A background image of a food processing facility. In the foreground, a large metal rotating drum is filled with bright red strawberries. A cardboard box, partially open, sits on a table next to the drum. In the background, there are stacks of white paper or plastic sheets on a table, and various industrial equipment and conveyor belts are visible, suggesting a large-scale food production environment.

FOOD INDUSTRY : AN OVERVIEW

TITIS SARI KUSUMA



LEARNING OBJECTIVES

- Definition of food industry
- Scope of food industry : from farm to fork
- Current status in various countries : especially in Asia
- Partnership between government, academia, and food industry
- Challenges and opportunities of food industry
- International regulatory situation affecting food industry



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Trays**



DEFINITION OF FOOD INDUSTRY





Not normally defined term

However



It is widely used to

cover all aspects of food production :

process, manufacture, distribution,
market, and sale of foodstuffs for human
consumption

In this course

The term food industry is used to

Describe organizations

involved in

processed and prepackaged food

(Food Standards Agency, The UK)





Food Standards Agency, The UK

“...the whole food industry – from farming and food production, packaging, and distribution, to retail and catering. It addresses food safety issues at every stage of the chain, providing information and guidance on best practice and legal requirement”





Food Industry should have

- **Full commitment on health issue**
- **Implement** it through Corporate Social Responsibility Program
 - Especially toward children and vulnerable population
 - Focusing on diet, nutrition and physical activity
 - Reflected by **key performance indicators**, not only by general statement



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SCOPE OF FOOD INDUSTRY





- Food manufacturing and agriculture
- Food processing
- Wholesale and distribution
- Retail and food service
- Food industry technologies
- Marketing
- Regulation
- Labor and education
- Research and development



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CURRENT STATUS OF FOOD INDUSTRY





USA

- USDA Reported (2001)
- Food and fiber marketing system : 12,3% to GDP
- Employed 23,7 million people (16,7%)





EUROPE

- The food and drink industry
- Most important and dynamic industrial
- 310,00 companies
- Employed for 4 million people
- 1.9% value added of the total economy
- 2.2% employment, often in rural areas





AUSTRALIA

- Food industry is a vital component
- Food accounts for 46% of all retailing turnover
- Total food and liquor spending in 2006-07 rising to \$106.6 billion
- 2006-2007
 - 191,400 employed in food and beverage





ASIA PACIFIC

- The food industry in AA region is gigantic in size
- 2000
 - Japan : total expenditure on F and B \$322 Billion
 - China \$188.5 Billion
 - Korea \$67 Billion
 - Taiwan \$46 Billion





ASIA PACIFIC

- Other demographic and social factor >> are becoming important change in the nature and composition of this trade
 - Rapid growth of industrial cities in the asian region
 - Increasing of aging population
 - Changing demands to processed food
 - Growth of supermarkets and similar retail outlets



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PARTNERSHIP BETWEEN ACADEMIA, GOVERNMENT, AND INDUSTRY





NASIONAL GOVERNMENTS

- Consider to improve the monitoring of food companies based in their jurisdictions
- Collaborate with other and with WHO to best tool and worst practice in the auditing of company impact on diet, physical activity, and health





ACADEMIA-INDUSTRY

- Providing program for internship
- Industry-based student project
- Representation on academia boards

