

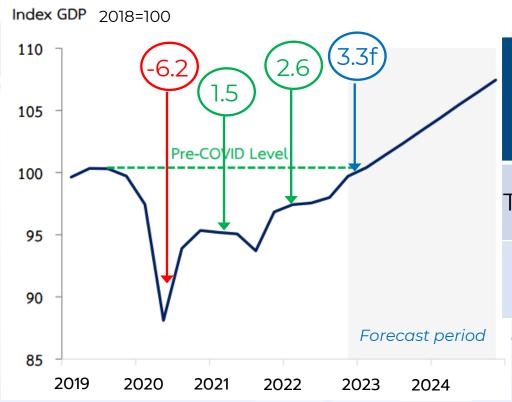
### Thailand and the connectivity among multi-regions



### Thailand's GDP growth would be at the pre-Covid level by mid-2023

The Thai economy is expected to continue expanding in 2023 driven by the recovery in tourism and domestic demand

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



_	GDP %	2020	2021	2022	2023f*
	Thailand	-6.2	1.5	2.6	3.3*
	EEC	-7.1	3.3	3.9	4.5*

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

EEC DATES CONDOC COMBON

**As of May 2023** 

NESDC 2.7 – 3.7

3.4

3.6

3.6

IMF

BOT

MOF

### Thailand moves up competitiveness ranking in 2023



 Thailand's competitiveness ranking for 2023 has improved by three positions, placing it at **30th** of the 64 economies worldwide and **3rd** in ASEAN

 Thailand has improved across various aspects, including economic performance, government efficiency, business efficiency, and infrastructure

### **EEC** at a glance

#### THE EASTERN ECONOMIC CORRIDOR (EEC)

lies at the heart of Thailand's 4.0 development strategy, aimed at restructuring and revitalising 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 exceptional 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 Provinces



Area: 13 Million Hectares (8.3 Million Rai)

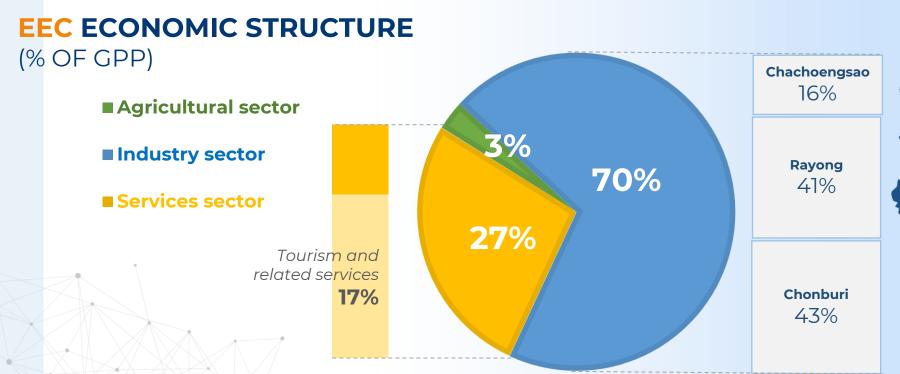


### The EEC collectively had a 2022 GPP of USD 74.2 bn (on a nominal basis), or about 15% of Thailand's GDP











## 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
- Ease of Business Entry



### 2. Favorable Ecosystem

- EEC Demand-driven education & training
- EEC Fund for the local community



### 3. Supporting Infrastructure



EEC PPP Fast Track



**Exceptional Location Exclusive Opportunities Comprehensive Development** 

### **EEC** Development Phase 1 & 2

## Phase 1 EEC Investment target (2018-2022)

# THB 1.7 Trillion THB (~50 billion USD) Achieved

- 1 4 PPP Infrastructure projects with a total investment value of approx. USD 19 billion
  - High-Speed Rail Linking 3 Airports
  - U-Tapao International Airport
  - Laem Chabang Port phase 3
  - Map Ta Phut Industrial port phase 3
- 2 Approved value for Investment promotion by BOI approximately USD 36.7 billion
- 3 EEC Integrated budget USD 2.6 billion

## Phase 2 EEC Investment target (2023-2027)

# THB 2.2 Trillion THB (~65 billion USD) Ongoing

Focusing investment promotion on

1) 5 Clusters of Business Opportunities

**Present:** Promotional zones for specific industries

EECa, EECi, EECd, EECtp, EECg, EECmd, EECh, with customized incentives

Future: EEC Business Center & Livable Smart City



### **EEC Promotional Zones**



#### **Promoted by BOI Investment Promotion Act**

### **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

## PROMOTIONAL ZONES

#### FOR SPECIFIC INDUSTRIES

**Promoted by EEC Act** 

### EECh LOGISTICS

#### **High-Speed Rail Ribbon Sprawl**

Location: Along the high-speed rail track that crosses Don Mueang,

Suvarnabhumi, and U-Tapao Airport

Distance: 220 Kilometers

EECh consists of a High-Speed Railway and the Transit-Oriented development area (TOD located at the Makkasan and Si Racha Station, measuring 22.4 Hectares (140 Rai)

and 4 Hectares (25 Rai), respectively.

