



Incentivized ESG-aligned Investment: Board of Investment Thailand (BOI)'s Policy and Strategic Direction

**Thailand, Board of Investment
November, 2025**

Agenda

A close-up photograph of a laboratory setting. In the foreground, a metal microscope objective lens is positioned above a sample. In the background, several white microcentrifuge tubes are visible, some containing orange-colored liquids. The lighting is soft and focused on the microscope tip.

01

**Global Biotechnology
Landscape**

02

Biotechnology
Development in Thailand

03

BOI Investment Incentives

04

Supporting Services

The Application of Biotechnology Across Sector

Biotechnology now encompasses a wide range of fields. Every year, new technologies and products are developed in fields such as **medical**, **agriculture**, and **industrial biotechnology**.



Medical

- Genomic Analytic Techniques: detecting and diagnosing the disease caused by anomaly genetic or infection
- Healthcare Infrastructure: increasing in number of laboratories, more modern, more facilitative



Agriculture

- Increase productivity with long-term solution
- Develop new crop features and germplasm by breeding and gene sequencing

Supporting Factors Driving Biotechnology Development



Technological
Advancement



Government
Support Policy



Investment &
Infrastructure

Top Biotechnology Industry Trends (1)

Artificial Intelligence



26%

Automating a wide range of processes, helping them scale up their operations.

Big Data



19%

Utilizing big data and analytics solutions, integrating data from sensors and IoT devices.

Gene Editing



12%

Broadening gene therapy, treating genetic disorders and other conditions by adding, replacing, or silencing specific genes.

Precision Medicine



10%

Physicians can determine effective treatment and prevention strategies for specific groups.

Gene Sequencing



9%

Physicians can determine effective treatment and prevention strategies for specific groups.

Furthermore, targeted gene modification facilitates the creation of superior transgenic plants and animals.

** Percentage represents proportion of global startups and scaleups investing in these emerging technologies (from 4,351 startups and scaleups surveyed by StartUs insights)*

Top Biotechnology Industry Trends (2)

Biomanufacturing



7%

Utilizing biological systems for production and specialty chemicals.

Synthetic Biology



5%

Synthetic biology ensures standardization and reproducibility, manipulating organisms at the gene network level.

Bioprinting



5%

Working with bio-inks derived from bio-based materials or biomaterials, are utilized.

Microfluidics



4%

These miniaturized labs enable affordable, swift testing of infectious diseases, paving the way for point-of-care diagnostics.

Tissue Engineering



3%

Enables the creation of autologous tissue grafts for treating burns and organ transplantation and for regenerative medicine.

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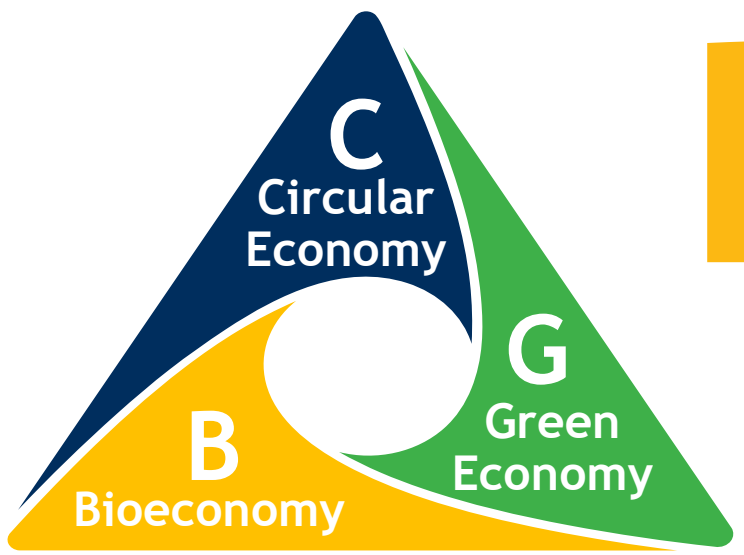
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Biotechnology as Part of BCG Economy

BCG Economy Model



To employ Science, technology and innovation to create economic value from the country bio-diversification (B), utilize a good balance of natural resources (C), reduce environmental impact (G).

B

- The agriculture, forestry and fisheries industries' products are raw materials for bio-manufacturing.
- The bioeconomy is the largest component of the BCG economy.

C

- Aiming to
- reduce fossil fuel consumption
 - improve energy efficiency
 - decrease the amount of waste

G

- Aiming to
- Create economic, social and environmental sustainability
 - Reduce the use of Natural Resources and Environment Impact

