

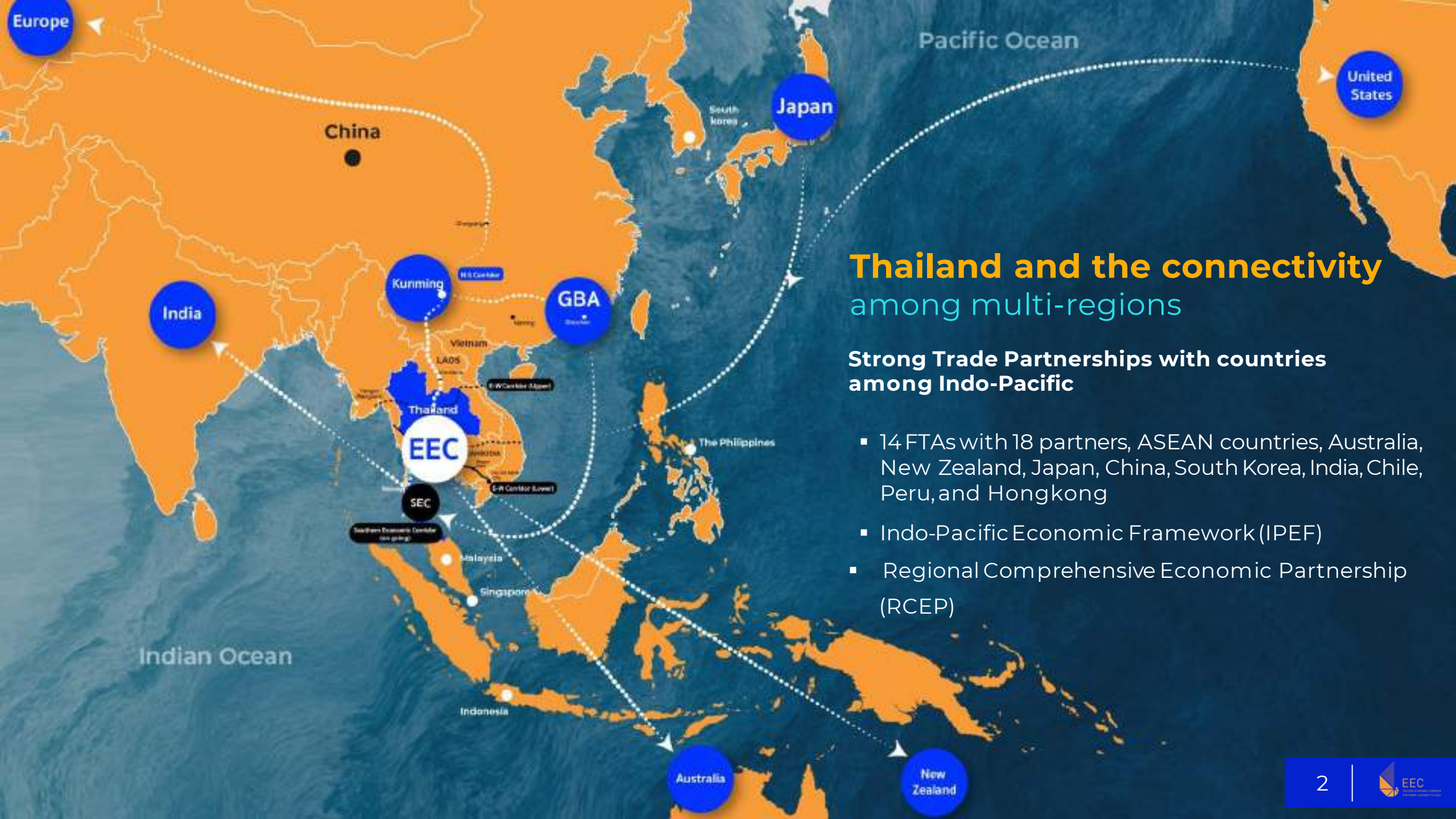


BUSINESS OPPORTUNITIES IN THE EASTERNECONOMIC CORRIDOR

Eastern Economic Corridor Office of Thailand

November 2023





Thailand and the connectivity among multi-regions

Strong Trade Partnerships with countries among Indo-Pacific

- 14 FTAs with 18 partners, ASEAN countries, Australia, New Zealand, Japan, China, South Korea, India, Chile, Peru, and Hongkong
- Indo-Pacific Economic Framework (IPEF)
- Regional Comprehensive Economic Partnership (RCEP)

The Thai economy overall continued to recover in 2023, albeit at a slower pace due to soft external demand. Growth should pick up in 2024, supported by both domestic and global demand.

Bank of Thailand's Projection of Thailand's GDP (% growth)



GDP %	2020	2021	2022	2023f*
Thailand	-6.2	1.5	2.6	2.8*

As of Nov 2023*

IMF	2.7
NESDC	2.5
BOT	2.8
MOF	2.7

EEC had a 2022 GPP of US\$ 74.2 bn (on a nominal basis) or about 15% of Thailand's GDP

EEC At a glance

THE EASTERN ECONOMIC CORRIDOR (EEC) lies at the heart of Thailand's 4.0 development strategy, aimed at restructuring and revitalizing the Thai economy.

