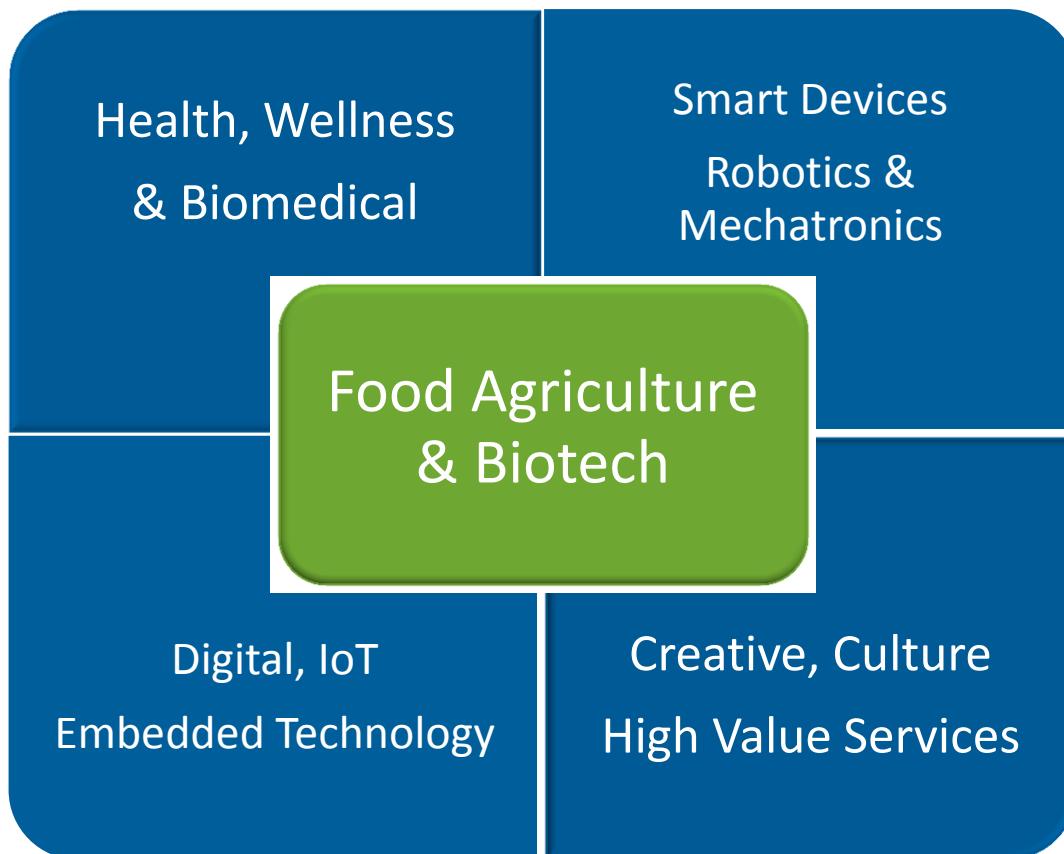




# THAILAND 4.0: FIVE NEW CLUSTERS



**Health Food  
Functional Food  
Nutraceuticals**

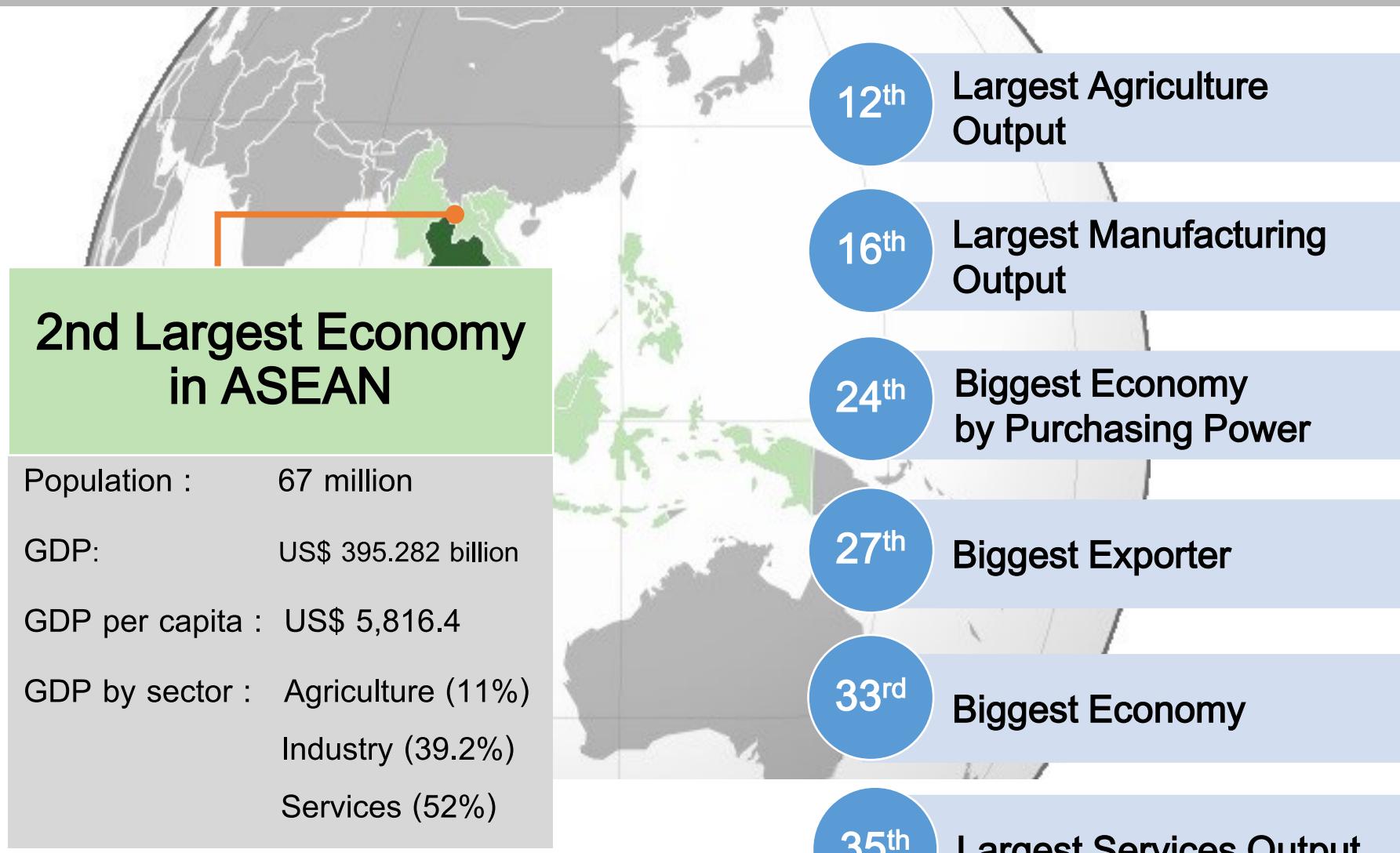


**Automation  
Smart Farming**



**Premium Food  
Specialty Foods  
Ingredients**

# Fact & Figures



# Thailand's Food Exports Rankings

# Thailand's Food Exports Markets

# PERFORMANCE

# THAILAND WORLD'S

# TOTAL FOOD EXPORTS

13<sup>TH</sup>



