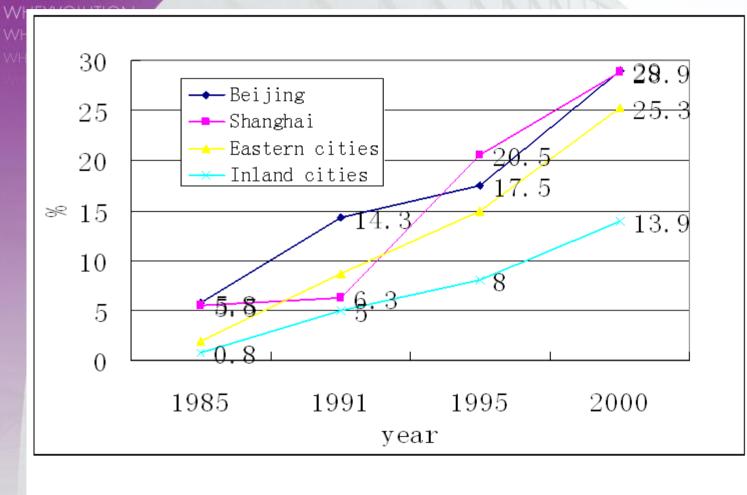


Source: Wang LD, Report of Nutritional and health situation of Chinese residents, 2005, People's health Publishing House, Beijing

#### Trend of prevalence of overweight/obesity of boys aged 7-12 in cities during 1985-2000

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In 2002, aged 7-17, 13% O.W. and 8% OB. In cities to 2% O.W. and less than 1% OB. in rural sites

Source: Ji CY, 2007 Biomed Env Sci, 20,1-5

Disease	Attributable direct burden (Billion USD)		Total (billion USD) (% 0f total burden)
	Overweight	Obesity	
Hypertension	6.05	5.91	11.96(37.4)
Diabetes	2.02	1.37	3.40(34.2)
CHD	1.76	1.24	3.01(11.3)
Stroke	7.53	2.24	9.77(23.3)
Total	17.36	10.76	28.14 ( 25.5 )

(based on data from the National Health Service Survey)



#### New risk factors still exist

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- Industrialization has led to Chronic Disease
- ~ Risk factors:
  - è Smoking
  - è Pollution
  - è Automobiles
  - è Diet
  - è Sedentary lifestyle
- ~ Urbanization
- ~ Aging population increasing



#### The reality brings about change

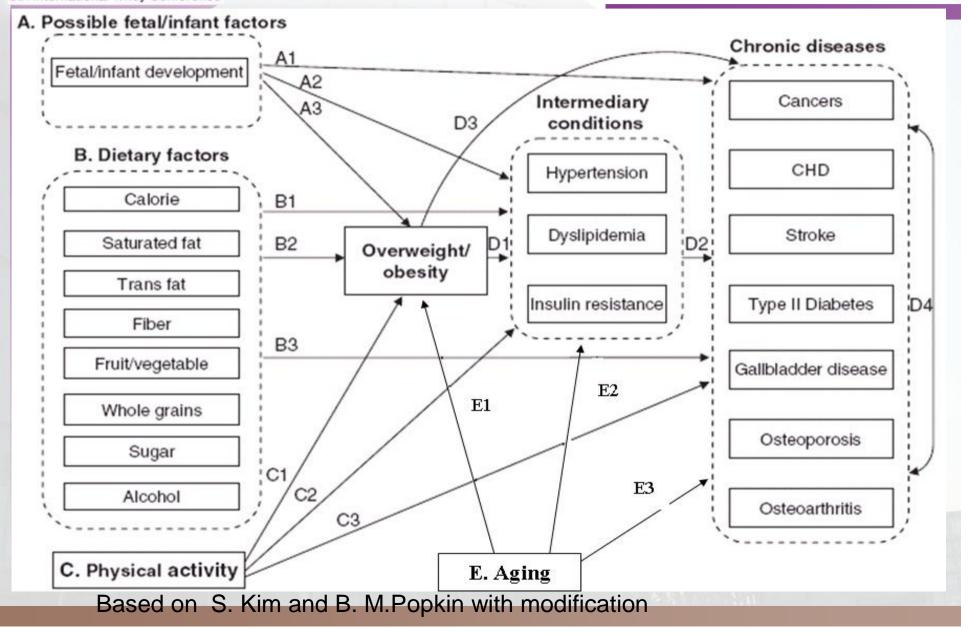
The major forces to drive the epidemic of chronic disease still exist and some even increasing, which brings about a not so good prospect that we have to face!