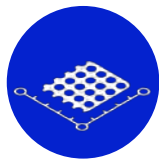
COMPLETE STRATEGIC LOCATION

“Creating an Inclusive Environment”

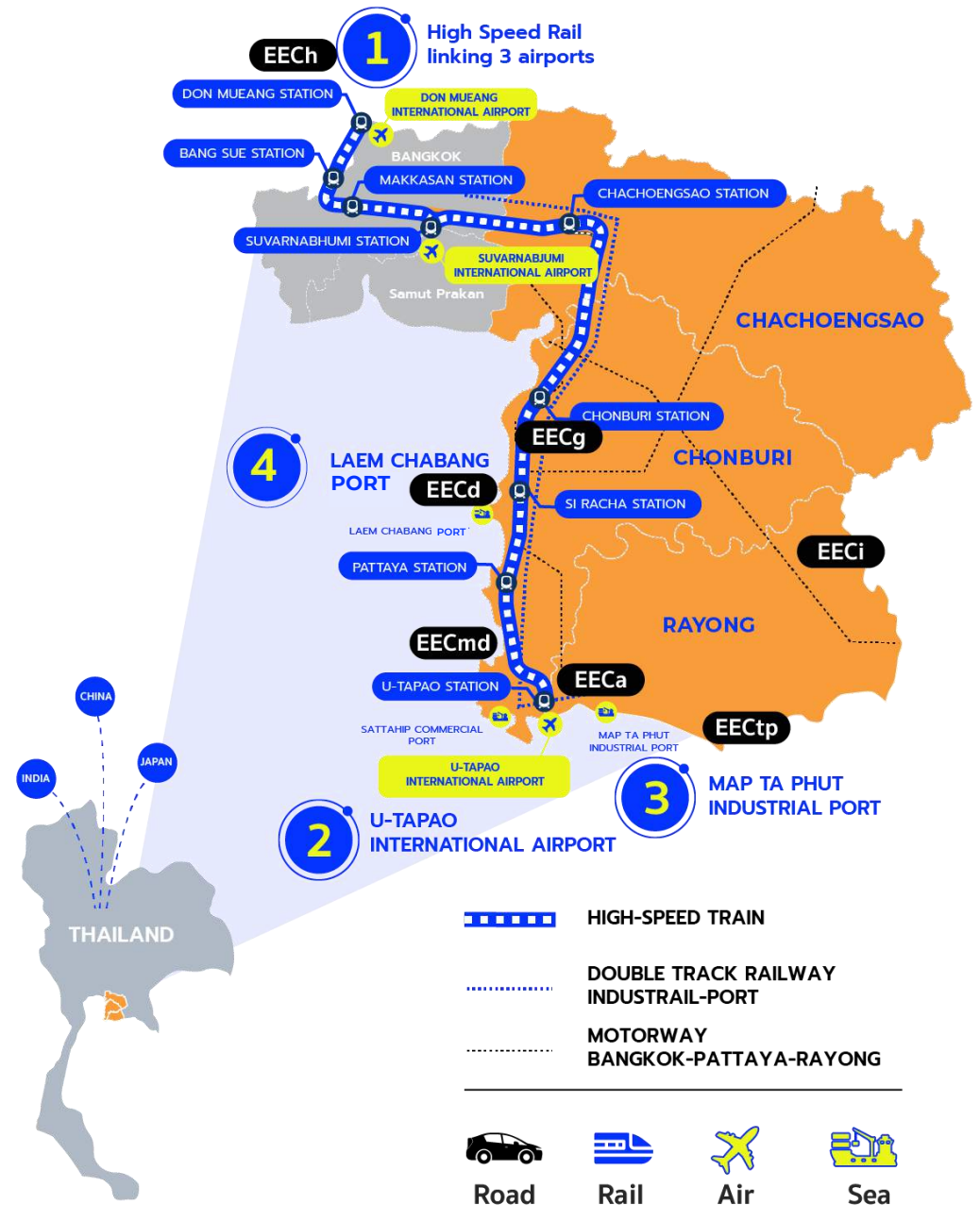
In 2017, the Royal Thai Government **initiated the Eastern Economic Corridor (EEC)** to be an area-based development initiative aiming to revitalise the well-known Eastern Seaboard where, for 30 years, numerous business developers have experienced a rewarding investment journey and achievements. The EEC project initially focused on the 3 Eastern provinces: Rayong, Chonburi, and Chachoengsao. The EEC development plan envisages a significant transformation of both physical and social development, uplifting the country's competitiveness



Location: Rayong, Chonburi, and Chachoengsao



Area : 13 Million Hectares (8.3 Million Rai)



There are 3 key development aspects of the EEC equipped with various mechanisms under the EEC Act



1. Dedicated Development Mechanism

- 12 Targeted Industries
- EEC Promotional Zones
- EEC Incentives
- EEC Licensing & Permit Scheme