Rice



## Sugar



## Frozen Chicken



## Canned Tuna



## Frozen Shrimp



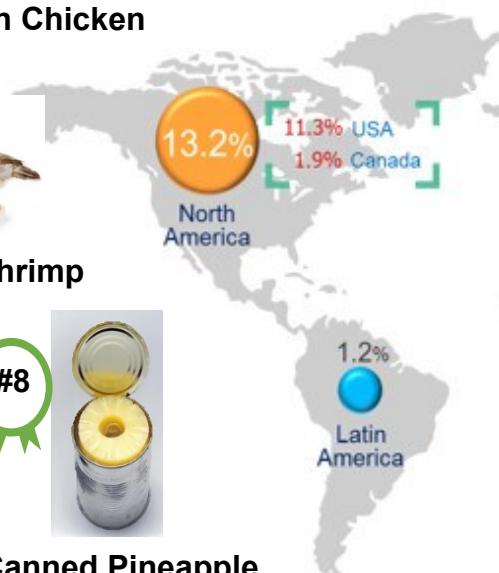
## Cassava Starch



## Seasoning



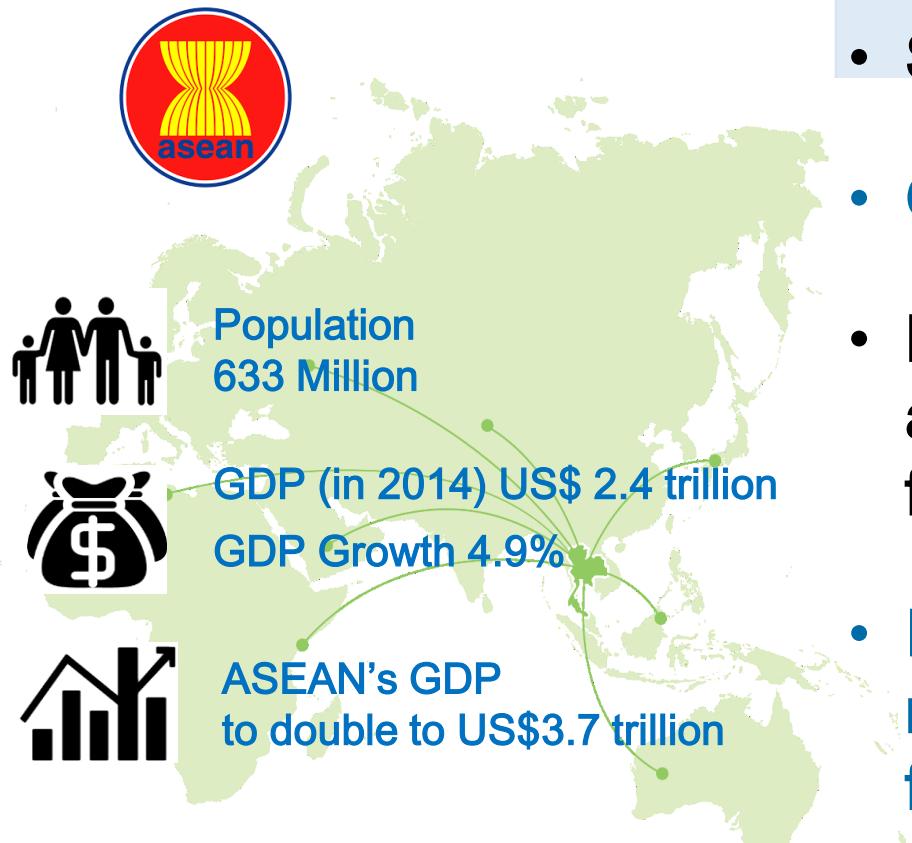
## Canned Pineapple



Source : Board of Investment, 2016

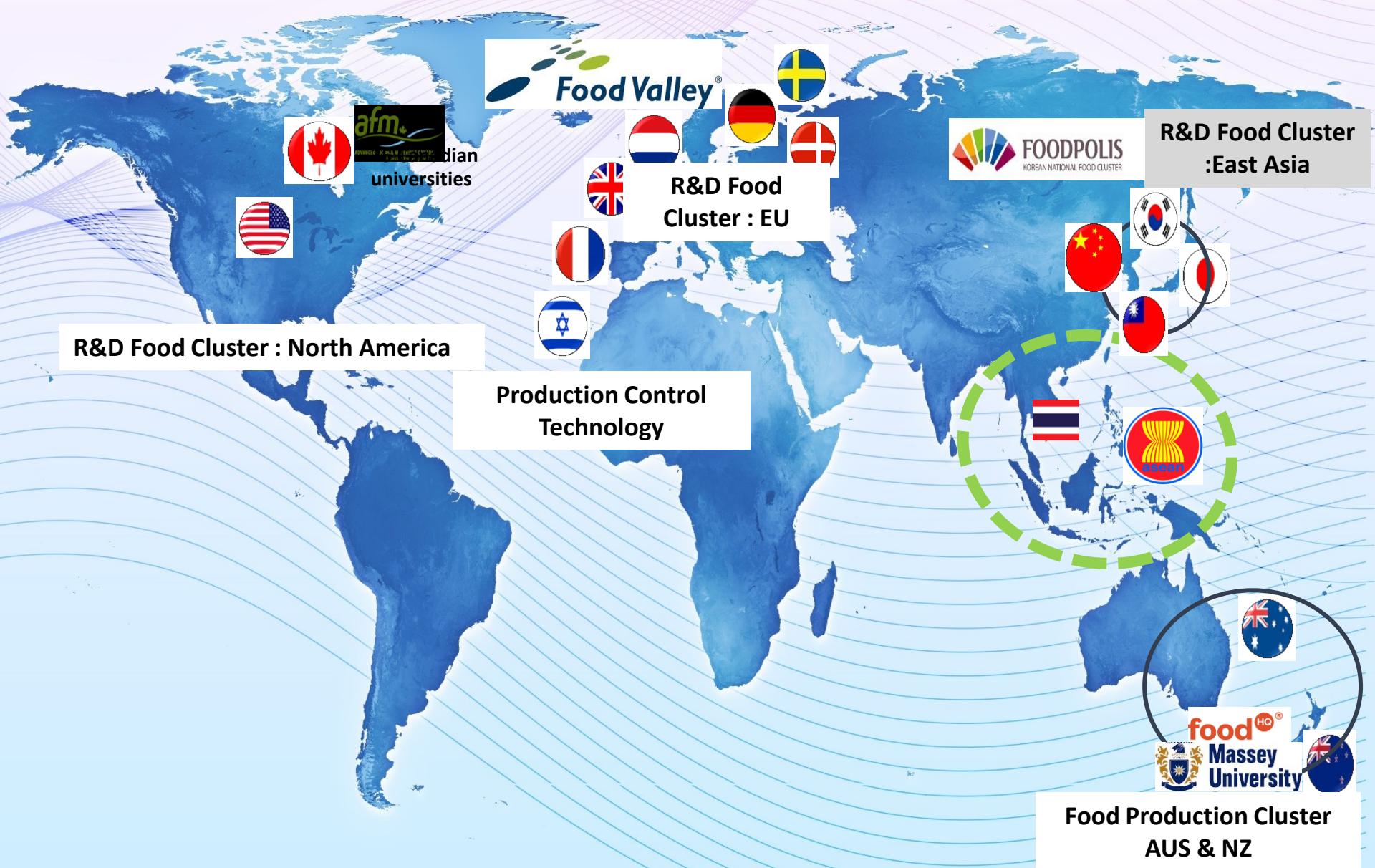
Source : National Food Institute, 2016

# Thailand



- Strategic location
- Great variety of raw materials
