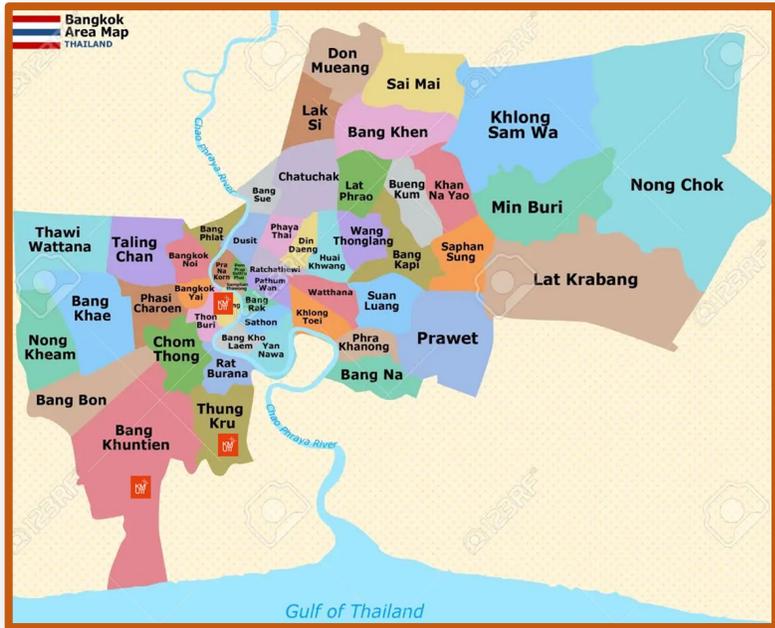


An aerial photograph of the KMUTT Bangkok campus. The image shows several large, modern academic buildings with white and grey facades. A prominent feature is a large, curved building with a white, ribbed roof. The campus is surrounded by lush green trees and a network of roads. In the background, a wide river is visible, along with a cityscape under a clear sky.