2. Favorable Ecosystem

- EEC Demand-Driven Education & Training
- EEC Fund for the local community



3. Supporting Infrastructure

- EEC PPP Fast Track
- Public Utilities






Role and responsibility of investment promotion agencies in Thailand

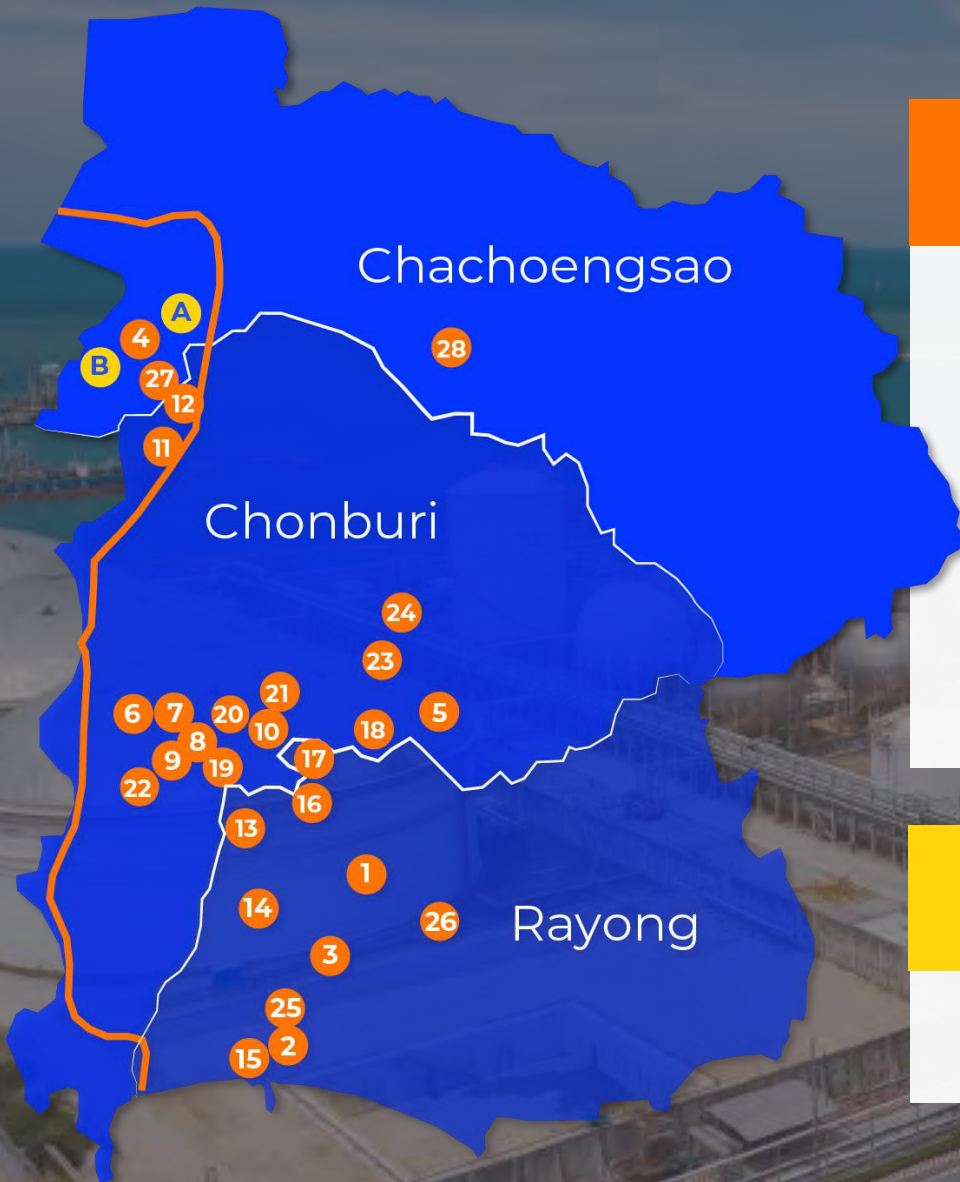
Authority & Function

Scope & Coverage

Benefits

Investment Promotion Act B.E. 2520 (1977)	Industrial Estate Authority of Thailand Act B.E. 2522 (1979)	Eastern Special Development Zone Act B.E. 2561 (2018)
<ul style="list-style-type: none"> • Nationwide • Thai investors • Foreign investors • SMEs, Startup 	<ul style="list-style-type: none"> • Nationwide • Thai investors • Foreign investors • SMEs, Startup 	<ul style="list-style-type: none"> • 3 EEC provinces • Thai investors • Foreign investors • 12 Targeted industries • Investors in business related to 12 targeted industries 
<ol style="list-style-type: none"> 1. Incentives 2. Ease of doing business 	<ol style="list-style-type: none"> 1. Industrial estate development 2. Incentives 3. Ease of doing business 	<ol style="list-style-type: none"> 1. Promotional zones 2. Incentives 3. Ease of doing business 4. Licenses/permits [Section 37 and 43]

EEC Promotional Zones



26 Industrial Estates

1. WHA Rayong Industrial Estate
2. Eastern Seaboard I.E. (Rayong)
3. WHA Eastern Industrial Estate (Map Ta Phut)
4. WHA Eastern Seaboard I.E.1
5. WHA Chonburi I.E.1
6. WHA Chonburi I.E.2
7. WHA Eastern Seaboard I.E.2
8. WHA Eastern Seaboard I.E.3
9. WHA Eastern Seaboard I.E.4
10. CPGC I.E. (Rayong)
11. Amata City Chonburi I.E.
12. Amata City Chonburi I.E. (2ndProject)
13. Amata City Rayong I.E.
14. Pinthong Industrial Estate
15. Pinthong Industrial Estate (Laem Chabang)
16. Pinthong Industrial Estate (3rdProject)
17. Pinthong Industrial Estate (4thProject)
18. Pinthong Industrial Estate (5thProject)
19. TFD I.E. (2ndProject)
20. Yamato industries I.E.
21. Smart Park I.E.
22. Asia Clean
23. Rojana Nongyai
24. Rojana Lamchabang
25. WHA Industrial Estate (Rayong)
26. EGCO Rayong Industrial Estate

2 Industrial Clusters

- A. Next-Generation Automotive Banpho
- B. E-Commerce Bang Pakong

7 PROMOTIONAL ZONES For Specific Industries

EECg

HEALTH & WELLBEING

Genomics Thailand

Location: Burapha University, Chonburi
Area: 0.6 Hectares (3.69 Rai)

- **Genomics testing hub in EEC is built upon a collaborative research network, empowered by Next-Generation Sequencing Technology**

EECd

DIGITAL

Digital Park

Location: Si Racha District, Chonburi
Area: 113.28 Hectares (708 Rai)

- **Destination for digital biz innovation which consists of a world-class data center, fully equipped digital innovation testbed, and IoT institutes**

