

WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

## Why a leading food producer uses whey

Translating science to diet and health: Creating, renovating and enhancing health value of brands

## Zdenek Kratky Vice President, Nestle Research Center Lausanne, Switzerland



### WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

C.

### Henri Nestlé

#### 1867

First complete powdered infant formula with wheat and malt flour, cow's milk and sugar developed by H. Nestlé

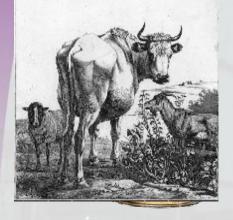
### 1915

"Synthetic milk adapted" formula with skim cow's milk, lactose and vegetable oils developed by Gerstenberger and Ruh (around 2.0 g prot/100 kcal)

### 1961

**Our roots** 

Process for demineralization of whey protein 1976: Protein content in infant formulas 1.8 g/100 kcal. Whey:casein ratio similar to human milk



1838

First chemical

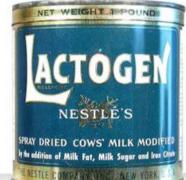
cow's milk by J.

analysis of human and

F Simon







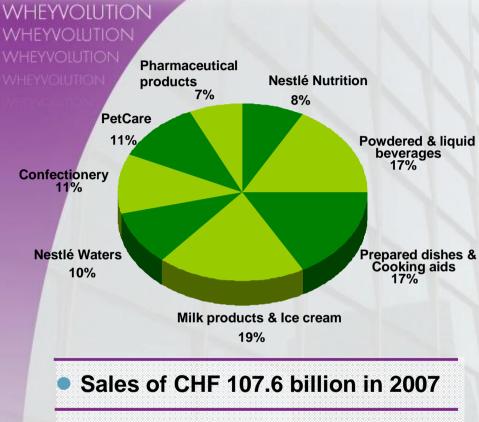


18 <sup>th</sup>	19 <sup>th</sup>	20 <sup>th</sup>	21 <sup>st</sup>	
		Maria and a second second second		

# Nestlé, the largest Food Company

5th International Whey Conference

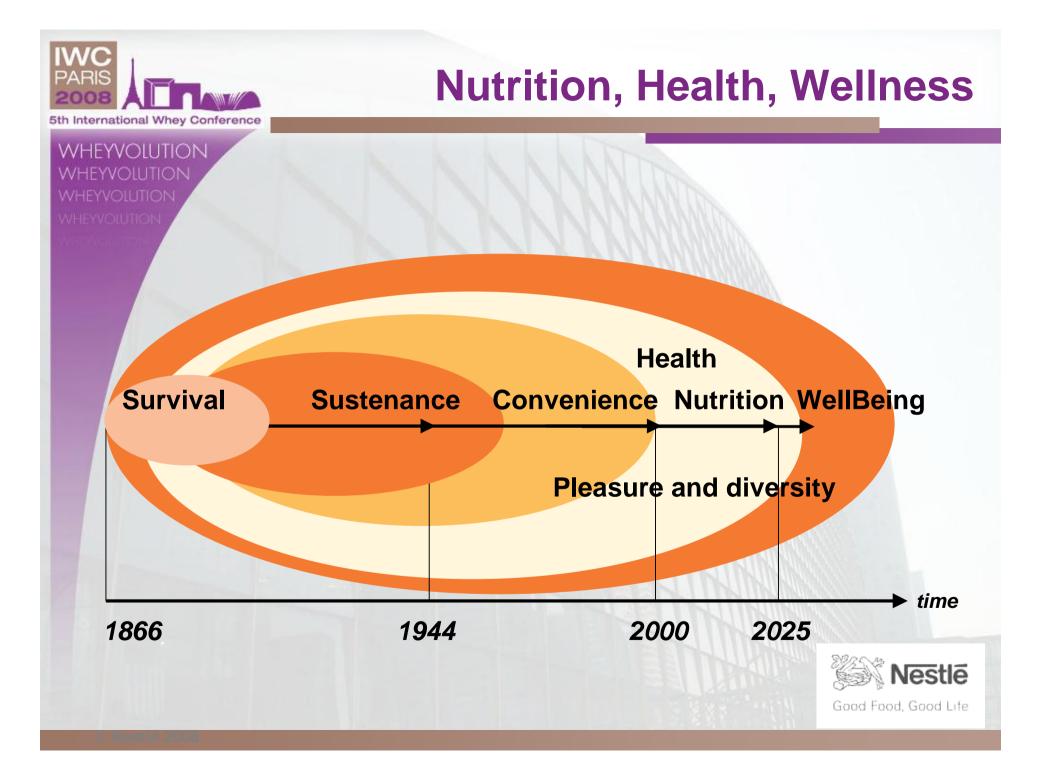
PARIS



- 276'000 employees
- 93% of sales is food and beverages
- 480 factories in 86 countries









# **Health and Nutrition**

WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

Paradox:

Good and plentiful food in developed countries
 Rising incidence of non-communicable degenerative diseases

- ~ WHO:
  - è Seven risk factors for NCD

Ahigh blood pressure; tobacco; alcohol; overweight; low intake of fruits and vegetables; high cholesterol; low physical activity

~ Translation of public health needs for diet



# **Translational nutrition**

Society

Consumers

VHEYVOLUTION VHEYVOLUTION VHEYVOLUTION

WHEYVOLUTION

Nutrition knowledge

Science

discoveries

New product development Food for health and wellness

> TRANSLATIONAL NUTRITION

Consumer insights Gaps in nutrition knowledge Priorities for future research



# **Translation for Health**

WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

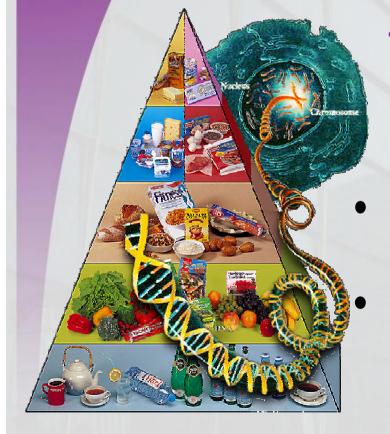
- ~ 1 Health Benefits
  - è Reducing risk
  - è Realizing opportunity, enhancing performance
- 2 Clinical Demonstration
  No product without human clinical trial
- ~ 3 Market Preference
  - è Consumer appreciation and preference



# **Foods AND Values**

### WHEYVOLUTION WHEYVOLUTION WHEYVOLUTION

## Drugs are 'OR' product Foods are 'AND' products



Nutrition: How does food affect *all* aspects of health in each individual

**Quality:** How does it taste, smell, and crunch; foods must delight each individual

**Safety:** Free from pathogens, toxins, poisons; alerted for allergies and intolerances

**Processing:** Stable, convenient, cost competitive