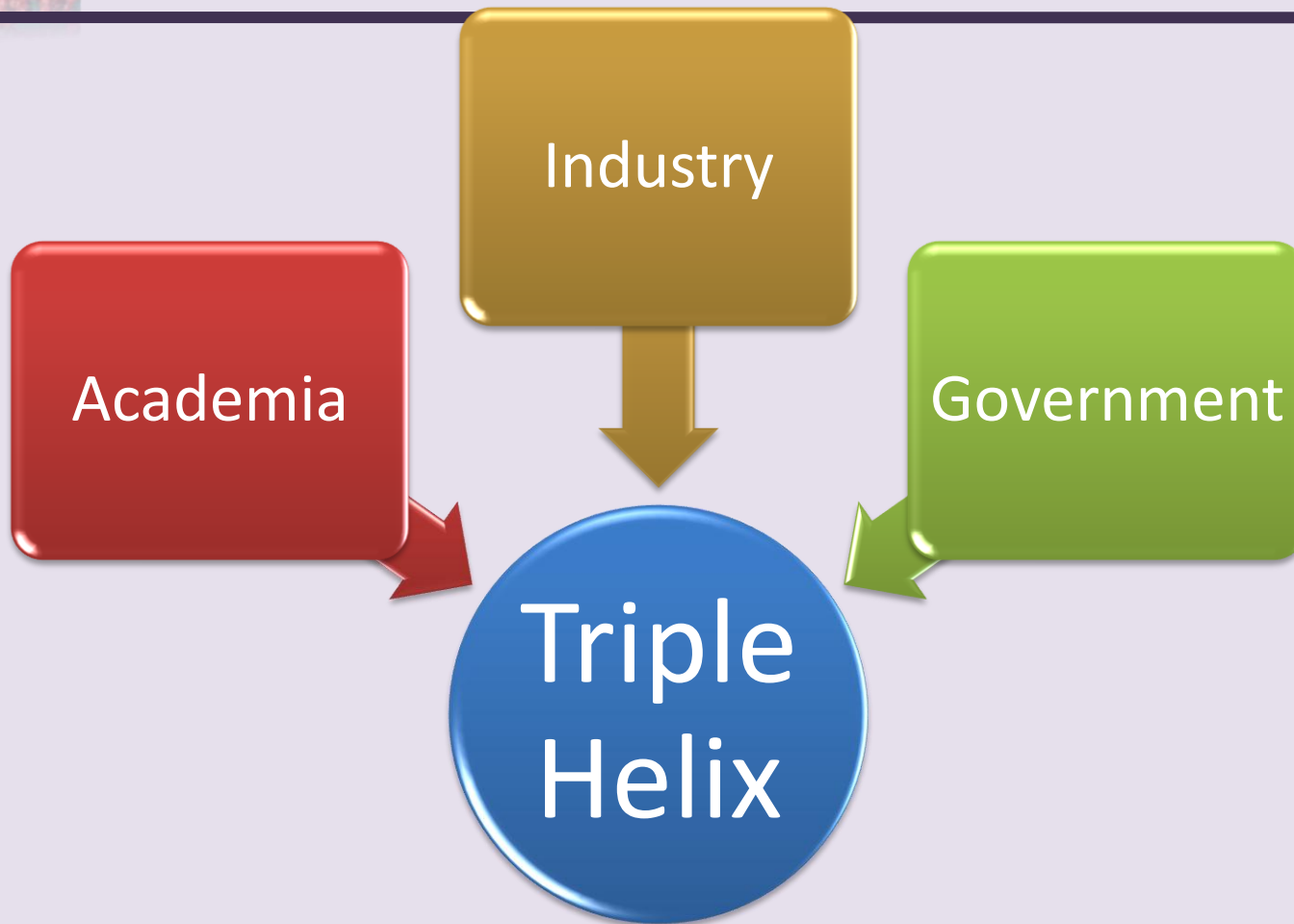
**On the
other hand**

- Complexity of scientific knowledge, the increase of keen and greater size of competition and the drive for innovation