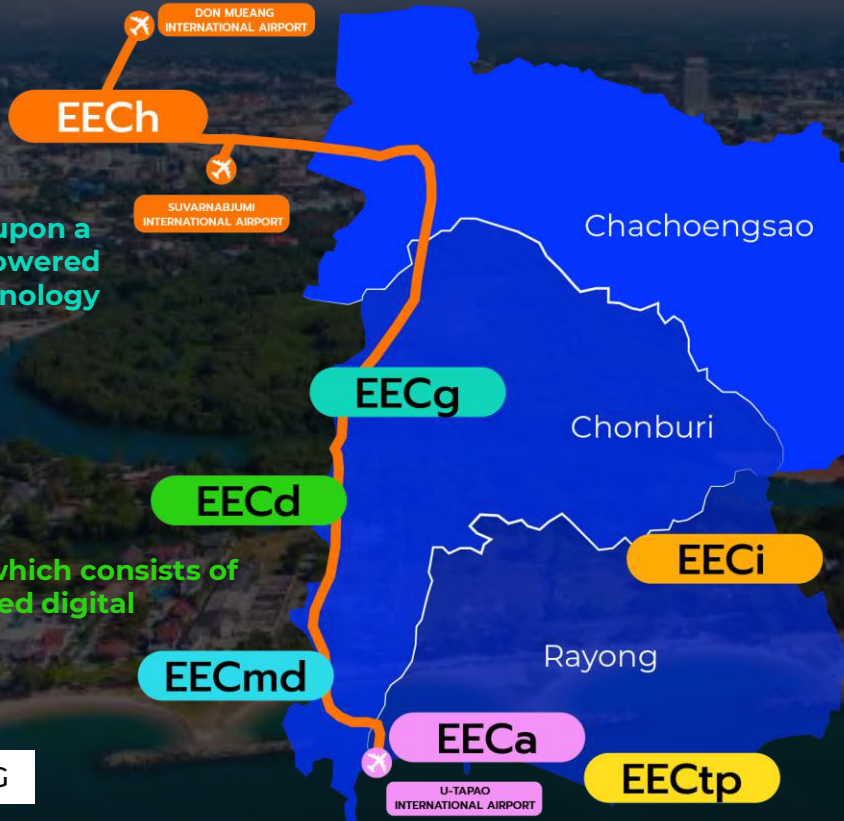
EECmd

HEALTH & WELLBEING

Medical Hub

Location: Bang Lamung District, Chonburi
Area: 90.56 Hectares (566 Rai)

- **Aspired to become Thailand's first mental hub, which aims to elevate Thailand's health services and expand its aging population.**



EECh

TRANSPORT/ LOGISTICS/ SERVICES

High-Speed Rail Ribbon Sprawl

Location: Along the high-speed rail track that crosses Don Mueang, Suvarnabhumi, and U-Tapao Airport Distance: 220 Km

- **Consists of a High-Speed Railway and the Transit-Oriented development area (TOD located at the Makkasan and Si Racha Station)**

EECi

HEALTH & BCG TECHNOLOGY

Innovation

Location: Wangchan Valley, Rayong Area: 480 Hectares (3,000 Rai)

- **Designed to promote innovation and upgrade modern technology that will serve future business needs.**
- **A complete 'innovation ecosystem' will transform technological and innovation research into practical industrial applications.**

EECtp

DIGITAL

Tech Park Ban Chang

Location: Ban Chang, Rayong Area: 83.4 Hectares

- **Serve as the centerpiece of the EEC's audacious effort to be the ultimate frontier for centers of advanced technology innovation.**

EECa

TRANSPORT/ LOGISTICS/ SERVICES

Eastern Airport City

Location: U-Tapao International Airport (UTP) Area: 1,040 Hectares (6,500 Rai)

- **Consists of business and facilities in the UTP, including a commercial gateway, cargo terminal, aviation training center, an MRO center, and Free Trade Zone**

EEC CUSTOMIZED

INCENTIVE PACKAGE

EEC Incentive for Investment Promotion

Taxes and duties

- Corporate Income Tax exemption
- Customs Duties exemption

Non-tax

- Ownership of Land and Condominium
- Long-Term Land Lease (50+49 years)
- EEC Visa
- Work permit
- Others e.g., professional license

Facilitation of Investment and Doing Business in EEC

EEC Regulatory Guillotine

Empowered the issuance of 44 licenses/permits relating to establishment and business operation

EEC One-Stop Service (EEC-OSS)

Facilitating the license/permit application through digital channels

1.