Area of Biotechnology Application in BCG Economy Model



Biochemical



Biofuel



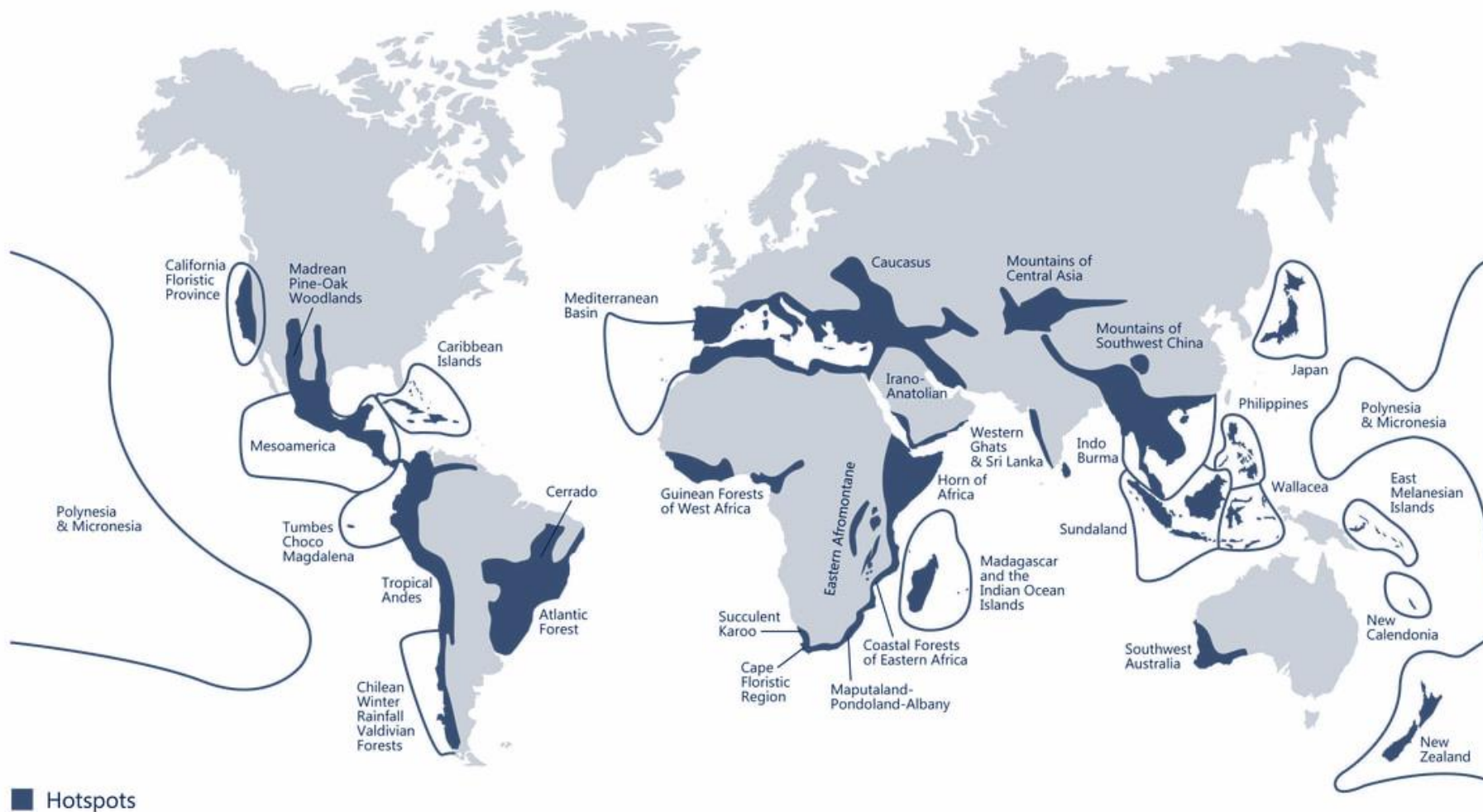
Bioplastic



Biopharma

Thailand's Assets to Strengthen BCG Economy: Richness in Biological Diversity

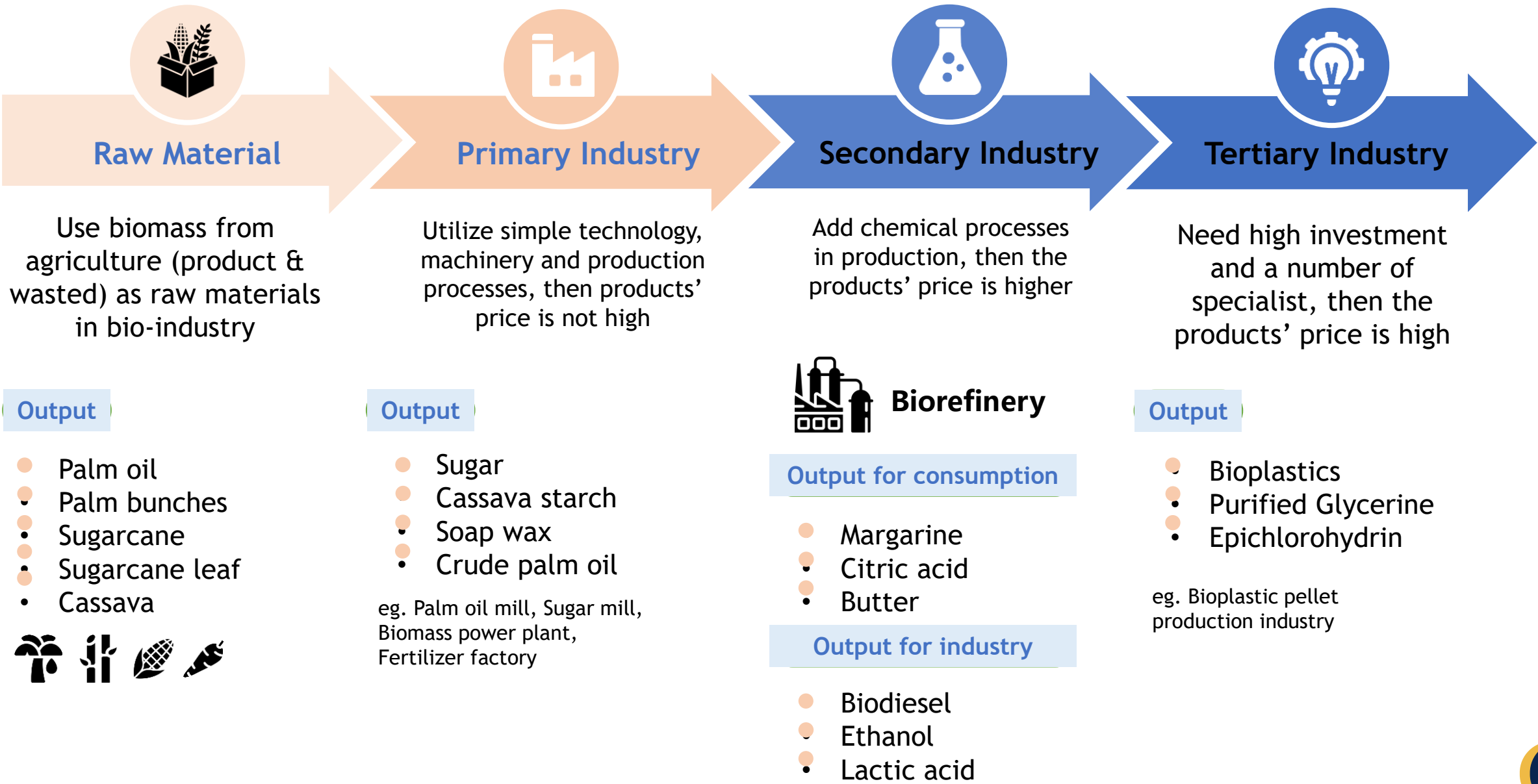
Thailand is part of what is called the Indo-Burma 'biodiversity hotspot'.