- Excellent research capabilities and human resources in food science and technology
- Integrated nationwide resources and state-of-the-art facilities

# Global Food Innovation Hub



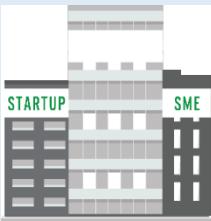


# FoodInnopolis

## GOALS :



**Increase R&D expenditures,  
attract oversea corporate R&D centers**



**Support and link Thai Startups, SMEs,  
MNCs, with global food value chain**



**Create high value added products and  
services as a new economic growth engine**



**Create job opportunities for  
STI staffs and HRD for RDI**



**Provide world class innovation ecosystem**

# Inter-Ministry Collaborative Platform for Food Innovation



## 51 Organizations

- 16 Private Companies
- 23 Universities
- 12 Public Organizations

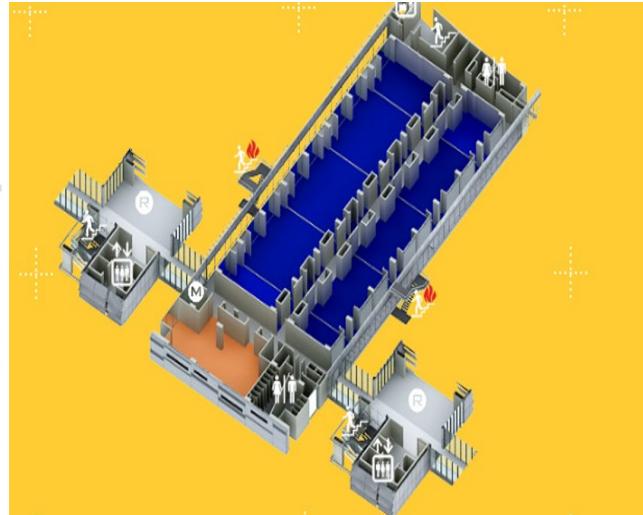
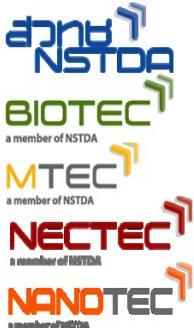
# FOOD INNOPOLIS NETWORK