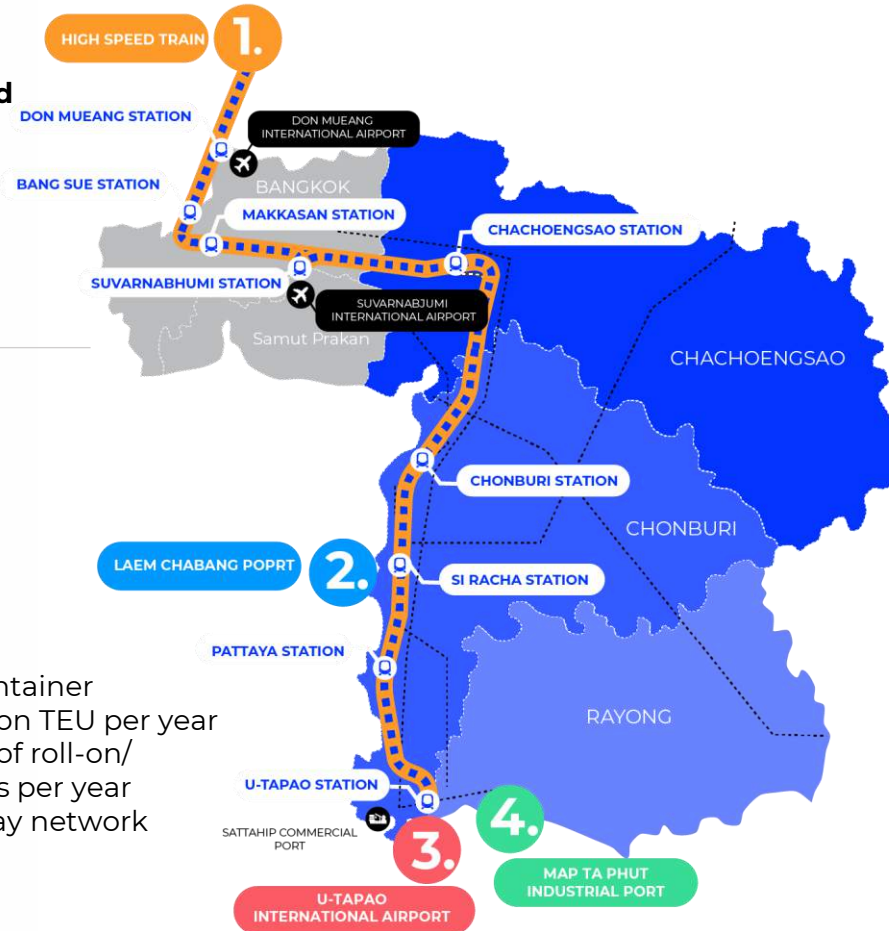
HIGH-SPEED RAIL

Start Operation: 2028

- **Connectivity**
5 Provinces, 3 Airports with 9 stations
- **Distance:** 220 km
- **Train Maximum Speed**
250 km/hour
- **Travel Time**
Within 60 minutes

EEC's

Key Infrastructure Projects



2.

LAEM CHABANG DEEP SEAPORT PHASE 3

Start Operation: 2028

- **Capacity:** Increase container throughput to 18 million TEU per year
- Increase the capacity of roll-on/roll-off to 3 million cars per year
- Connected with railway network
- Green Port

U-TAPAO INTERNATIONAL AIRPORT

Start Operation: 2028

- **Capacity:** 60 million passengers per year
- **Facilities:** Passenger Terminal, Ground Transportation Center, Cargo, Terminal, MRO, Free Trade Zone
- Airport City

3.

4.

MAP TA PHUT INDUSTRIAL PORT PHASE 3

Start Operation: 2027

- **Overall Port's Capacity:** 31 million tons per year (After Development)
- **Liquid Natural Gas Capacity:** 11 million tons per year
- Future Projects
 - Liquid Cargo
 - Warehouse, Power plant & Related Business

4.

Current Progress

EEC's Key Infrastructure Projects



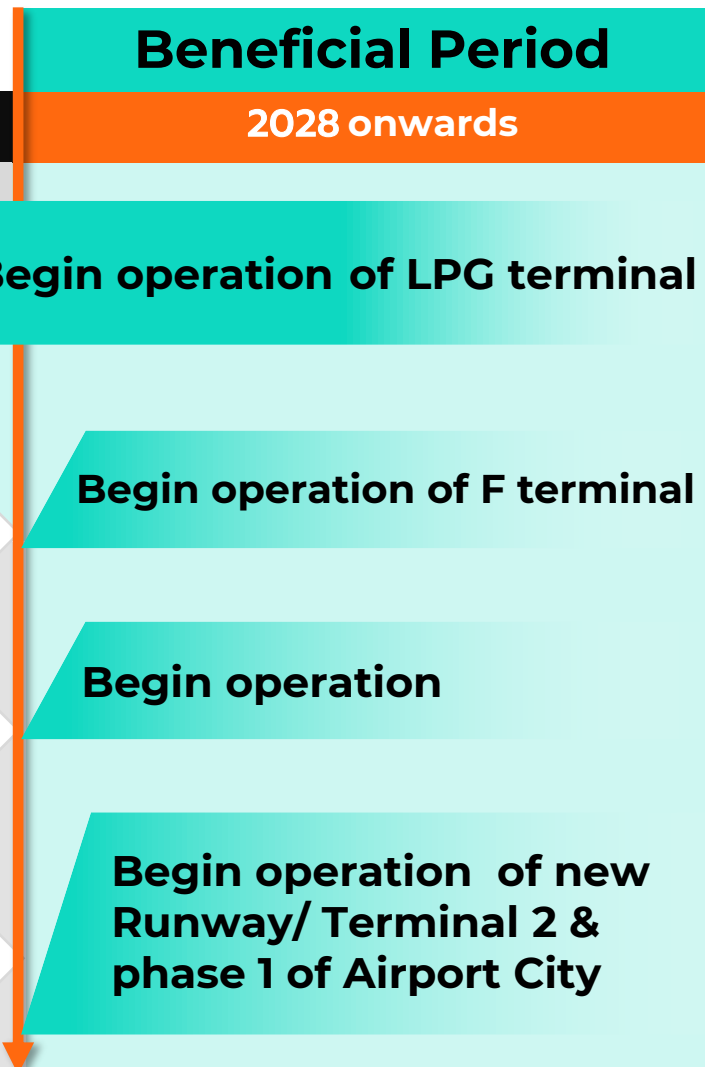
Map Ta Phut Industrial Port Phase 3

Laem Chabang Deep Seaport Phase 3

High-Speed Rail

U-Tapao International Airport

Construction period			
2024	2025	2026	2027
Land reclamation			
Land reclamation			
Construction preparation			
2 nd runway & taxiway preparation			



*As of August 2023
ARL = Airport Rail Link

EEC Model : Demand-Driven approach for human capital & skills development to provide workforces that meet industry demands



EEC Model type **A**

Long term courses – Vocational levels

Work integrated learning [WiL] – a combination of academic and work-related activities
The Collaborative educational services between educational institutions and the industrial sector



EEC Model type **B** 2018-2022, ~16K ppl.