- Home to
- 15,000 plant species, around 8% of the global total
 - over 11,900 marine invertebrate species and account for 10 % of the estimated total fish species worldwide.
 - 302 mammal species; over 980 bird species; 320 reptile species; and 120 amphibians.

ranked as **8th** most bio-diverse region in the world. and **3rd** in Southeast Asia for the diversity of the ecology.

Biotechnology is applied throughout the supply chain of the BCG Economy



Examples of Biotechnology Application in Thai's Industry

Biotechnologies Used in Production	Product
• Biopharma and Bioceutical Production Technology	▶ Biopharmaceutical and Bioceutical
• Pharmaceutical Processing and Formula Development Technology	▶ Cosmetic
• Recombination DNA processing, Vaccine production system, and formylation system	▶ Human vaccine
• Plant Advance Breeding, Antimicrobial, DNA Marker for Plant Develop	▶ Packaging-design, Printing
• Organic Product Manufacturing Technology for Plant and Animal	▶ Organic product, Fertilizer
• Carbohydrates Fermentation Technology, Purification Techniques	▶ Lactic Acid, lactates
• Fermentation Technologies, Extractions, Characterization, Purification Technology	▶ Ethyl Alcohol (Bioethanol)
• Bioorganic Technology	▶ Bio-cleansing

Sector of Opportunities



Agenda

A close-up photograph of a laboratory setting. In the foreground, a microscope's objective lens is positioned above a sample. The lens has a '10' marking. In the background, several white test tubes are visible, some containing orange-colored liquids. The overall lighting is a mix of blue and orange.

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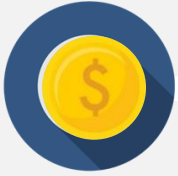
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BOI's Role: To Drive the Investment to the New Economy

About BOI



Promoter

Drives & Promotes Investment in Private Sector in Alignment with the Country's Development Strategy & The Changing World Context



Integrator

Integrates Government Support Tools such as Tax, Finance, & Non-tax Incentives in a Whole Package



Facilitator

Coordinates with Agencies to Develop The Ecosystem & Facilitate Ease Of Investment & Eliminates Problems/ Obstacles



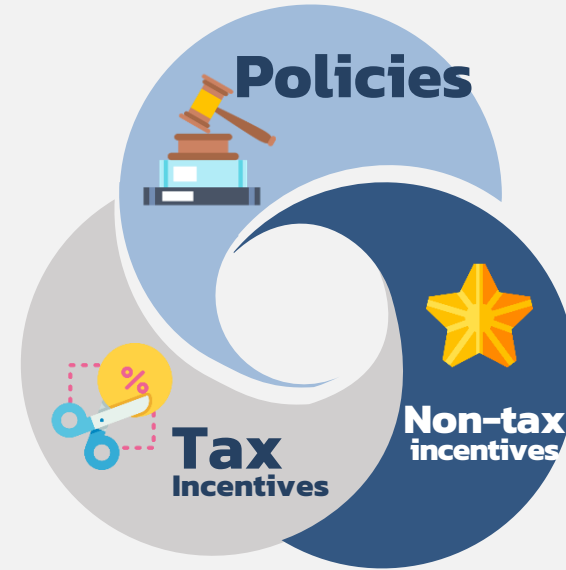
Connector

Links Large-scale with Small-scale Enterprises, Thais with Foreigners, across Industries & Locations to Expand Business Opportunities

Overseas Office



BOI's Investment Promotion Measures



- Land ownership
- Work permit & visa facilitation
- 100% foreign ownership
- No export requirements
- No restrictions on foreign currencies

- Corporate income tax exemption up to 13 years
- 50% Corporate income tax reduction for 5 years
- Exemption of import duties on machinery
- Exemption of import duties on raw or essential materials imported for exports
- Exemption of import duties on goods imported for R&D
- Double deduction for the cost of transportation, electricity and water
- 25% deduction for the cost of installation or construction of facilities

5-Year Investment Promotion Strategy (2023-2027)

New Economy

Promoting investment to advance toward a new economy and create a better future for the next generation