 Food Innopolis at  
Regional Science Park



# 1st Location:

Within close proximity to National Research Centers



**Modular Design Laboratory**



Innovation Cluster 2 (INC2)  
Total space 124,000 m<sup>2</sup>

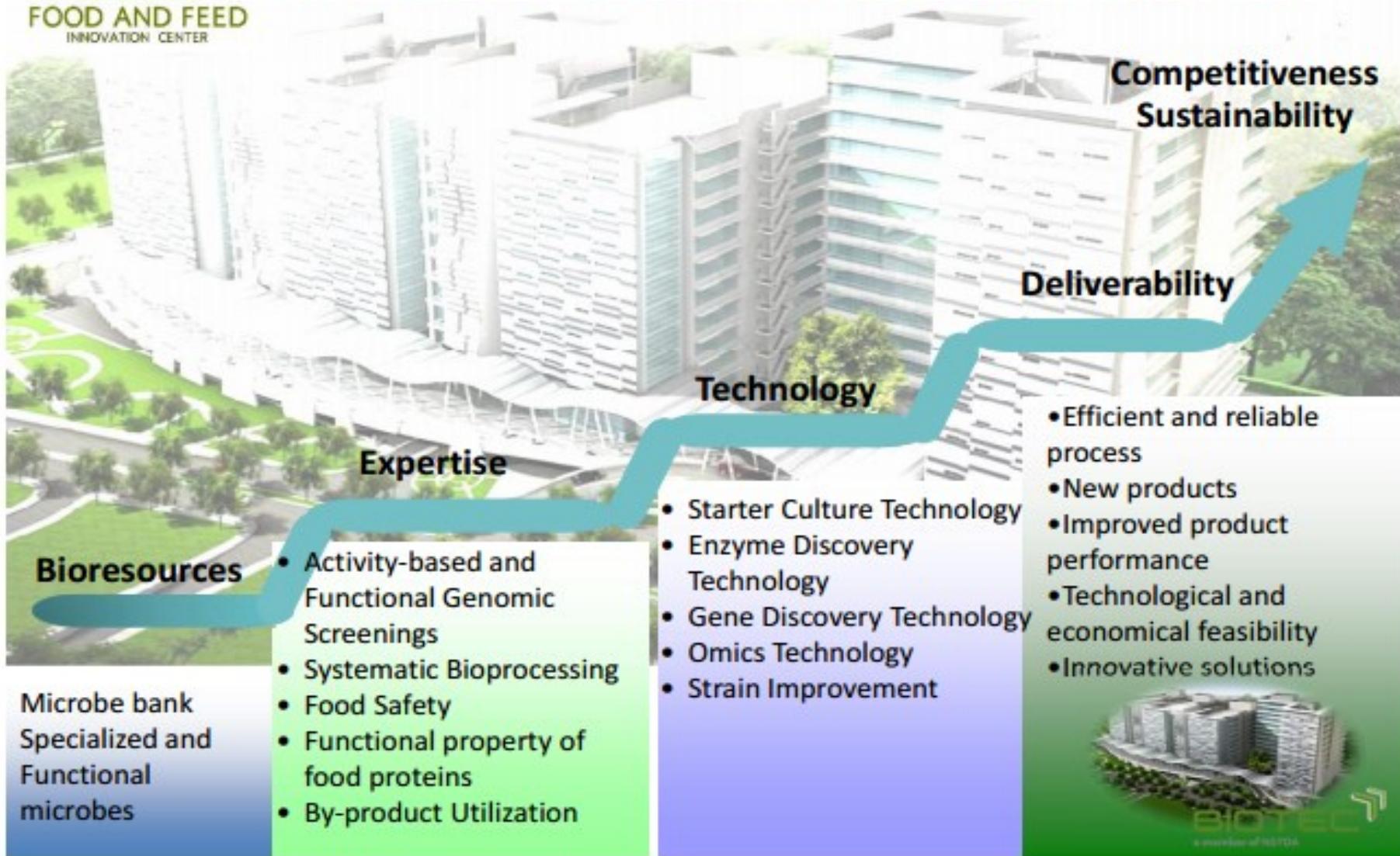


**Ready-to-move-in  
Laboratory**

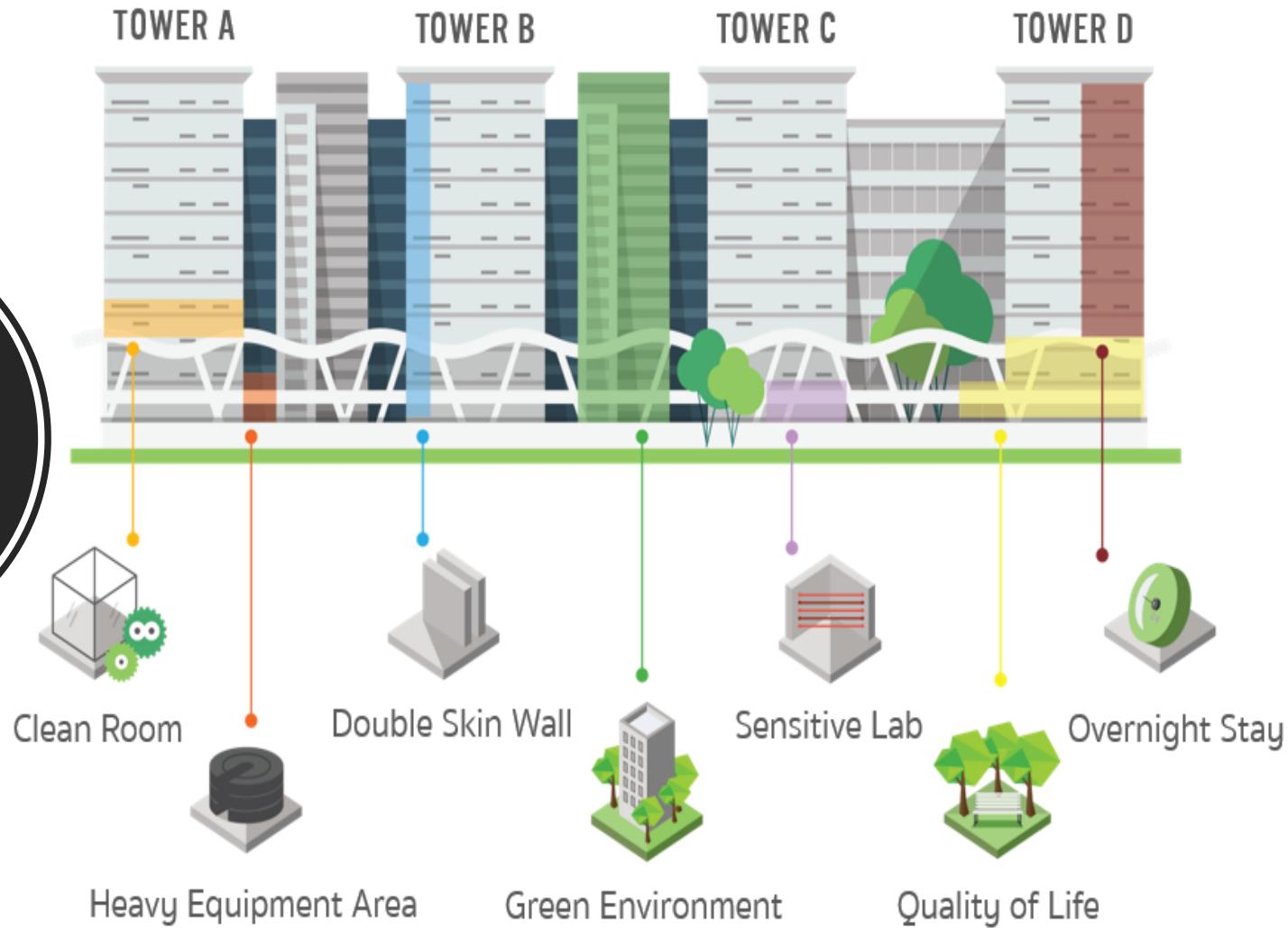


FOOD AND FEED  
INNOVATION CENTER

# Food and Feed Innovation Center at FoodInnopolis



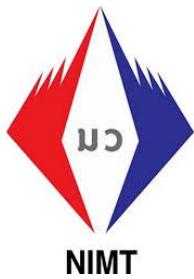
## Specially Designed Facilities





Thailand Institute of Scientific and Technological Research (TISTR)

- Food Pilot
- Microbial Resource Center
- Laboratory Animal Facilities



# National Institute of Metrology (Thailand)



## ASEAN Standard Reference Materials

National Quality Infrastructure (NQI) is an organizational infrastructure, comprises of metrology, standardization, testing and quality management

Organic Chemistry Lab, Inorganic Chemistry Lab, Electrochemical Lab, Gas Analysis Lab, Biological Analysis Lab, Clean Room

Food Safety, Contaminants



# Synchrotron Light Research Institute (Public Organization)



In-depth scientific research analysis of various materials to the atomic and molecular scale.

The materials to be tested can be in the form of solid, liquid, gaseous or even plasma.

Synchrotron light source is therefore a fundamental scientific and technological element for the national development of industry and economy.



# Food Innopolis Master Plan (2016–2020)



- Food Innopolis Phase 1 @ Thailand Science Park  
Incubator 2, Pilot Plant, Long Leased Land
- Food Innopolis Phase 2  
Bangkok Metropolitan  
Regional Science Parks
  - Chiang Mai
  - Khon Kaen
  - Songkhla