## **Regional Higher Education Forum Bangkok: KMUTT Study Visit @Bangkhunthian**

**S. Rachdawong  
May 12, 2023**



Knowledge Exchange Center: KX

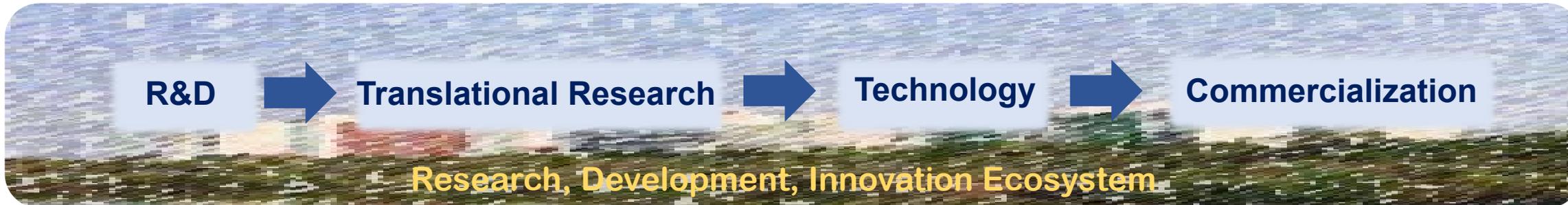


Residential College Campus : KMUTT Ratchaburi

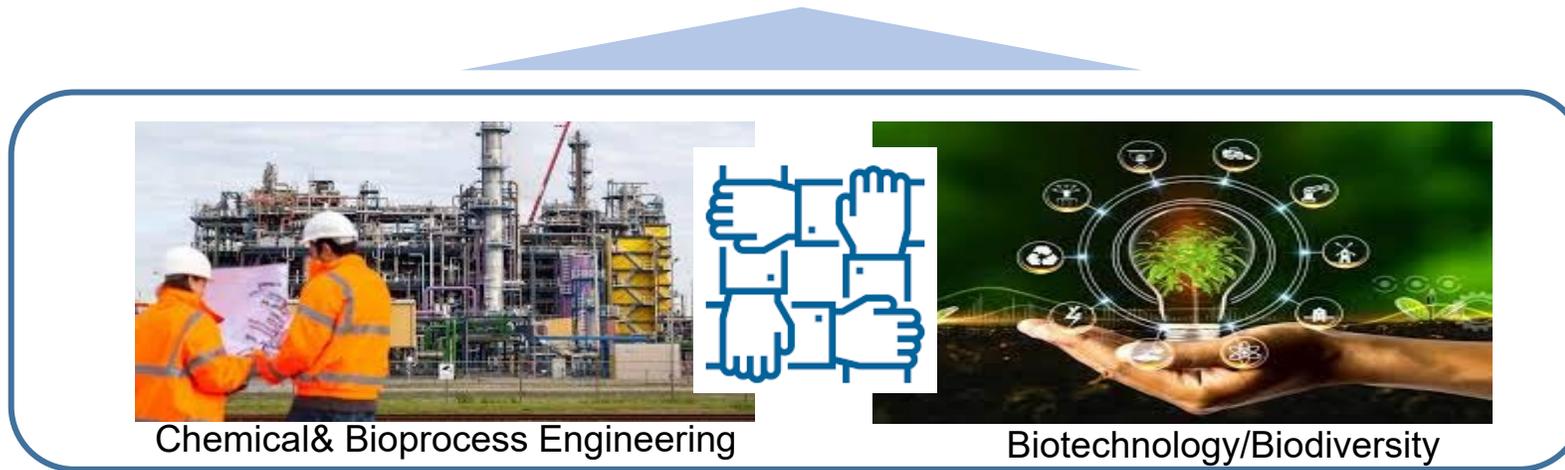


# KMUTT Science & Industrial Park @BKT

Since 1993



KMUTT's Strength



Thailand 4.0 & BCG Economy Model

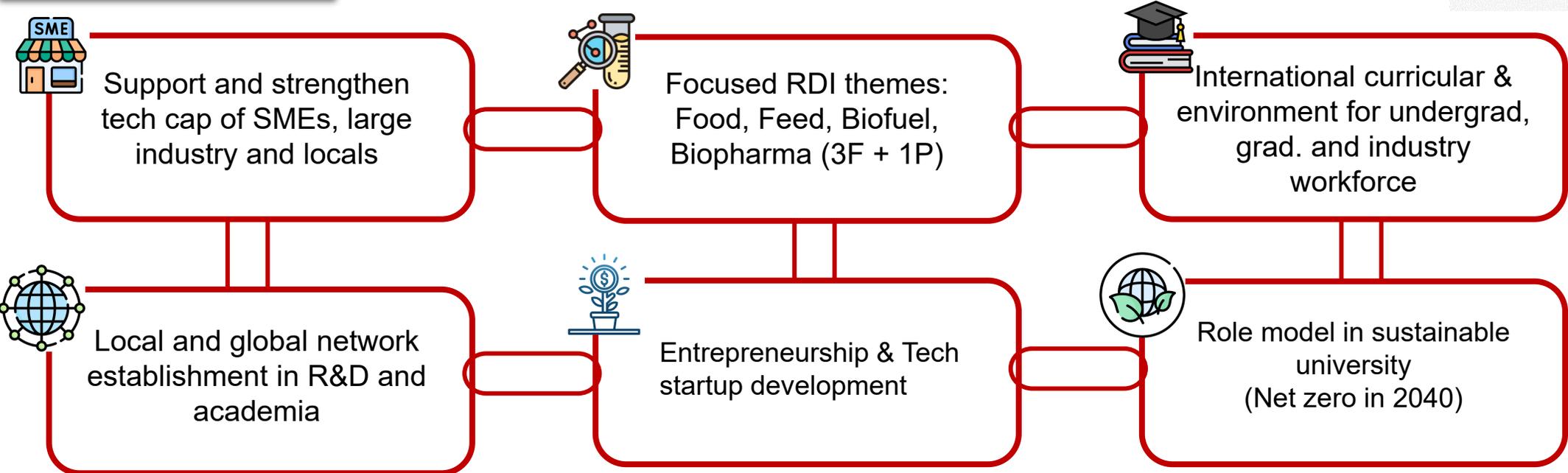


# GOALS

- ❑ Interdisciplinary R&D and technology development ecosystem in close collaboration with industry/SMES/local community
- ❑ Strengthen R&D and engineering capability of KMUTT staff and students through working with real sector
- ❑ International, specialized academic and training programs in multidisciplinary fields
- ❑ Clean and green campus