Innovative

Competitive

Inclusive

1

Restructure industries and strengthening supply chains

2

Accelerate industrial transition toward Smart & Sustainable Industry

3

Positioning Thailand as an international business hub and regional trade gateway

4

Strengthen SMEs & Startup and Connect to Global market

5

Promote investment based on regional potential to create inclusive growth

6

Promote investment for community & society

7

Promote Outbound Investment to expand business opportunities

7

Pillars

X

3

Tools

01

Whole Package Incentive (Tax + Non-tax + Financial Incentives)

02

Comprehensive services, both pre- and post-investment

03

Ecosystem & Ease of Investment

Investment Promotion measures for **Targeted Industries**

BOI Investment Incentive Scheme

Basic Incentives

Activity-Based

- Agriculture, Food & Biotechnology
- Medical
- Machinery and Vehicles
- Electrical and Electronics
- Metal and Materials
- Chemicals and Petrochemicals
- Public Utilities
- Digital Industries
- Creative Industries
- High-Value Services

Incentive

≤13 years CIT exemption



Additional Incentives

Competitiveness Enhancement

- Research & Development (R&D)
- Support academic/ research institutes, or technology and human resource development fund
- IP licensing fee
- Advanced technology training
- Development of local suppliers
- Product and packaging design

Area-Based

- EEC 3 provinces
- SEZ 10 provinces
- 4 Special Economic Corridors
- Southern border provinces
- 20 provinces with lowest income
- Industrial Estates/Zones
- Science and Technology Parks (TSP, Food Innopolis, Space Krenovation Park)
- Yothee Medical Innovation District

Agenda-based

- Investment Stimulation Measure for Economic Recovery
- Smart and Sustainable Industry Measure
- Social and Local Development Measure
- Comprehensive Relocation Measure
- Retention and Expansion Measure
- Measure to Support the Establishment of Highly-skilled Professional Development Institutes

Investment Promotion Approach



Upgrading Outstanding Existing Industries, Creating New Industries with Potential

Stimulating Large-scale Investments, Building Robust Supply Chains through Investment Acceleration Measures



Accelerating Transition to Smart & Sustainable Industries, Enhancing Competitiveness and Sustainability

Target Industry Groups include Agro-biotechnology, Food, Medical, Advanced Electronics, and Modern Automotive



Promoting SMEs and Startups to Strengthen and Connect to Global Markets

Adopting New Technologies, Accessing Capital Markets, Connecting with Large Enterprises through Support Funds

Promoting Activities for Community and Social Development through Investment Promotion Measures for Community and Social Development, Creating Participation from all Sectors, Fostering Sustainable Community Empowerment

Human Resource Development

Supporting companies that invest in HR development and establish STEM institutes to support target industries such as Semiconductor, Electronics, Digital, and Data Centers



5+2 Strategic Industries

**Bio-based
and Renewable
Energy**

Automotive: xEV

**Advanced
Electronics**

Digital & Creative

RHQ & IBC
(Regional Headquarters and
International Business Center)

Upstream Industries



**Battery and Energy
Storage**



Semiconductor

Other Targeted Industries



Healthcare and Medical



**Automation and
Robotics**



**Aviation and
Aerospace**



**Advanced
Materials**



**High Value-added
Services**

Investing in BCB economy will be incentivized



B

- Efficient Resource Utilization
- Increase Production
- Create Added Value
- Reduce CO2 and Waste



C

- Utilize products with its entire lifecycle
- Recycle and Reuse
- Minimize Waste



G

- Efficient Resource Utilization
- Create Sustainability
- Reduce Greenhouse Gas Emissions

Investment Incentives for BCG Activities



**Tax Exemption/
Reduction**



**Non-tax
Incentives**

CIT Exemption for BCG Activities

B

- Economic forest plantation and Energy crops plantation (8 Years)
- Animal propagation or animal husbandry (5 Years)
- Natural Rubber Products (8 Years)
- Future Food (8 Years)
- Natural Extracts (5-8 Years)
- Plant or animal breeding (5 Years)
- Plant Factory (5 Years)
- Biological fertilizers (5 Years)
- Fuel or pharmaceutical grade alcohol from agricultural products (8 Years)
- Bioplastic (8 Years)
- Biochemicals (8 Years)
- Biotechnology (8 Years)
- Biotechnology development (10 Years)

