Bio-Circular-Green Economy Model: The Sustainably Growing Mechanism for Thai Food Industry

Submitted by: Thai Chamber of Commerce
BCG Economy Model

The Sustainably Growing Mechanism for Thai Food Industry

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Processed Food and Future Food Business Committee (PFC)

Processed Food and Drink

Future Food

Standard and Regulation

Activity and Communication
PFC ACTIVITIES

Capacity Building Program

Advisement Program

Social Communication

Networking

Create Joint Project
Bio-Circular-Green Economy Model (BCG)

Efficient use of natural resources with less impact on the environment
4 Strategic Areas of BCG Model

- Food and Agriculture
- Medical and Wellness
- Energy / Material / Biochemicals
- Tourism and Creative Economy
Carbon Footprint Certify in Thailand

Trend of Organization Certify

Trend of Product Certify
Thai Food & Agri Industry

Long Supply chain

Total Value
฿3 trillion ($87 billion)
18% of Thai GDP

Export Value
฿1.2 trillion ($35 billion)
+ 11.5% YoY
What are Thai Future Foods?

Whole Foods & Processed Foods

Safety

Traceability

Eco Friendly

Healthy
Thai Future Foods Category

1. Functional Foods and Drinks
2. Novel Foods
3. Medical Foods
4. Organic Foods
Thai Future Foods Export Value

million USD

2014: 2348 (+5%)
2015: 2454 (+4%)
2016: 2564 (+8%)
2017: 2758 (+10%)
2018: 3033 (+10%)
2019: 3186 (+5%)
2020: 3175 (-0.3%)
2021: 3331 (+5%)
Q1-2021: 805 (+24%)
Q1-2022: 1003
Domestic Future Foods

Domestic Consumption
- Value: ฿2.4 billion ($720 million)
- Growth Rate: 20% YoY

Vegetarian Food
CAGR 15-20%
Market Players vs Consumers

**Market Players**
- Consumers Positive Response
- Government Support for R&D

**Consumers**
- Product Variety
- Delicious
- Food Nutrition
- Eco Impact
Sufficiency Economy vs BCG Economy
BCG Model for Food & Agri

- Creative Entrepreneurs
- Startups & Innovation-Driven Enterprises (IDEs)
- Deep Technology Developer
- High Value Service Provider
- Smart Farmers
- Manpower Development
Preferred Fields

- Taxonomy
- Systems Biology
- Bioinformatics
- Life Sciences
- Computer Engineering
- Data Science
BCG Model for Food & Agri

- Ingredients from local produce.
- Smart farming technology
- Digital technology
- Big data
- Eco-friendly packaging

✅ Increase productivity
✅ Extend shelf life
✅ Reduce the use of chemicals
✅ Reduce food loss & Food waste

The manufacturing process

- New machinery
- Research and development of advanced machines
- Digital tracking systems

✅ Increase capacity and productivity
✅ Create added value from by-products
✅ Increase control inventory and trace food safety
✅ Reduce energy consumption and labor
✅ Reduce waste
Thai Brands Future Food
THANK YOU