#### **EECg**

**HEALTH & WELLBEING** 

#### **Genomics Thailand**

Location: Burapha University, Chonburi

Area: 0.6 Hectares (3.69 Rai)

EECg is the genomics testing hub in EEC built upon a collaborative research network, empowered by the Next-Generation Sequencing Technology.

#### **EECd**

**Digital Park** 

DIGITAL

Location : Si Racha District, Chonburi

Area: 113.28 Hectares (708 Rai)

EECd is the future destination for digital global players and digital biz innovation to explore, develop and acquire original digital technology for thriving digital business. It consist of the world-class data center, digital innovation testbed and IoT institutes which are fully equipped with high-tech facilities.



**EECi** 

**HEALTH & WELLBEING** 

**DECARBONIZATION** 

#### Innovation

Location: Wangchan Valley, Rayong

Area: 480 Hectares (3,000 Rai)

EECi is a novel ecosystem 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
The development of the EEC Tech Park, Ban Chang will serve as
the centerpiece of the EEC's audacious effort to be the ultimate
frontier for centers of advance technology innovation.

#### **EECmd**

**Medical Hub** 

**HEALTH & WELLBEING** 

Location: Bang Lamung District, Chonburi

Area: 90.56 Hectares (566 Rai)

EECmd is aspired to become Thailand's first mental hub, where the area would offer complete health care and medical services. EECmd aims to elevate Thailand's health services and equip The country for the expansion of its aging population.

#### **EECa**

**Eastern Airport City** 

LOGISTICS

Aerotropolis

Location: U-Tapao International Airport, Rayong Area: 1,040 Hectares (6,500 Rai) EECa consists of business and facilities in the U-Tapao International Airport, including a commercial gateway, cargo terminal, an aviation training center, an MRO center, and Free

Trade Zone that will enhance business operations and provide a world-class experience for everyone.

### **EEC CUSTOMISED INCENTIVE PACKAGE**

## **EEC** Incentive for Investment Promotion

Promotional Zones for "Specific Industries" Area

- 1 Taxes and duties
  - Tax exemption CIT
- 2 Non-tax
  - Ownership of land and Condominium
  - Long-term Land Lease
  - Long-term Visa (LTR) 50+49 years
  - Work permit
  - Others e.g., professional license

## Facilitation of Investment and Doing Business in EEC



Facilitating permit application process through Digital channels for 44 permits

(EEC One Stop Service: EEC-OSS)



### **EEC Regulatory Guillotine**

Designed in collaboration with investors aiming to create optimal rules and regulations, and procedures to best facilitate investment in targeted industries

### **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

Cooperation for

vocational education

The Collaborative educational services between educational institutions and the industrial sector





#### **Module Short Courses**

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

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





Credit Bank for undergraduate and graduate levels

Education Institution

EEC HDC Coordinate/Course Accredited





### **EEC**'s Key Infrastructure Projects

### LAEM CHABANG DEEP SEAPORT PHASE 3

Start Operation: 2028

- Capacity: Increase container throughput to 18 million TEU/ year
- Increase the capacity of roll-on / roll-off to 3 million cars/year
- Increase the ratio of goods shipment via trains to 30%
- Automatic Container Management System

#### U-TAPAO INTERNATIONAL AIRPORT

Start Operation: 2028

- Capacity: 60 million passengers / year
- Facilities: Passenger Terminal/ Ground Transportation Center/ Cargo Terminal/ MRO/ Free Trade Zone/ Training Center for Aeronautical Personnel



#### **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

### MAP TA PHUT INDUSTRIAL PORT PHASE 3

Start Operation: 2027

- Overall Port's Capacity: 31 million tons / year (After Development)
- Liquid Natural Gas port: 11 million tons / year
- Future Projects
  - Liquid Material Port: 4 million tons / year
  - Warehouse, Power plant & Related Business









### **Current Progress of EEC's Key Infrastructure Projects**



### The High-Speed Rail Linking 3 Airports



The High-Speed Rail Linking 3 Airports

- Connectivity: 5 Provinces,3 Airports with 9 stations
- Distance 220 km
- Train Max. Speed: 250 km/hr
- Travel Time: Within 60 min.
- Operation Year: **2028**

Total Investment
THB 281,941 Million
(USD ~ 7.7 Billion)



\*Estimated total infrastructure investment value throughout the project period (Nominal Value) as of January 2023 Note: Exchange rate THB 36.25 / USD

### **U-Tapao** International Airport



- Capacity: 60 million
   Passengers per year
- Facilities: Passenger Terminal/ Ground Transportation Center/ Cargo Terminal/MRO/ Free Trade Zone/ Training Center for Aeronautical Personnel
- Operation Year: **2028**