Module Short Courses

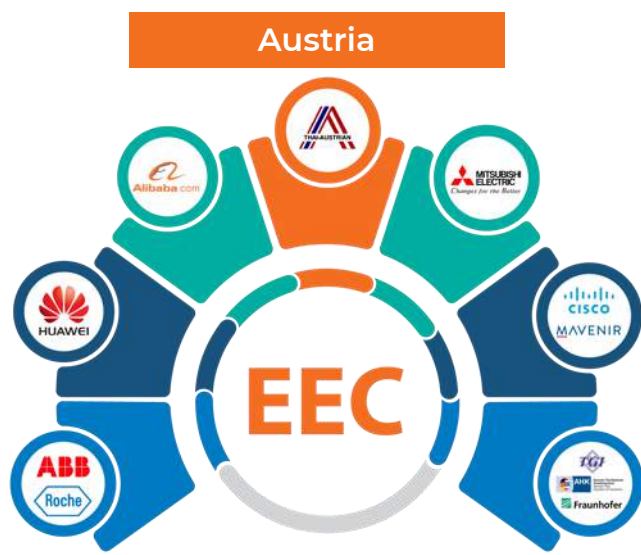
Re Skill – Up Skill to Keep pace with the change of new technology

- 1 Collaboration on curriculum design**
 - Approved by Private Sector
 - Accredited by EEC
- 2 Contribution 50 : 50**
 - 250% tax deduction
 - 50% budget reduction
- 3 Hiring guarantee**
[6 months at minimum]