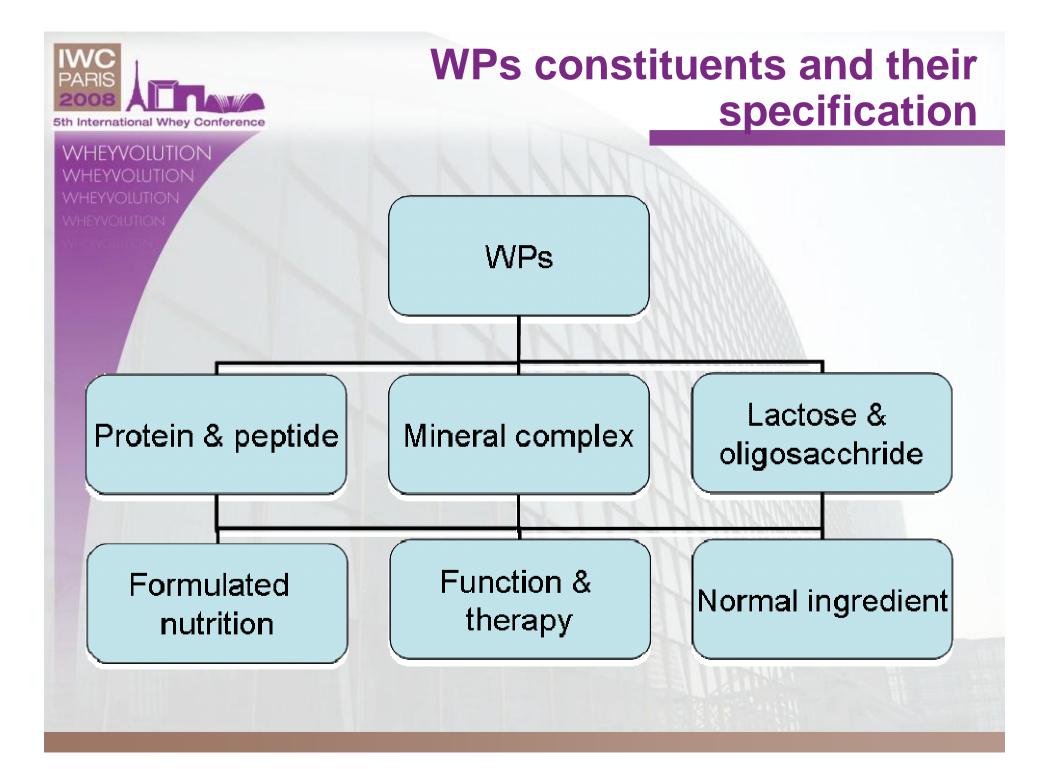
Changes also happen! An increasing number of people in China are becoming more health conscious and the health expenditure percent in GDP has been continuously increasing, almost 30% from 1987 to 2006, which is a biggest market

#### Key pathways on chronic diseases

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#### **Formulated nutrition**

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- Sports nutrition
- Infant formulae
- Others, e.g. the pregnant women, the aged
  ----usually in powder



#### **Normal food ingredient**

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- ~ With dairy source: milk as ingredient
- Lower cost brings higher product quality in organeptic, structure and protein or total solid
- Compete with substitutes in price and quality