TRIPLE HELIX





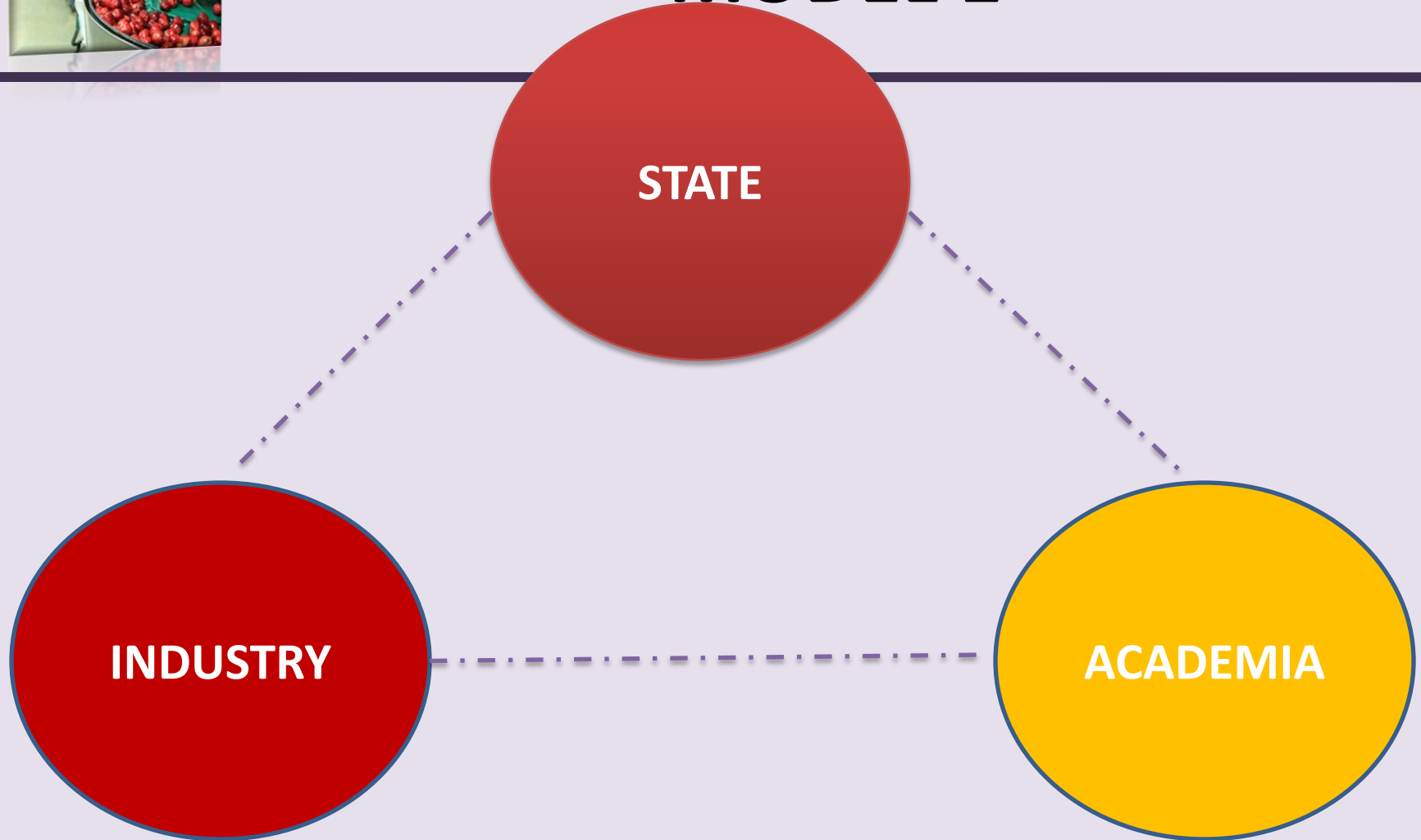
TRIPLE HELIX AIMS

To achieve
more innovation capability
and better financial returns
by coordinating
resources and vision
within a region