Credit Bank for undergraduate and graduate levels



Cooperation of EEC Model



E-commerce

Alibaba

China

ICT + 5G

Huawei ASEAN Academy (Thailand)
EEC Branch

China

ABB

Industry 4.0 (5G and Digital) Healthcare



Switzerland

Austria

4.0 Ecosystem

Mitsubishi Electric

Japan

5G + Network

CISCO + MAVENIR

United States

HRD

Germany

5 Clusters Support the 12 Targeted Industries

Medical & Health

MEDICAL AND COMPREHENSIVE HEALTHCARE



INTELLIGENT ELECTRONICS
AUTOMATION AND ROBOTICS
DEFENSE

Digital

Next-Generation Automotive

NEXT-GENERATION AUTOMOTIVE



GREEN AND CIRCULAR
BIOFUEL AND BIOCHEMICAL
ADVANCED AGRICULTURE AND BIOTECHNOLOGY
FOOD FOR THE FUTURE

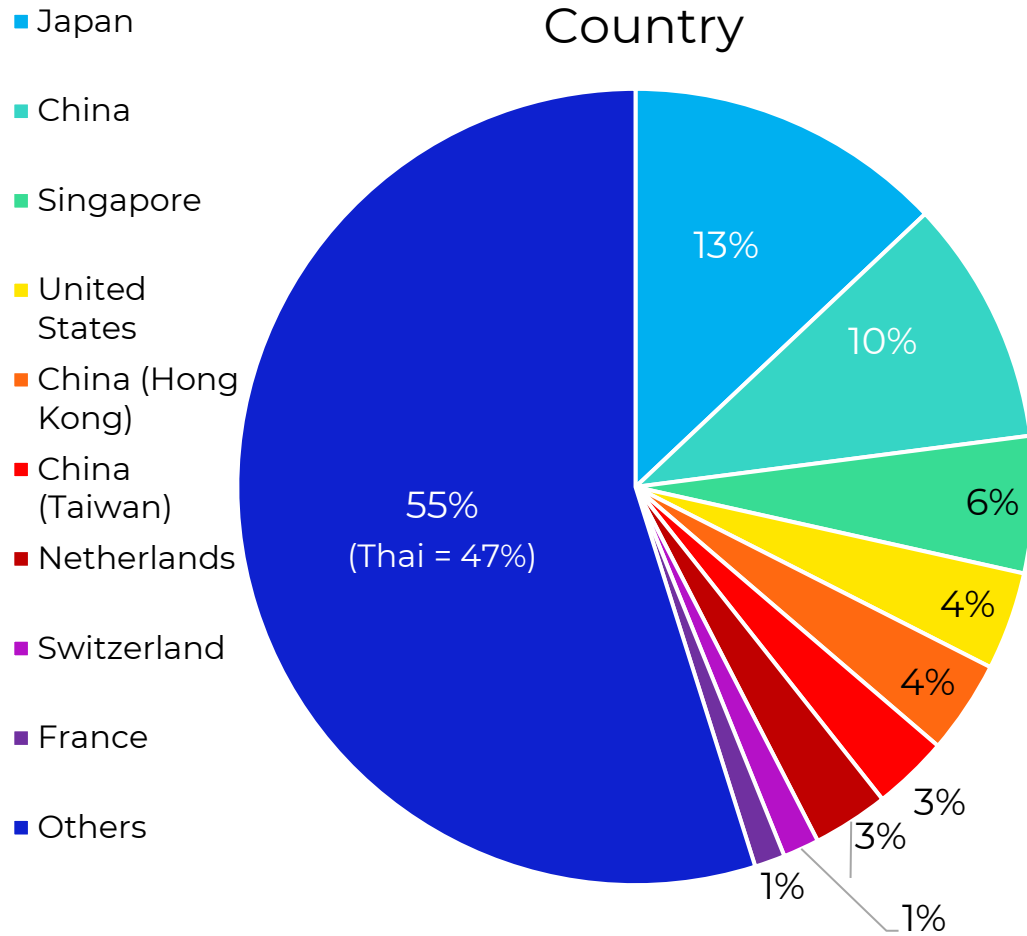
BCG

Services

HIGH-VALUE AND MEDICAL TOURISM
AEROSPACE & LOGISTICS
EDUCATION AND HUMAN RESOURCE DEVELOPMENT

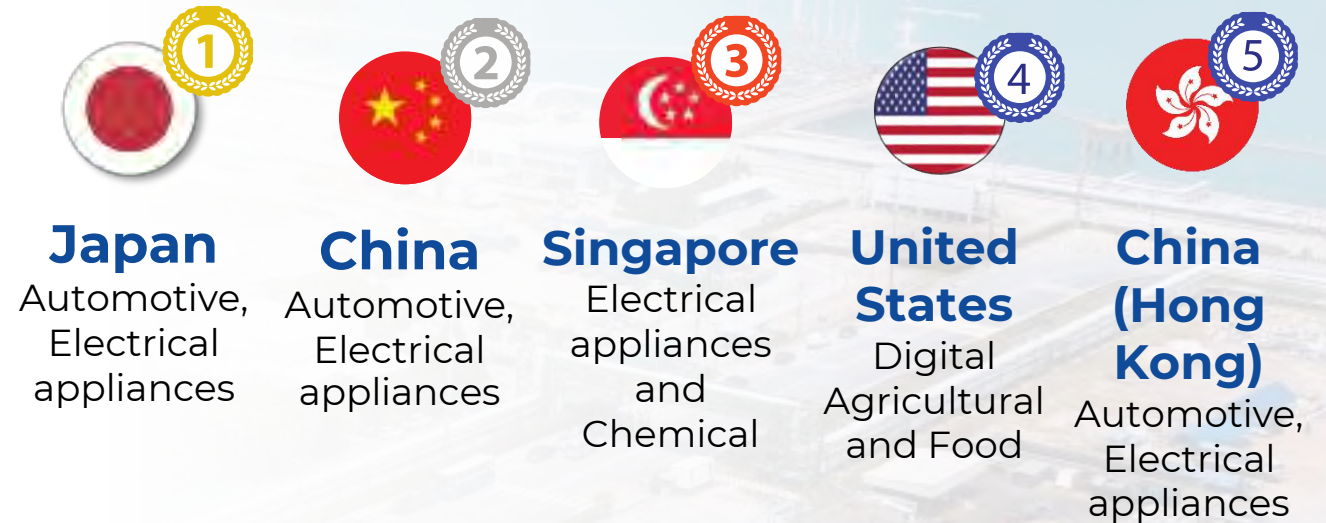


Investment Promotion Certificate Issuance from 2018 – Q2/2023



Total value of **USD 42 Billion**

Top 5 by Nationalities*



Source: BOI as of June 2023

Note: *Nationality data only counts for foreigners (Non-Joint Venture + Joint Venture)

Exchange rate 1) Period 2018 – 2022 = average rate of each year

2) Period Jan-Jun 2023 = THB 34.20 / USD

Since 2018-Q2/2023, Norway's investment in the EEC value of **USD 10.3 Million**

- Norway continues to invest in the EEC, comprising the subsea services to the Oil & Gas industry, manufacturing of furniture and the International Business Center (IBC)



Norway's Key Companies in the **EEC**



Source: BOI as of June 2023

Note: *Nationality data only counts for foreigners (Non-Joint Venture + Joint Venture)

Exchange rate 1) Period 2018 – 2022 = average rate of each year

2) Period Jan-Jun 2023 = THB 34.20 / USD

Strong EV policy to build on EV business strengths



2030
30% of all new cars produced to be ZEV

2035
All new car sales to be ZEV



ZEV Production Target 2030

- **Pick up and Passenger car** : 725,000 units
- **Motorcycle** : 675,000 units
- **Bus and Truck** : 34,000 units

Charging Station Target 2030

- **DC Fast Chargers** : 12,000 stations
- **Battery Swap Station** : 1,450 stations



Extensive Investment Incentives

- **CIT Exemption** – up to 15 years
- **Cash Subsidy** – up to USD 4,350 (34.5 THB:USD)
- **Import Duty Reduction for CBU** – up to 40%
- **Import Duty Exemption for EV's Core Technology Parts**
- **Excise Tax Reduction** – From 8% to 2%

EV Investments in EEC

- From 2018 to June 2023, EV's investment in EEC had a total value of approx. USD 3 Billion (~90% share of the country's EV investment)
- EEC has a comprehensive ecosystem for EV production.
- Major EV car manufacturers, including Japan, China, and Europe, have already invested in the EEC
- EEC will be the largest battery production base in ASEAN
- The first and world-class Automotive and Tyre Testing, Research and Innovation Center (ATTRIC) in ASEAN located in the EEC

1. Electric Vehicle: EV

2. EV Battery

3. EV Charging Infrastructure

4. EV Conversion

5. EV Related parts and business

Remarks: Mercedes-Benz Manufacturing Thailand is located in Samut Prakan province

Bio-Circular-Green (BCG) Economy in EEC



EEC: the targeted area for BCG economy (Execution Plan 2021-2025)



Emission Reduction

- From 2018-June to 2023, BCG's investment in EEC had a total value of approx. USD 4 Billion
- **↓10% GHG emission in industrial sector** (base year 2021)
- **40% of new investment** in EEC will apply the Green & Circular Economy principle

Investment promotion on Renewable Energy and EV

• Energy Efficiency

• Resource and Waste Management



Energy Transition

- Phase 1: Solar 500 MW+
- Phase 2: Green Energy - 30% of total electricity demand



Recycling Business

- Total Waste Management Project in Rayong (Rayong Model)
- Waste-to-energy Plant Project in Pattaya City



Carbon Management

- Carbon Credit Trading Platform, in a collaboration with EEC Office, Federal of Thai Industries and Thailand Greenhouse Gas Organization (Q3 2022)
- Greenhouse Gas Mitigation Information Platform and waste exchange & trading System

Smart Electronics and Digital in EEC



Digital

- Cloud Computing
- Blockchain
- AI / Big Data
- AR / VR / MR
- Cybersecurity
- Semiconductors Chip
- Smart City



Intelligence Electronics

- IoT
- Cloud Computing
- AI / Big Data
- Smart Device
- Cybersecurity
- Blockchain



Robotic and Automation

- Enterprise IoT
- 5G / 6G
- Smart Industry
- Cloud Computing
- Cybersecurity
- AR / VR / MR