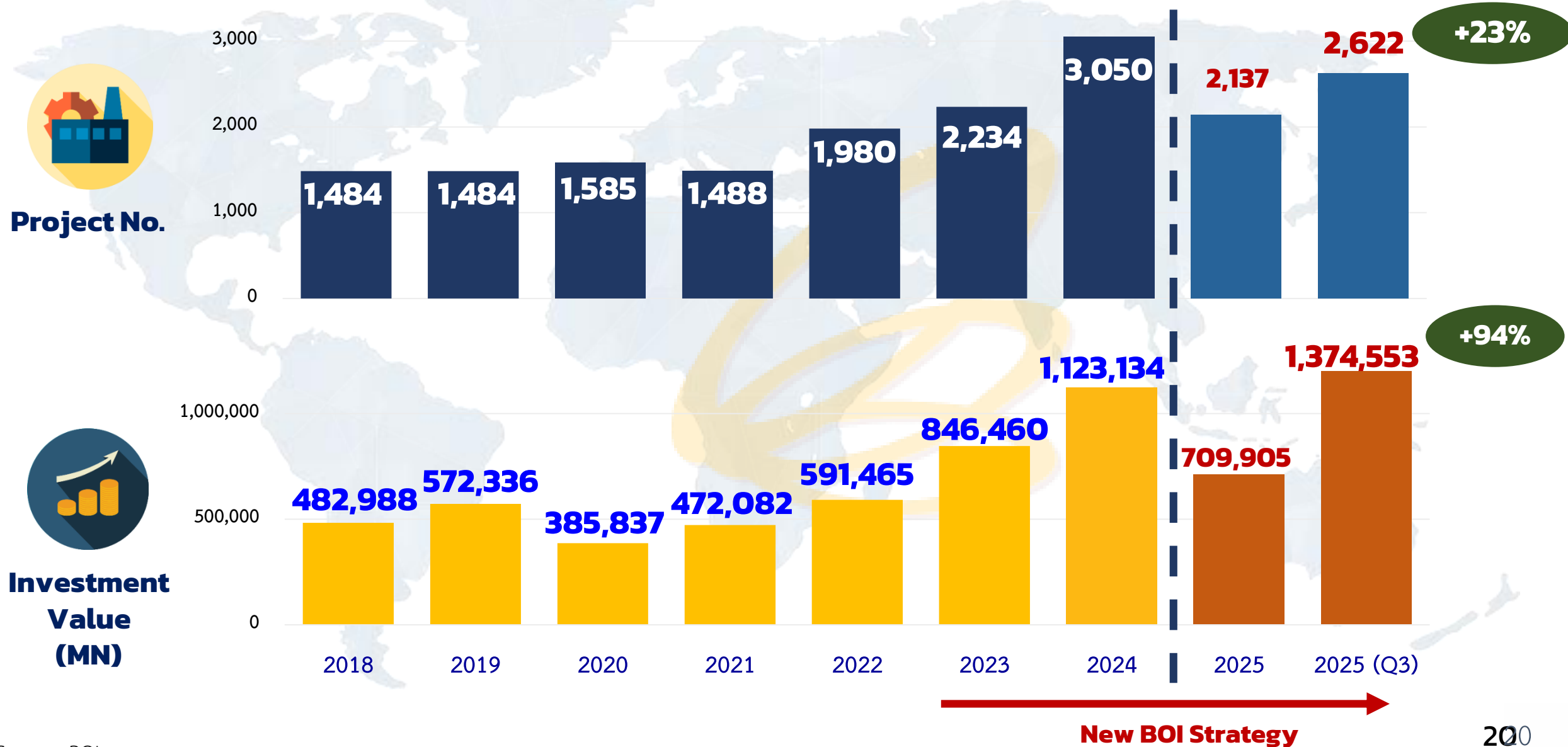
C

- Electric energy or renewable energy (8 years)
- Hydrogen from water using hydrokinetic energy (8 years)
- Recycling/recovery activities (8 years)
- Fiber recycling (3 years)
- Recycled plastic pellets (3-8 years)
- Recycled paper tissue (3-5 years)
- Fuel from agricultural waste (8 years)
- Fuel from RDF (Refuse Derived Fuel) (8 years)
- Compressed biomass fuel (5 years)

G

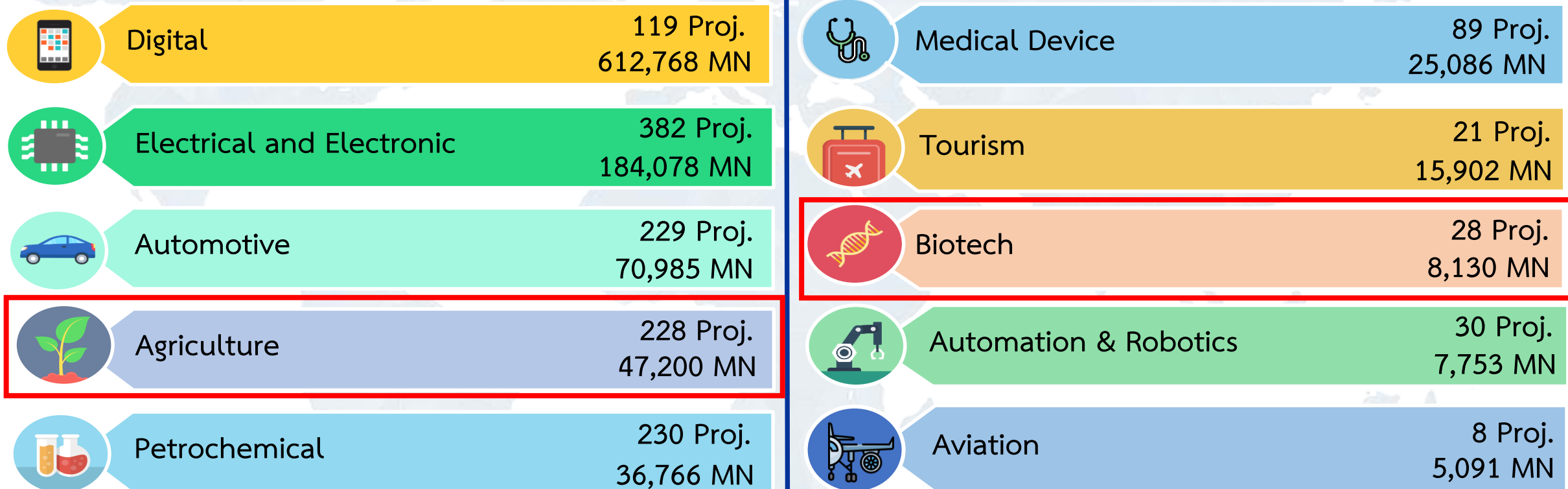
- Energy management services (8 years)
- Machinery, equipment, and modern agricultural systems (3-8 years)
- Electric vehicles, solar energy, fuel, and equipment for fuel cell systems (8 years)
- Environmentally friendly packaging (5 years)
- Petrochemical/gas separation plants using environmentally friendly technologies such as CCUS (8 years)