Total Investment
THB 204,051 Million
(USD ~ 5.6 Billion)



### **Laem Chabang Port Phase 3**



**Laem Chabang Port Phase 3** 

- Increase container though put to 18 million TEU / Year
- Increase the capacity of roll-on /roll-off to 3 million cars/ year
- Increase the ratio of goods shipment via trains to 30%
- Automatic Container
   Management System
- Operation Year: **2028**

Total Investment
THB 110,115 Million
(USD ~ 3.0 Billion)



### **Map Tu Phut Industrial Port Phase 3**











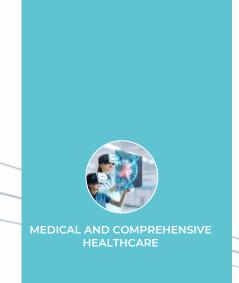
**Map Tu Phut Industrial Port Phase 3** 

- Overall Port's Capacity:
   31 million tons / year
   (After Development)
- Liquid Natural Gas Port:
   11 million tons / year
- Future Projects
  - Liquid Material Port 4 million tons / Year
  - Warehouse, Power plant & Related Business
- Operation Year: **2027**

Total Investment
THB 64,905 Million
(USD ~ 1.8 Billion)



## **5 Clusters Support the 12 Targeted Industries**





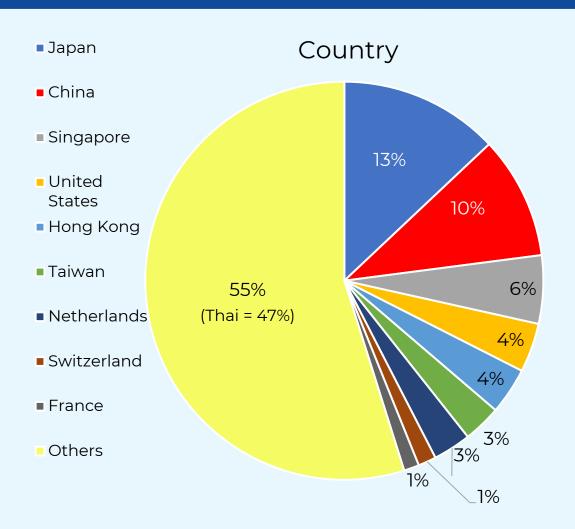








### **Investment Promotion Certificate Issuance from 2018 - Present** (Q1/2023)



### Total value of USD 38 Billion

### **Top 5 by Nationalities\***











#### Japan Automotive, Electrical

appliances

China Automotive, Electrical appliances

Singapore Electrical appliances and Chemical

United **States** Digital Agricultural Automotive, and Food

China (Hong Kong) Electrical appliances

Note: \*Nationality data only counts for foreigners (Non-Joint Venture + Joint Venture) Exchange rate THB 34.04 /USD (Avr. April 2023)

Source: BOI as of 31 March 2023





## BCG **Economy** in EEC

Goal of Carbon **Neutrality** by 2050

#### **G**: Green Economy

determines to keep the economy, society and the environment, in balance, leading to sustainable development

Create economic, social and environmental sustainability

### **B**: Bioeconomy

involves the production of renewable biological resources and the conversion of these resources into value added products

- Increase productivity
- Transform from agri-based into bio-based production

Value creation

Wise utilisation of resources

#### C: Circular Economy aims at reusing and recycling resources

- Reduce the use of limited resources
- Recycle resources
- Reduce waste

Reduce the use of natural resources Reduce environment impact

#### Thailand's 20-Year National **Strategy**

Sustainable **Development Goals** 

### **Exclusive Opportunities under BCG Economy**

#### Food & **Agriculture**



- Breed/seed improvement
- Fertigation system
- Plant factory
- Functional food
- Alternative protein: plantbased, insect-based & cellbased
- Food loss management

#### Health & Medicine

- Biosimilars
- Vaccine
- Gene therapy
- Advanced therapy
- Antibody drug
- Cosmeceuticals
- Medical equipment
- Herbal drugs and products
- Clinical research



#### **Material & Energy**

- Renewable energy
- Biorefinery
- Biofuel
- Biomass to power
- Bioplastics
- Biochemical
- Bioingredient
- Green reagent
- Reuse plastics



**Waste Management** 

Waste sorting at source

Recycle of plastic waste

to food-grade plastic

& Recycling

Reduce waste

Waste to energy

Green solvent

### **Circular Economy: BCG**

BCG Projects in EEC 2018 - Mar 2023 407 Projects THB 130 Billion (USD 4 Billion)



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



- **\$10% GHG emission in industrial sector** (base year 2021)
- 40% of new investment in EEC will apply 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 Pattava 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



