



EEC

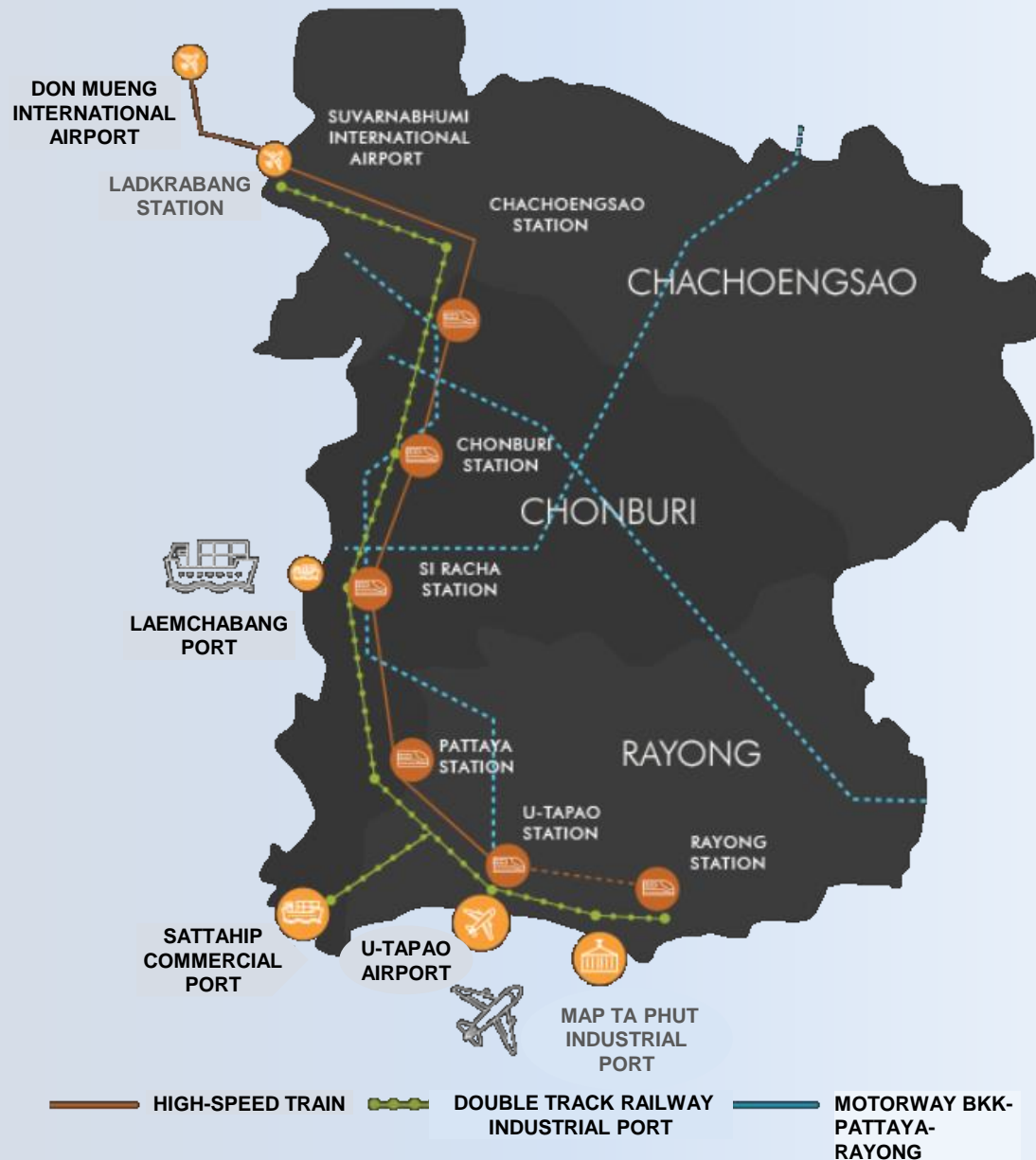
เขตพัฒนาพิเศษภาคตะวันออก  
เชื่อมโลก ให้อยู่เล่น

# EEC Updates and Investment Opportunities

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# Eastern Economic Corridor (EEC)



Total Area: 13,810 sq.km.  
Population: 3,261,751 pp.

## Chonburi

Area 4,363 km<sup>2</sup>  
Population 1,567,000

## Rayong

Area 5,351 km<sup>2</sup>  
Population 908,778

## Chachoengsao

Area 3,552 km<sup>2</sup>  
Population 785,973

A map of the Eastern Economic Corridor (EEC) in Thailand, showing infrastructure projects and seamless logistics. The map highlights the provinces of Chachoengsao, Chonburi, and Rayong. Key infrastructure points include: Don Mueang International Airport, Suvarnabhumi International Airport, Chonburi Station, Chachoengsao Station, Pattaya Station, U-Tapao Station, Rayong Station, Sattahip Deepwater Port, U-Tapao Airport, and Map Ta Phut Port. The map also shows the borders of Myanmar, Laos, Vietnam, and Cambodia. The text "EEC's Infrastructure Projects and Seamless Logistics" is overlaid on the map.