Application for Investment Promotion for the Year 2018 – 2025 (Q3)



Application for Investment Promotion for the Year 2018 – 2025 (Q3)

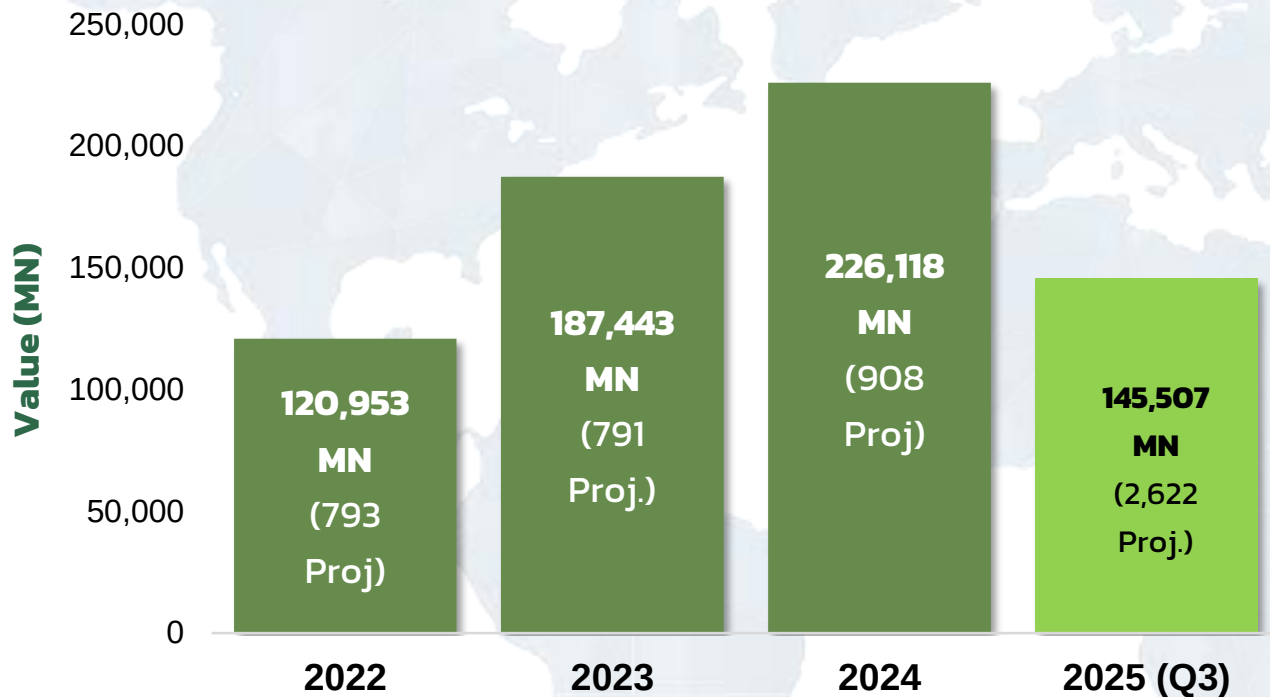
2,622 Projects with Investment Value of 1,374,553 Million Baht (Jan – Sep 25)



- Production of Electricity and Steam from Renewable Energy 74,212 MN
- Rail Transportation (Orange Line) 109,216 MN
- Other e.g. Industrial Estate Dev, Transportation & Logistic 177,362 MN

2022 – 2025 (Q3)

BCG Applications Totaled 638 Projects,
with a Combined Investment of 145,507 MN



NOTABLE PROJECTS IN RECENT YEARS



Manufacture of biofuels, including SAF Reducing carbon emissions in the aviation industry from renewable feedstocks



Manufacture of Cellulosic Enzyme Converting cellulose from natural feedstocks into glucose for bioplastics production through a biological process



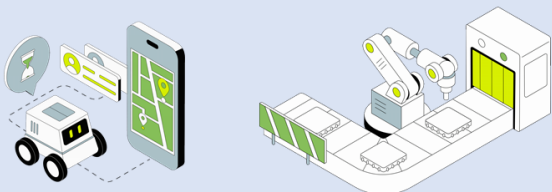
Manufacture of Bioplastics Using agricultural products as feedstocks to produce bioplastics pellets

EXAMPLES OF APPROVED PROJECTS / CURRENTLY IN OPERATION



SMART

- 1 Automation and Robotics
- 2 Digital Technology
- 3 Industry 4.0



SUSTAINABLE

- 4 Energy Conservation, Alternative Energy, Environmental Impact Reduction
- 5 International Standards of Sustainability such as GAP, FSC, PEFCs, ISO 22000



**A 3-YEAR CIT EXEMPTION
ON EITHER 50% OR 100%**
of the investment value,
subject to qualifying criteria

SUPPORTING ENTREPRENEURS IN INVESTING TO ENHANCE PRODUCTION & SERVICE EFFICIENCY TOWARD SMART & SUSTAINABILITY

RECENT BOI ANNOUNCEMENT

- The discontinuation of solar system electricity production installations
- Max. investment (for tax exemption) to support BESS (Battery Energy Storage Systems) and inverter-related investments is now capped at ~319,000 EUR per 1 MW of electricity generation capacity.

Note: Projects submitted from the date of the announcement until June 30, 2025, will not be granted an extension for accepting the promotion approval and submitting the supporting documents for the promotion certificate.