### 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

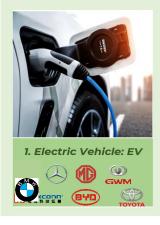


#### **EV Investments in EEC**

- EEC has comprehensive ecosystem for EV production.
- Major EV car manufacturers including Japan, China, Europe has 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

#### **Extensive Investment Incentives**

- CIT Exemption up to 13 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%











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



### **Thailand Health System**



### **Biggest Medical Travel Destination by Value** <sup>1</sup>

Thailand Medical Hub is worth USD 17 Billon



World's most JCI-Accredited hospitals (66 Hospitals) <sup>2</sup>



is the ranking of Thailand on the 2021 Global Health Security Index <sup>3</sup>



is the ranking of Thailand on the World's best Healthcare by CEO world 4

- Thailand's domestic health expenditure has risen from USD 11.56 billion in 2010 to USD 21.79 billion in 2020
- 30% of healthcare spending is pharmaceutical products and mostly imported
- Total Pharma sales in 2021 worth USD 5.62 billion



<sup>&</sup>lt;sup>1</sup> Malaysia Medical Tourism Authority

<sup>&</sup>lt;sup>2</sup> MeDIU, Krungsri Research, 2021

<sup>3</sup> https://www.thaipbsworld.com/thailand-ranked-5th-in-2021-global-health-security-index/

https://ceoworld.biz/2021/04/27/revealed-countries-with-the-best-health-care-systems-2021/

### **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



#### **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**

- mRNA vaccine and therapeutic production
- Biologic and biosimilar production
- API research and production
- Advanced therapy medicinal products
- Herbal medicines and herbal cosmeceuticals
- Genomic Medicine; Diagnostics and Services
- **Advanced Medical Devices**

#### **Supporting R&D Network for Ecosystem**









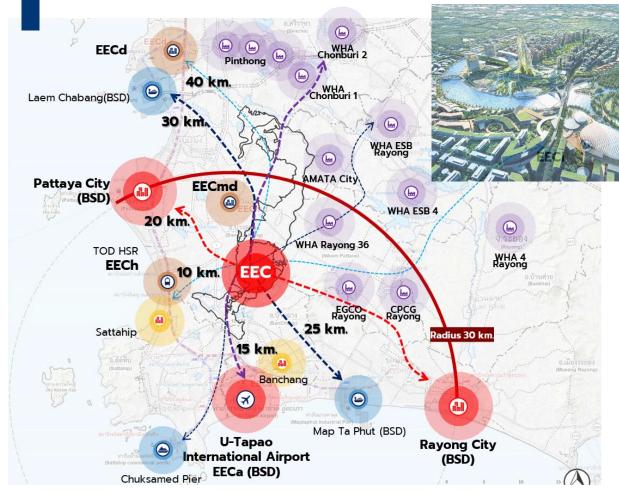








### **EEC Business Center & Livable Smart City**



Vision :
"Becoming a Center of Regional Businesses & Financial
Services"

Prime area for future living where nature, people, and technology come together.

Moving toward BCG economy. A place of innovation
and international life quality. A Top 10 Livable Smart City in the World

**Location :** Bang Lamung District, Chonburi Province, Thailand

**Area:**  $\approx 15,000 \text{ rai } (24 \text{ km}^2),$ 

 $\approx$  5,000 rai (8 km<sup>2</sup>) for the initial phase

**Distance :** ≈ 15 km. from U-Tapao airport **Key Locations** ≈ 10 km. from Pattaya - Jomtien)

≈ 160 km. from Bangkok

**Development:** 2022-2032 (1 year for the project's preparation &

**Duration** 10 years for development)

**Population:** 350,000 people **Job Creation:** 200,000 positions

**Development Cost:** ≈ 1.34 trillion THB (≈ 40 billion USD)

**7 Smart Concept :** 1) Smart Economy 5) Smart Energy

2) Smart Living 6) Smart Environment

3) Smart People 7) Smart Mobility

4) Smart Governance

**Business Clusters:** 1) Regional HQs & Gov. Complex

2) Financial Center

3) Precision Medicine Center

4) Education-R&D Center

5) Future Businesses Center, e.g., Clean Energy,

Digitalization, Logistics, Sport Sciences

There will also be High-Quality Residences &

Smart Affordable Housing

**Land Use Ratio :** Commercial & Residential Areas ≈ 70%

Green Area ≈ 30%



### CONTACT EEC

We Make Entry Easier

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

### Who we are

The Eastern Economic Corridor Office of Thailand (EECO) is a vital public agency that aims to encourage investment, uplift in novation, and advanced technology in Thailand for the future generation. We are the business facilitator that adds value across the entire project lifecycle and coordinates closely and proactively with other public authorities and private sectors to ensure the success of the projects.

### How to get in touch

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

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**EEC Website** 



EEC Fact Sheet