## Thailand Inst of Scientific and Technology Research



## Northern Science Park



## National Institute of Metrology (Thailand)



## North Eastern Science Park



## ASEAN Standard Reference Material Center



## Southern Thailand Science Park





NORTHERN  
SCIENCE  
PARK  
THAILAND

# Northern Science Park



Rice  
Fruit & Vegetables  
Organic Products



# North Eastern Science Park



Rice  
Meat & Poultry  
Sugar



# Southern Thailand Science Park



**Halal Food  
Seafood  
Functional Food**

**1**

## High-Value Added Food Product & Service :

Promote and support food innovation in private sector

### 1.1 Focused Areas



**Healthy and functional food**  
e.g. Health food, functional food, Silver food



**High value added food products**

e.g. food ingredients, food extracts, nutritional extract, halal food, organic foods



**Supporting business for food innovation**

e.g. packaging, traceability, food safety, food storage and logistics

### 1.2 Focused Customers



MNCs



Thai Large & SMEs



Startups

### 1.3 Access to Global Value Chain



Connect with global food innovation network and supply chain

## 2 One-Stop Service :



### 2.1 Ease of Doing Business With Government

- Food Innopolis Service Platform
- One-stop service for Research & Development



### 2.2 Incentives

- Tax
- Non-Tax

# Competitiveness Enhancement Act

## Competitiveness fund (10 billion baht)

Matching grant for investment projects engaged in:



**Human Resources/HRD**



**Research Development & Innovation**



**Technology Transfer & acquisition**



**Collaboration with foreign & local academic institution**

## Tax Incentive

**Corporate income tax exemption max. 15 years for 10 targeted industries**

### Strengthening Existing S-Curve



Next-Generation  
Automotive



Smart  
Electronics



Affluent and  
Wellness Tourism



Food Processing  
Industry



Agriculture and  
Biotechnology

### Seeding New S-Curve



Digital



Robotics



Medical Hub

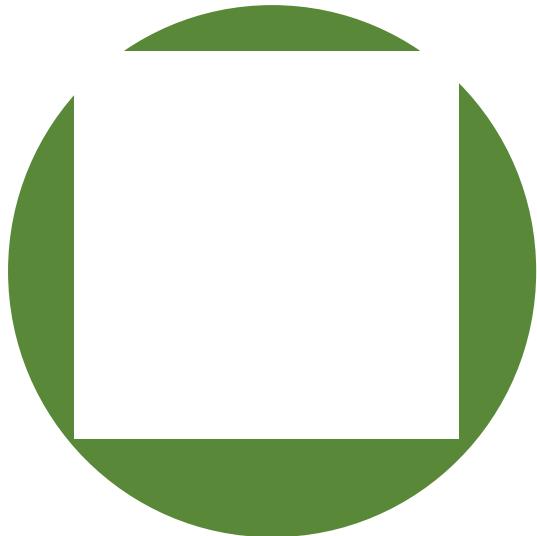


Aviation and  
Logistics



Biofuels and  
Bio-chemicals

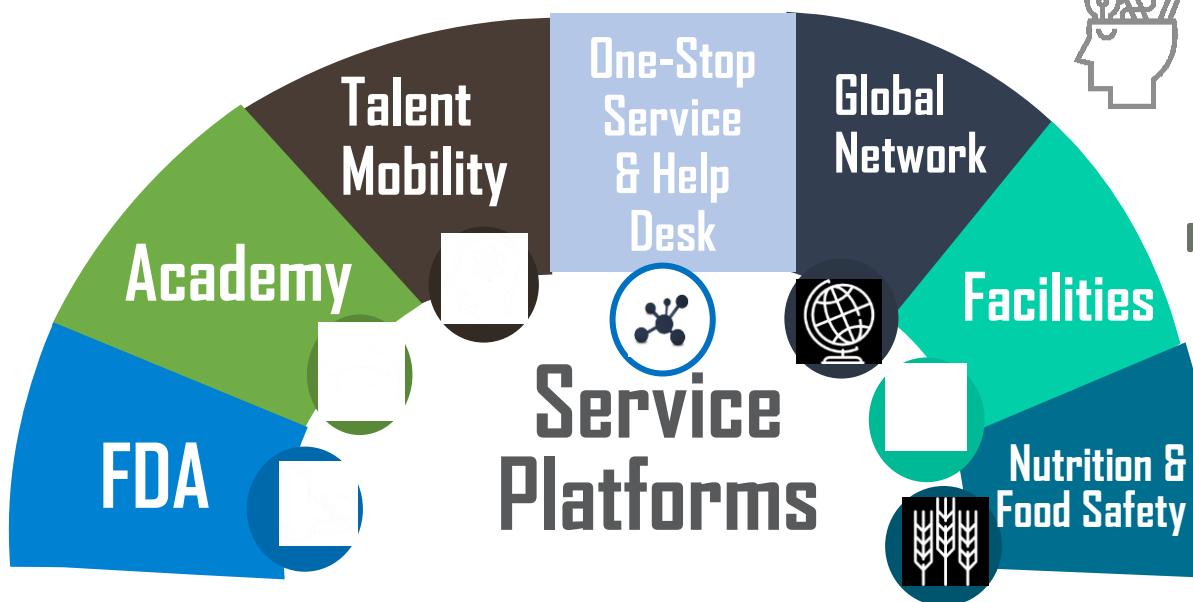
### ③ Infrastructures : Lab Testing & Pilot Plants