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HQ Biz Portal Service

NEW

<https://hqbizportal.boi.go.th>



WHY THAILAND? INCENTIVES & LICENSES HQ JOURNEYS APPLICATION FAQ ABOUT Q

HQ BIZ PORTAL is set up in collaboration with Thailand's key government agencies.



BANK OF THAILAND

For more info

CLICK

<http://hqbizportal.boi.go.th>

Information and Consultation
for Headquarters Establishment
at **ONE-STOP**

HQ BIZ PORTAL

enhancing Thailand's position as

**REGIONAL
HEADQUARTERS
DESTINATION**



Thailand Investment and Expat Services Center

The One start One Stop Investment Center (OSOS)
and One Stop Service Center for Visa and Work Permit (OSS)

- **Comprehensive information and advice on establishing operation in Thailand**
- **Coordination Services between Investors and government agencies**
- **1-Stop for visas & work permits in 3 hours**
- **More Convenience | More Efficiency | Less Time**



Contact us:



**One Bangkok
Parade Zone, 6th – 7th Floor
Rama IV Road, Lumpini,
Pathumwan, Bangkok**



0 2209 1100



osos@boi.go.th



4 Types of LTR Visa



Wealthy Global Citizens

Wealthy individuals holding at least **USD 1 million** in assets



Wealthy Pensioners

Retirees **aged over 50 years** who have an annual pension or stable income



Work-from-Thailand Professionals

Remote workers working for well-established overseas companies



Highly Skilled Professionals

Professionals in targeted industries working for

- business entities or higher education institutes
- research centers or specialized training institutions
- Thai government agencies



Dependents

Spouse, children under 20 years old, **parents and legal dependents** of LTR visa holders

new

LTR visa

for Long-Term Residents

Targeted industries for the **High-Skilled professional*** category are as follows :

Existing Targeted Industries

- Automotive Industry
- Electronics Industry
- Affluent Tourism Industry
- Agricultural, Food and Biotechnology Industry
- Transportation and Logistics Industry
- Automation and Robotics Industry
- Aviation, Aerospace and Space Industry
- Biofuels and Biochemicals Industry
- Petrochemical and Chemical Industry
- Digital Industry
- Medical Industry
- National Defense Industry
- Circular Economy
- International Business Center (IBC)
- **Highly-skilled professionals with specialized skills** **new**
 - e.g. Digital, AI Finance, Marketing Advisor, **University professors, Researchers and Educators in vocational sectors**

LTR Visa Privileges



10-year visa & Permission to work in Thailand



Fast Track Service at International Airport



90-day report extended to 1-year report and exemption of re-entry permit



Permission to Work in Thailand (Digital Work Permit)



17% Personal income tax rate for Highly-Skilled professionals and tax exemption from overseas income



Facilitation Services at One Stop Service Center for Visa and Work Permit



Exemption from 4 Thais : 1 foreigner employment requirement ratio

Remarks: The LTR visa will be granted for 5 years at a time and can be renewed every 5 years if qualifications are still met.

BOI Industrial Linkage Services

BUILD Supports

- **Customized Business Matching**
 - JV Partner
 - Talent Sourcing- Job Matching
- **Free Sourcing Services**
- **Local Sourcing Events**
 - Vendors Meet Customers Sourcing Events
 - Sourcing Market Place Center
 - Knowledge Enhancement for Local Vendors through Competitiveness
 - Development Seminar
- **International Sourcing:** Exhibit Thai Vendors Potential at International Exhibitions
- **Online Database/Website BUILD Platform**