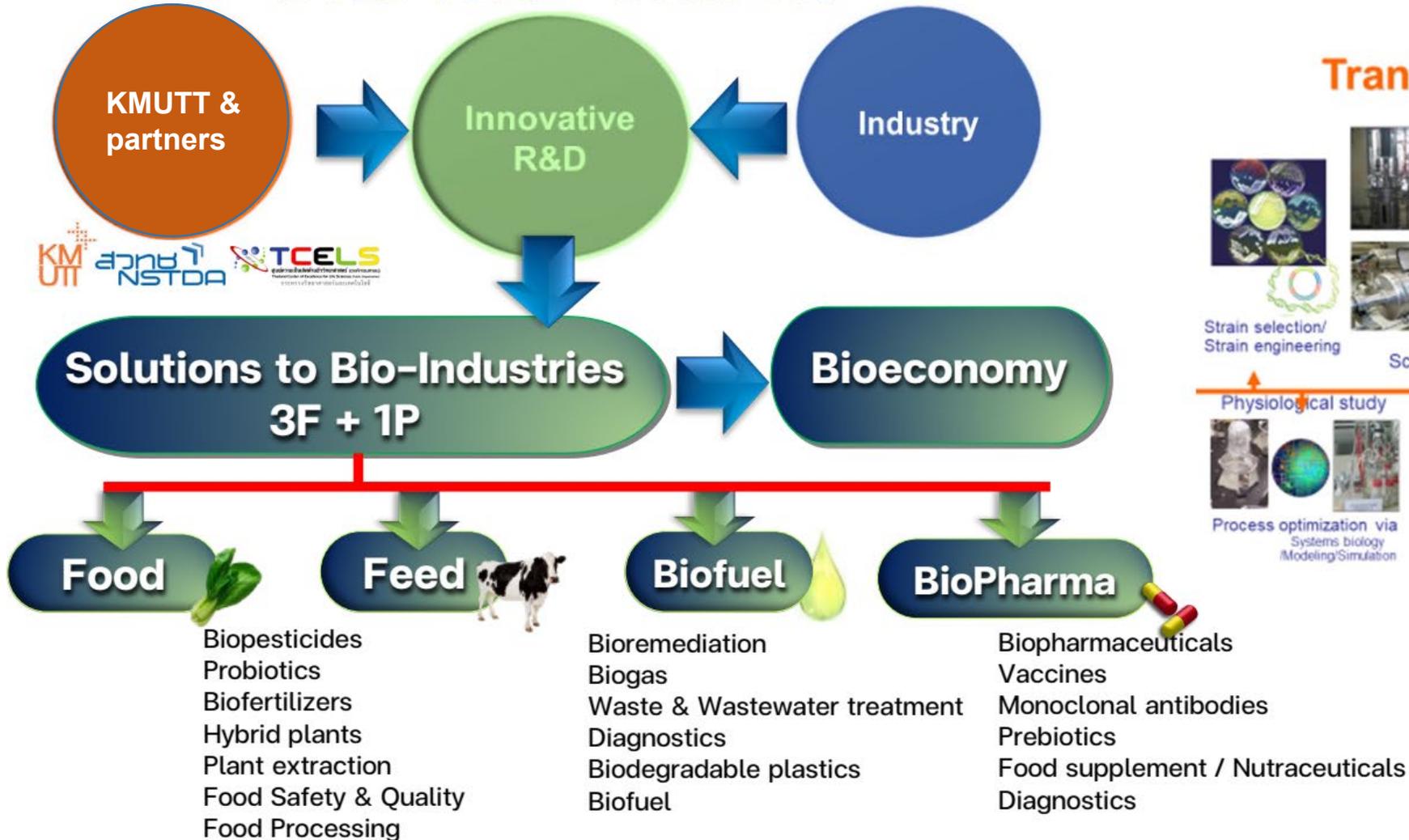


## Focused Missions