#### 3.1 Testing Lab, Research Lab, Pilot Plants



#### 3.2 FI Databank ▪ Researchers & Equipments



## Special Facilities :



Synchroton Light  
Research Lab



Innovation  
Food Lab



Advanced  
Processing  
Pilot Plant



Sensory  
Evaluation Lab



Advanced Analysis Lab



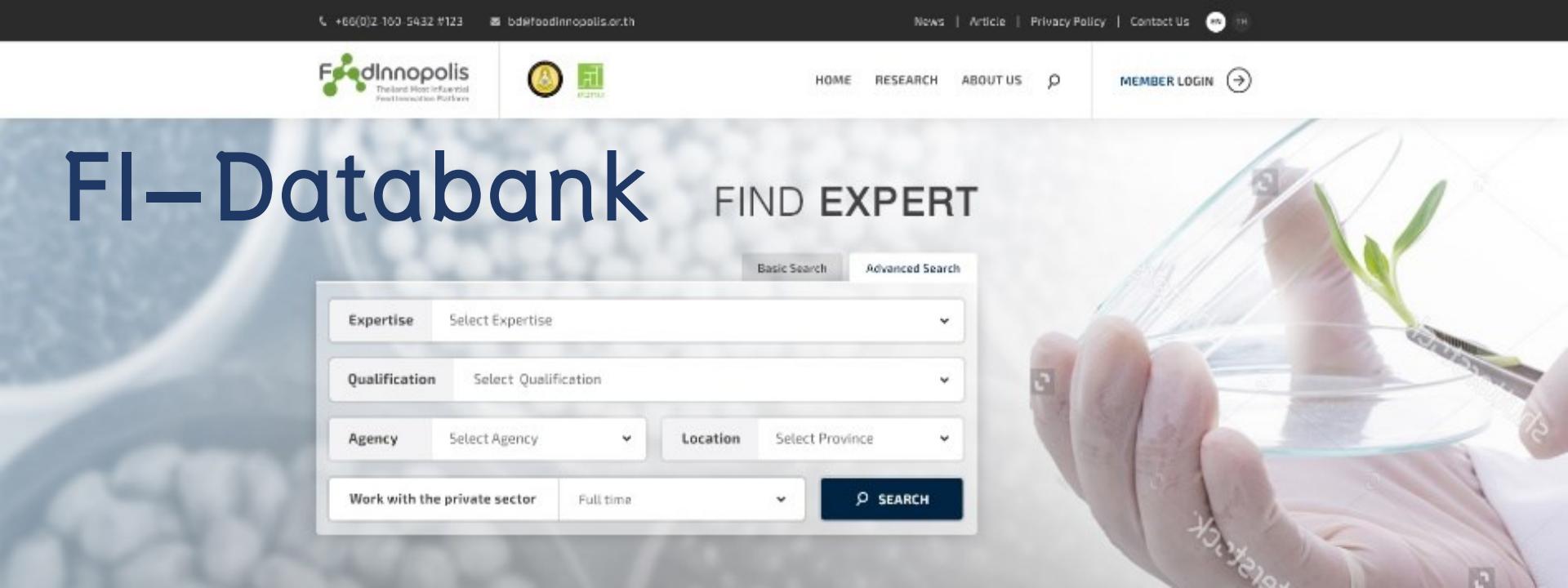
Clinical Nutrition Lab



Food Safety Lab

# FI-Databank

## FIND EXPERT



Basic Search Advanced Search

Expertise	Select Expertise		
Qualification	Select Qualification		
Agency	Select Agency	Location	Select Province
Work with the private sector	Full time	SEARCH	

- Researcher Database
  - Research Questions
  - Access to RDI Infrastructures
- Matching

[www.foodinnopolis.or.th/fidatabank](http://www.foodinnopolis.or.th/fidatabank)

## สถิติจำนวนนักวิจัยจากฐานข้อมูล

โดยแบ่งตามความเชี่ยวชาญในกลุ่ม Product ของ Taxonomy ดังนี้





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**02-160 5432 # 123**