Defense

- Military Drone
- Cybersecurity
- AI / Big Data
- AR / VR / MR
- Unmanned systems
- Space Technology
- Satinity Technology

Similarity Megatrend

Cloud Data/
Computing

5G / 6G

Cybersecurity

AI / Big Data

AR / VR / MR

Blockchain

New Eco-systems for Health and Wellbeing



EECg

Genome Sequencing Center in EEC

- Starts operation in 2022 to provide data analytics and interpretation
- The first large-scale genome sequencing centre in Thailand
- Capable of performing **350 human genomes** sequencing per week
- Responsible for **50,000 human genome sequencing of Genomics Thailand**
- Plan to finish the **first 50K genomes within 2025**



EECi

Infrastructures to Support Innovative Herbal Medicine Products

- **Phenomic Greenhouse** - Large-scale facility to study plant physiology & biochemistry
- **Plant Factory and Greenhouse** - Closed system, controlled environment for high-value plant production
- **Biorefinery Pilot Plant with Non-GMP and GMP facility** for scale-up production of functional ingredients, an application testbed for nutraceutical, cosmeceutical, and pharmaceutical industries
- **Tissue culture and Wet lab** - Disease-free plant production and phytochemical analysis



Thailand/EEC's Proposed Areas of Collaboration

- 1) mRNA vaccine and therapeutic production
- 2) Biologic and biosimilar production
- 3) API research and production
- 4) Advanced therapy medicinal products
- 5) Herbal medicines and herbal cosmeceuticals
- 6) Genomic Medicine; Diagnostics and Services
- 7) Advanced Medical Devices

Supporting R&D Network for Ecosystem



Thailand's medical tourism and wellness industry has experienced continuous growth due to its expert quality, favourable climate, rich cultural heritage and exceptional hospitality



World Class Standard

66

Healthcare Facilities.
(US-based Joint Commission International)

- Medical Tourist Visa (1 y)/Elite Visa (20y)
- Wellness Tourism Zone



Famous tourist Attraction

People can come for treatment, travel, and continue to relax at the same time.



Quality of Medical Personnel

The expertise of doctors, nurses, pharmacists, and physiotherapists.



Competitive Pricing

Medical treatment is reasonable in Thailand compared to other countries.



Alternative Medicine Service

Thai traditional and Alternative medicine support comprehensive healthcare system

- Thailand Soft Power
- Good Image Health Care (5th world ranks and 1st in Asia)

Soft Power...new mega-trend...new opportunities

The driving force of the creative and innovative services



The ice cream inspired by Thailand's Temple of Dawn
https://www.youtube.com/watch?v=j_NuarPjJjc

Source: www.bangkokproductions.com, *Thairath* and *CNA*

Opportunities in 5 Clusters

Medical and Health



MEDICAL AND COMPREHENSIVE HEALTHCARE

Potential Sectors

Medical :

- Biopharmaceutical & Biotechnology
- Precision Medicine
- Regenerative Medicine
- Gene Therapy
- Medical Supplies

Potential projects in EEC

- EECg (Genomics Thailand)
– Genome Sequencing Center
- Medical Hub at EECmd

Digital



DIGITAL



INTELLIGENT ELECTRONICS



AUTOMATION AND ROBOTICS



DEFENSE

- Data Center & Cloud computing
- Smart Factory / Industry 4.0 (using 5G)
- Cybersecurity
- IoT device & Semiconductor
- Medical Robotics
- Smart City development

- Satellite manufacturing & downstream data utilisation at EECd
- Automation Park (Burapha Univ.)
- Ban Chang Smart City
- EEC Business Center & Livable Smart City
Connected and Autonomous Vehicle [CAV] Proving Ground at EECi

Next-gen Automotive



NEXT-GENERATION AUTOMOTIVE

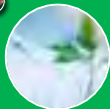
- EV & part manufacturing
- Battery development
- EV Charging station
- Hybrid & Electric Aircraft

- 30@30 policy for EV utilisation
- Hydrogen limousine in Pattaya (Pilot project)

BCG



ADVANCED AGRICULTURE AND BIOTECHNOLOGY



FOOD FOR THE FUTURE



BIOFUEL AND BIOCHEMICAL



- Advanced Agriculture and Biotechnology
- Functional Food & Food additive
- Biofuel and Biochemical
- Renewable Energy & Smart grid

- Biorefinery at EECi
- Greenhouse & Plant Factory in EECi
- Biofuel/Biochemical/Green energy
- Carbon credit trading platform development

Services



AEROSPACE & LOGISTICS



HIGH-VALUE AND MEDICAL TOURISM



EDUCATION AND HUMAN RESOURCE DEVELOPMENT

- Multimodal Transportation
- MRO business
- E-Logistics
- Smart Warehouse
- Film production hub
- Tourism
- Education
- Others

- U-Tapao International Airport (EECa)
- Laem Chabang deep seaport phase 3
- Map Ta Phut industrial port phase 3
- High-Speed Rail (EECh)



YOUR TRUSTED PARTNER

AT SUSTAINABLE DESTINATION

CONTACT **EEC**

We Make EEC Easy

EEC's dedicated team will guide you towards successful development of investment projects. Our team can advise, accompany, and assist you throughout the journey.

The Eastern Economic Corridor Office of Thailand (EECO) is the public agency established to promote investment, uplift innovation, and advanced technology in Thailand for the future generation. We are your facilitator to add the value across the entire project and coordinate closely and proactively with the entire supply chain to ensure the success of your investment

How to get in touch

We welcome any inquiries. Please feel free to contact us at

 **Eastern Economic Corridor Office**
25th Floor NT Tower, 72 Soi Wat Maungkhae, Charoenkrung Road, Bangrak,
Bangkok 10500 Thailand

 info@eeco.or.th or saraban@eeco.or.th

 [EEC WE CAN](#)



EEC Website



EEC Fact Sheet