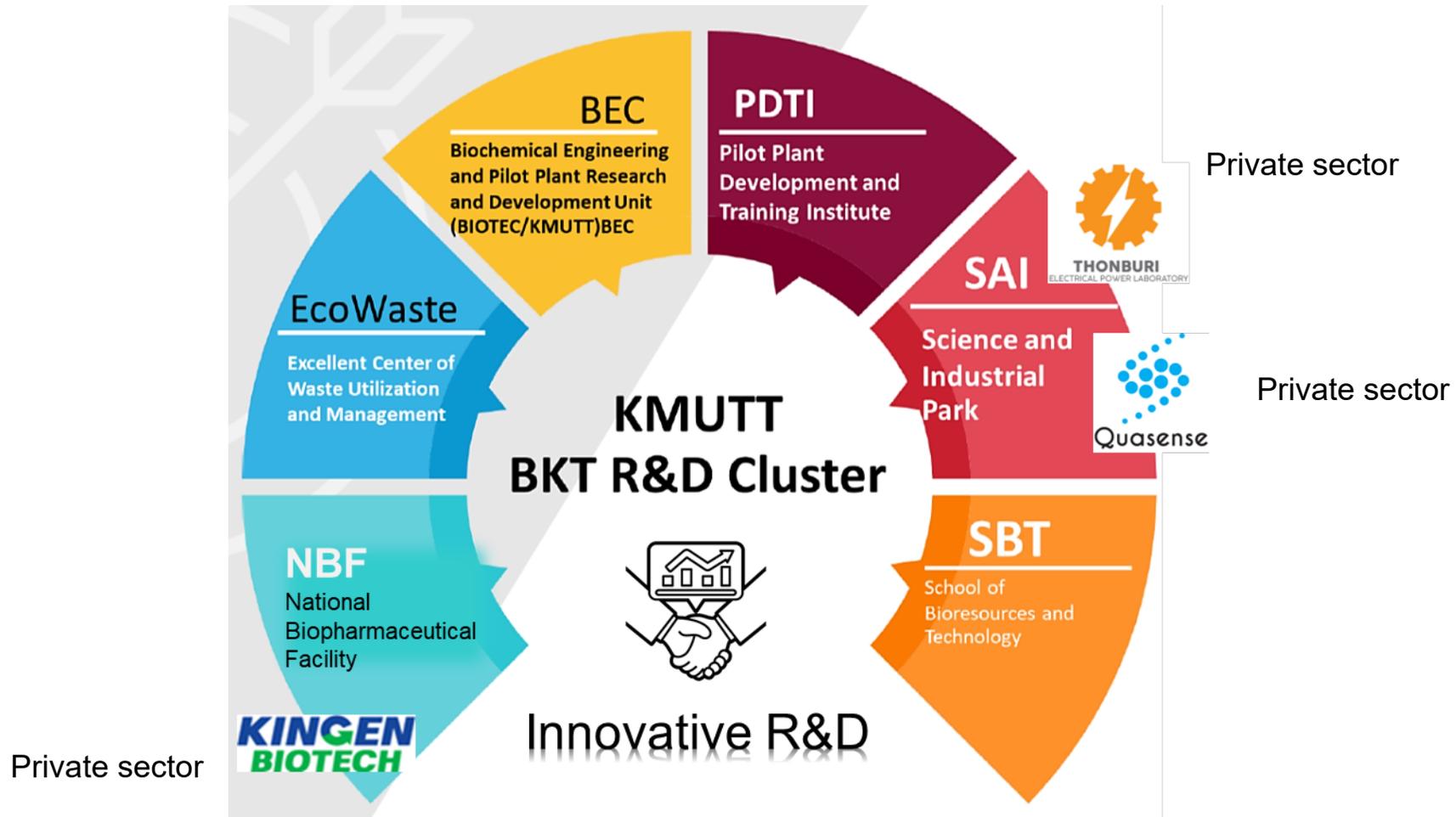
# Operating Model to support Thailand's Bioeconomy