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#### **Function & therapy**



2. Adjunct therapy

3. Recovery

1.Overweight/ Obesity

2.Intermediary Condition

3.Chronic diseases

#### **Market Survey: Dairy products' function 5th International Whey Conference** WHEYVOUUTION immunity 61.7% intestinal health 51.6% osteoporosis 46.7% 43.7% dyslipidaemia hypertension 35.2% diebetes 23.0% beauty 22.1% decompressure 20.8% 2.2% others

Report on Requirement Analysis of Functional Dairy Products Development and Its Technical Selection. From specific project study on "Requirement analysis and technical selection in 2008", Soft Science Dept., Beijing Municipal Sci.&Tech. Committee



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#### **Market survey**

- Functional dairy products concept wellaccepted
- ~ Biggest potential market
- ~ Function claim
- ~ Suitable higher price

Advertisement is necessary.Function is more important!

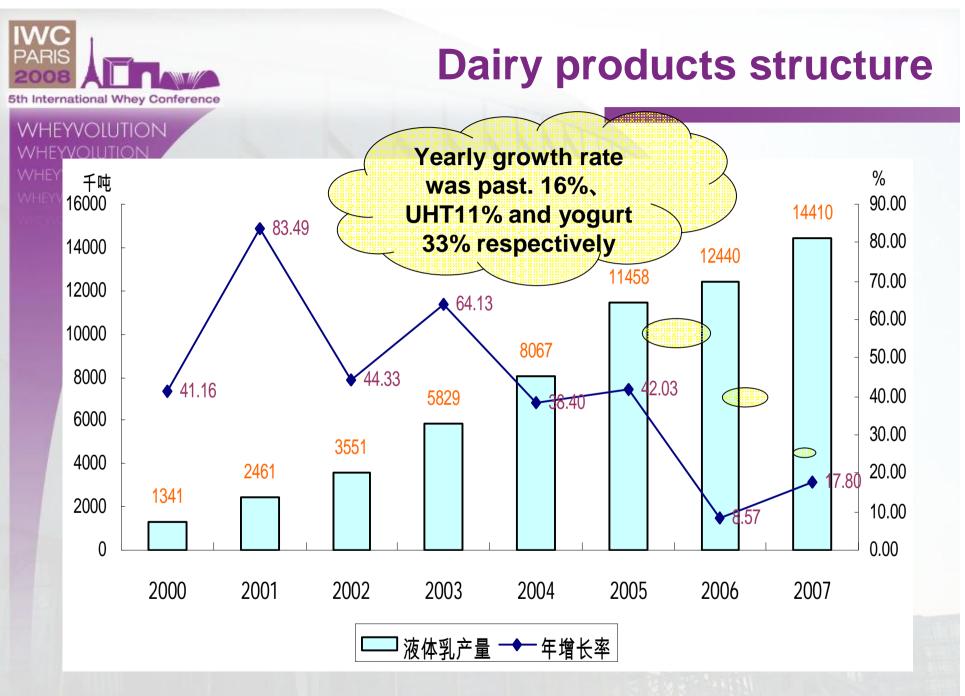