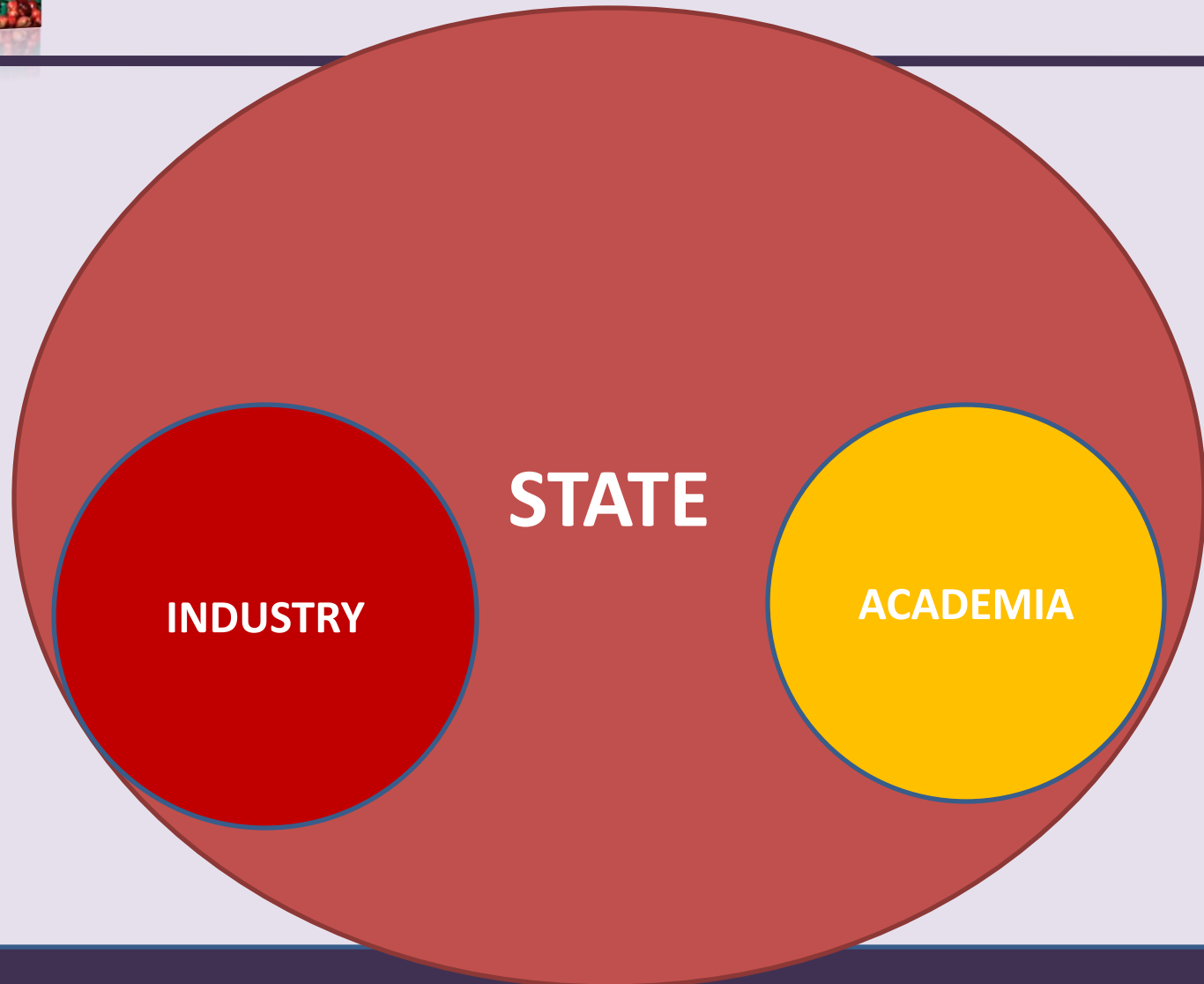


MODEL 1



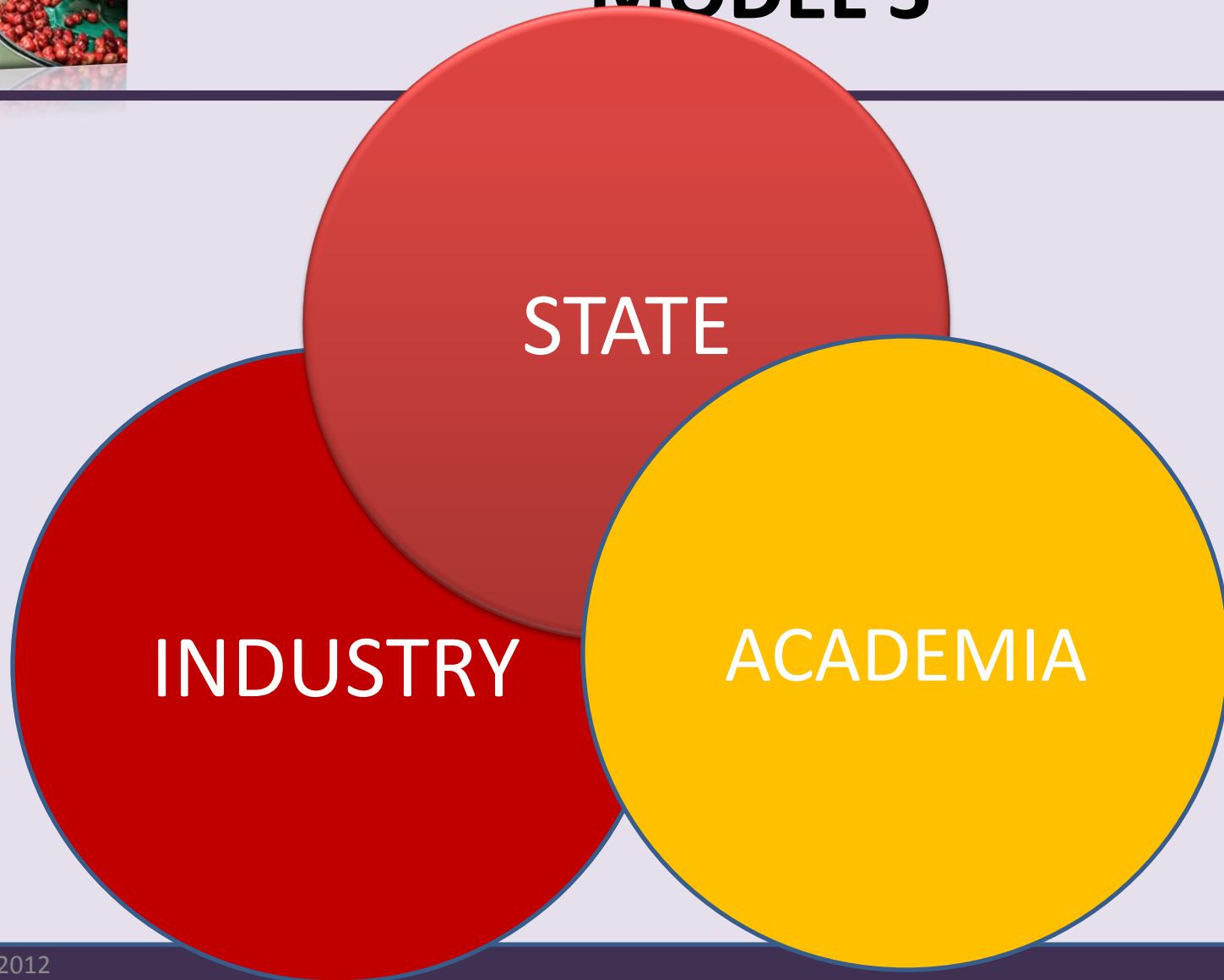


MODEL 2





MODEL 3



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CHALLENGES AND OPPORTUNITIES IN FOOD INDUSTRY





SEVERAL CHALLENGES

- Issues and trend over the next five years by
 - Climate change
 - Global economic downturn
 - Change of lifestyles
 - Obesity and diet-related illnesses
 - Food safety and consumer trust
 - Evolving consumer demands influencing challenges in facing the food industry



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Meat Trays
and Labels



INTERNATIONAL REGULATORY SITUATION AFFECTING FOOD INDUSTRY



INTERNATIONAL REGULATORY

- The codex alimentarius
- WHO
- FAO
- WTO
- Codex Decision Making
- Regulatory bodies governing nutrition health claim in various countries





Good Luck