Sample of Companies joining BOI Linkage Services



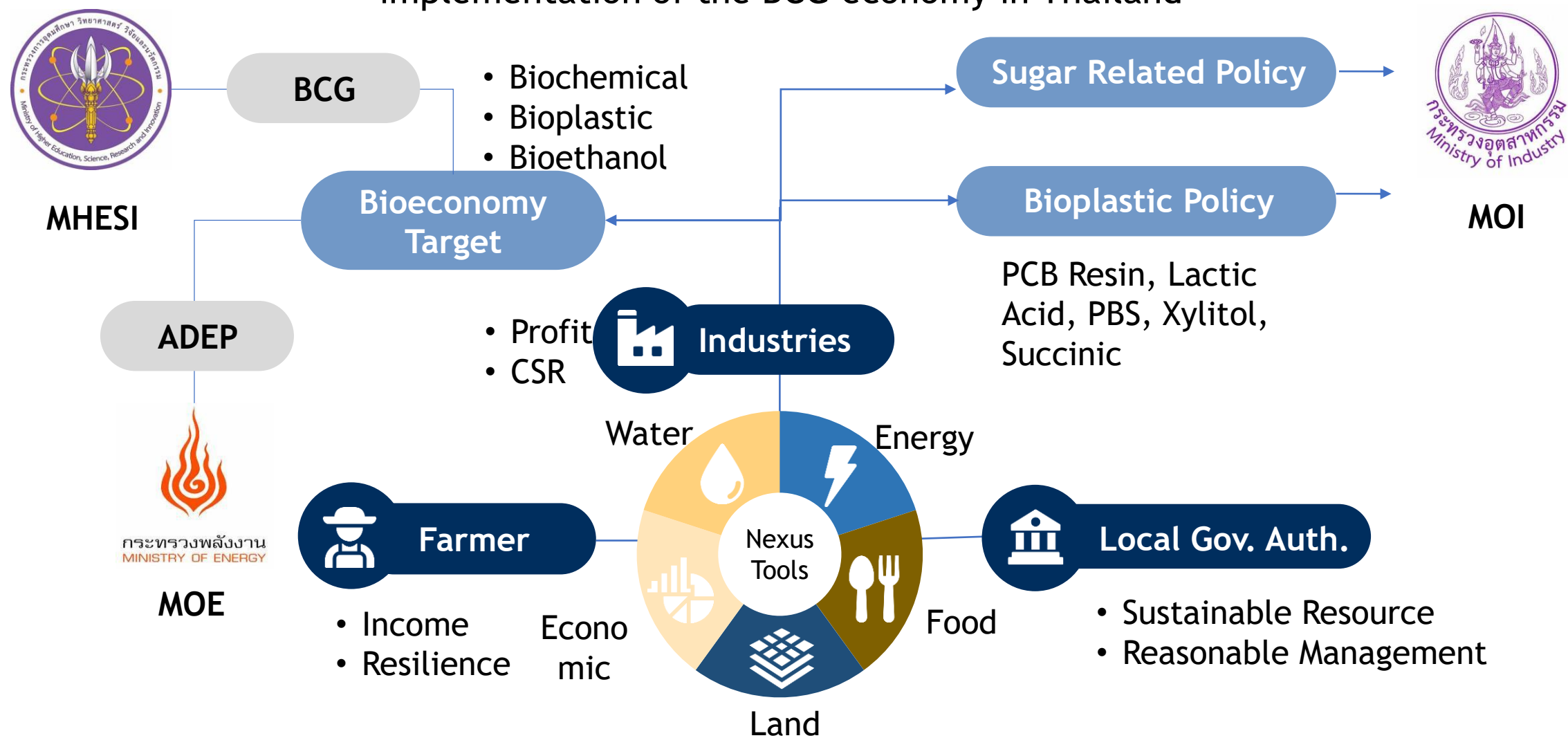
ASEAN'S LARGEST INDUSTRIAL SUBCONTRACTING AND BUSINESS MATCHING EVENT



THAILAND
BOARD OF
INVESTMENT

BCG Policy Network Integration

Various government agencies contribute to the development and implementation of the BCG economy in Thailand



NSTDA's Role in Biotechnology Development



NSTDA's role are categorized into 2 main roles which are:

1

Technology Transfer



Software Park Thailand



Eastern Economic
Corridor of Innovation



Thailand Science Park



Food Innopolis

2

Developing and Strengthening Research Capabilities



Funding



Knowledge

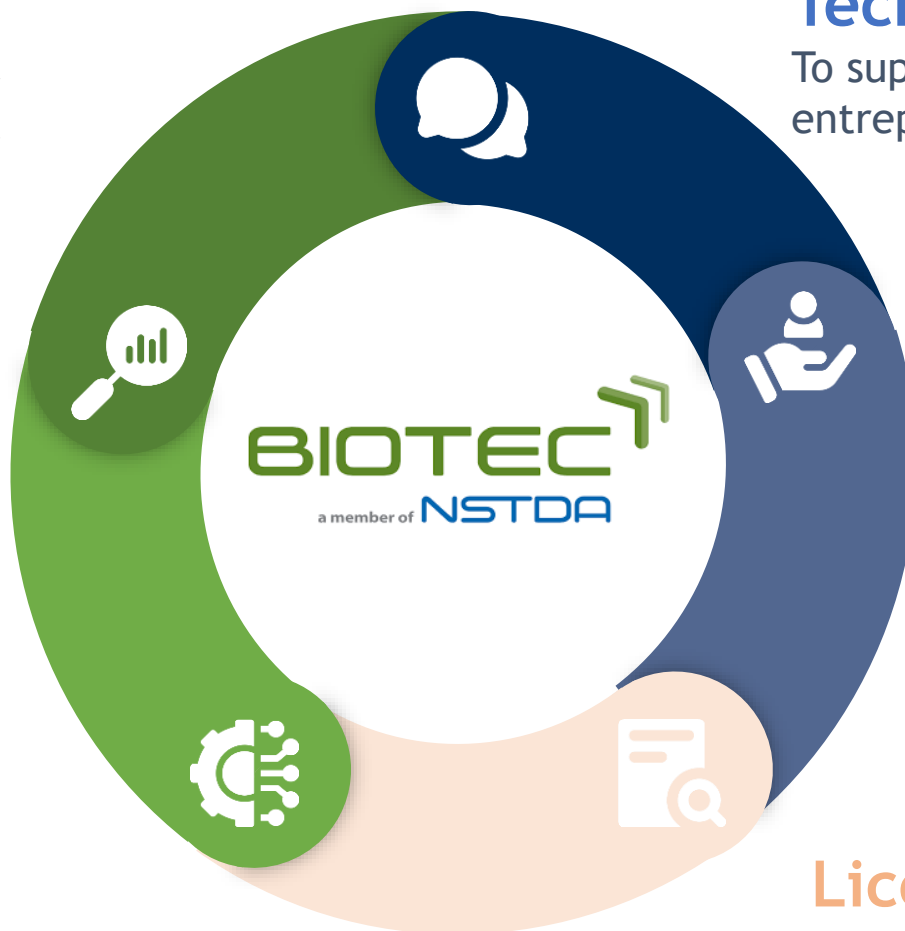
BIOTEC is another organization that supports the enhancement of biotechnology capabilities

Research:

To enhance competitiveness of the biotech sector

Technology Transfer:

To improve industrial processes and developing new industries or products



Consulting and Technical Services:

To support biotechnology entrepreneurs

Business Development:

To provide services to researchers or agencies

Licenses:

To encourage the commercialization of R&D results

Contact us:

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