## BKT R&D cluster



## Translational R&D Chain





## BKT R&D cluster's key stakeholders

# KMUTT Bangkhunthian: Learning Innovation and Industrial Park Campus



**The First and only University Industrial Park in Thailand.  
Currently, the official member of Regional Science Park Network and Food Innopolis Thailand**

## 1. Technology Incubator & Laboratory Area

### Bioprocess Research & Innovation Building



- GMP Food & Nutraceutical Pilot Plant & Biopharmaceutical Lab
- Seminar and conference rooms for 40 to 120 participants
- Central R&D Equipment services
- Total Area 20,000 sq.m

### Support Services



300% Tax Deduction for R&D



Financial support for SME



Startup & Entrepreneur



THAILAND  
BOARD OF  
INVESTMENT

BOI



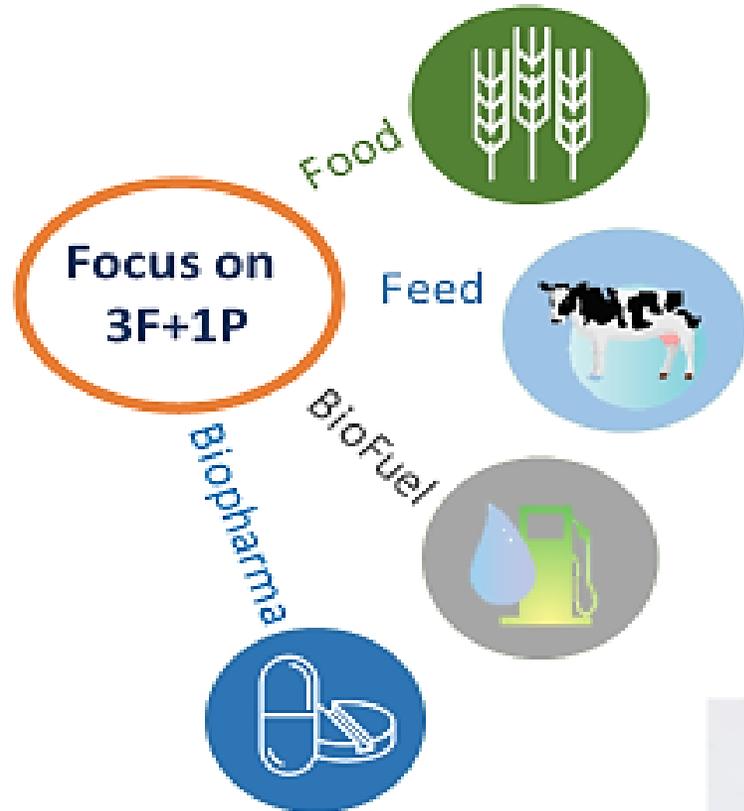
Thailand Most Influential  
Food Innovation Platform

## 2. Bioprocess scale-up + pilot scale equipment

### BKT R&D Cluster

Services: R&D Facilities and Technology Services

Applications



- Fermentation Pilot Plant & Equipment
- Contract R&D
- Collaborative R&D
- Training by design

## 3. R&D + Technical Consultants

Close collaboration with experts in bio-based technology - BKT R&D Clusters



Algal Biotechnology



Sensor Technology



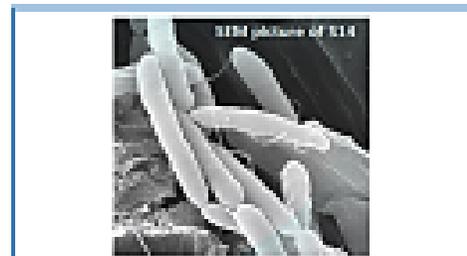
Systems Biology &  
Bioinformatics



Bioprocess  
Development



Food Technology &  
Engineering



Enzyme Technology



Waste Utilization &  
Management



Biopharmaceuticals

# Key Success Factors



**Financial Support  
from Gov. for  
infrastructure**



**Strategic partnership**



**Meet customer/industry  
requirement**



**From lab. to pilot scale  
(Translational research)**



**Technology incubator for  
SMEs**



**Technology transfer for  
commercialization**

# THANK YOU

King Mongkut's University of Technology Thonburi Bangkhunthian