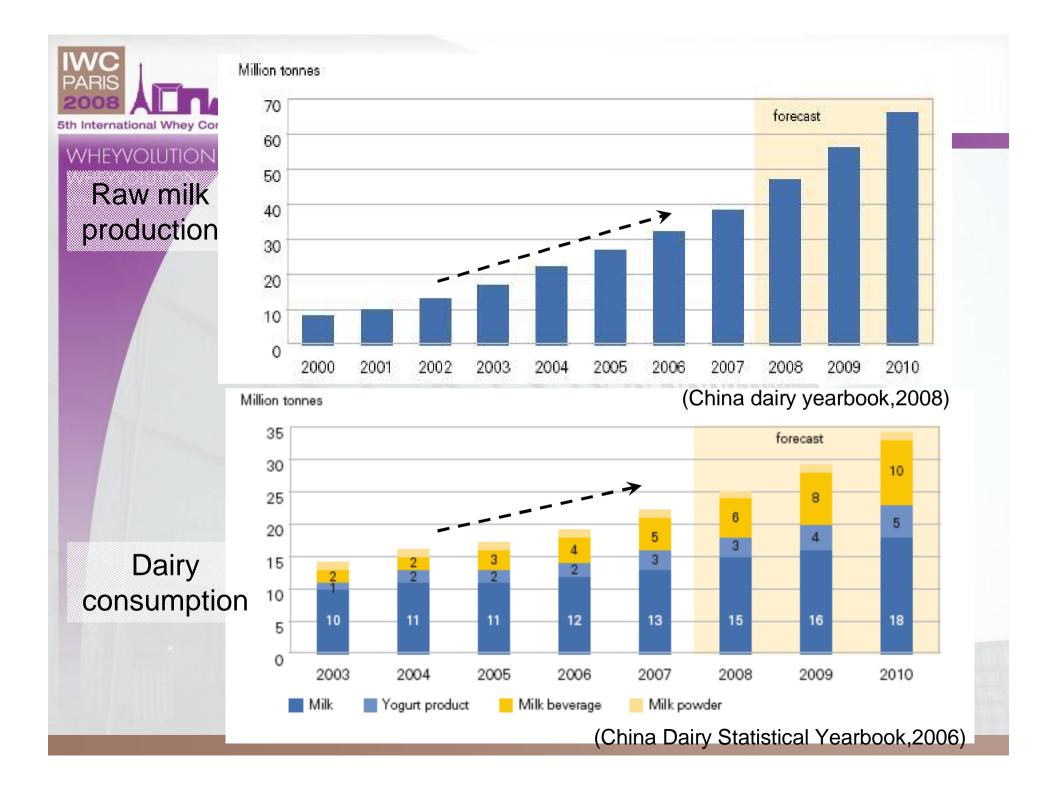


#### **Dairy industry transforming**

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- Single products structure
- More than 10 years continuous rapid growth bring out growth rate lowering
- Potential market requirement for functional food with additional value to keep the industry growing
- A very little liquid product developed but with more than 50% growth rate

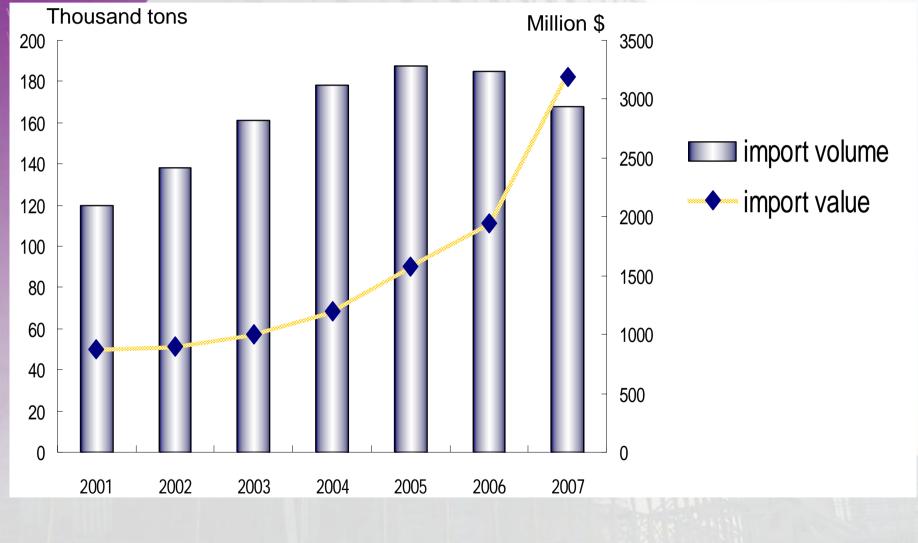






#### Import volume and value of WPs

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#### **Outlook and challenge**

Big group of population suffering disorder or chronic disease support biggest potential market requirement for functional dairy products

- WPs supply the manufacture bioactive ingredients with same source to meet dairy industry and its market requirement
- Function claim should be verified by domestic authority



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## **THANKS!**