# EEC's Infrastructure Projects and Seamless Logistics

# Eastern Economic Corridor (EEC)

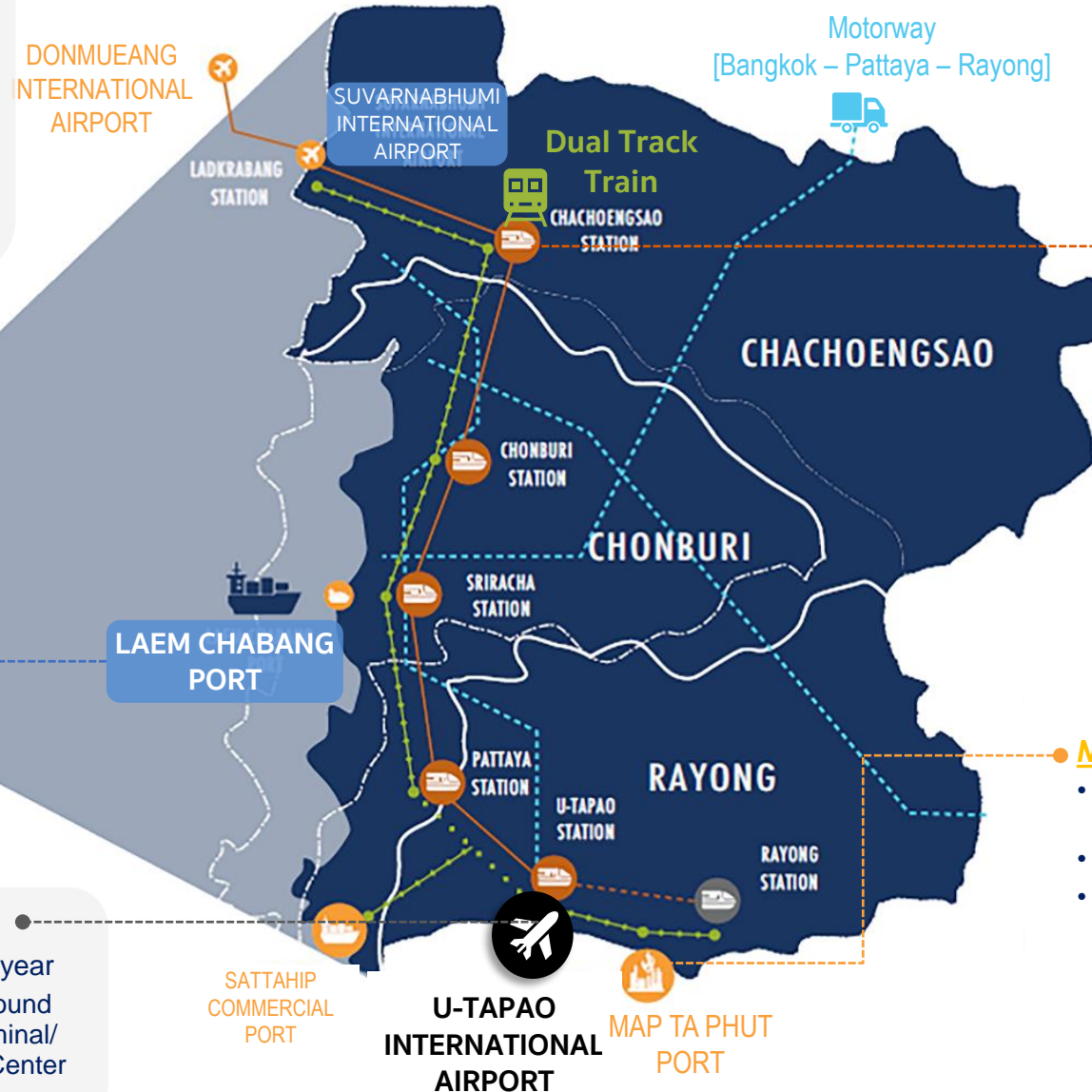
## Laem Chabang Port Phase 3

- Capacity:
  1. Increase container throughput to 18 million TEU/ year
  2. Increase the capacity of land transportation to 3 million cars/ year
  3. Increase the ratio of goods shipment via trains to 30%
  4. Automatic Container Management System



## U-Tapao International Airport

- 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

- 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

- 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



# EEC's Infrastructure Projects



## High Speed Rail



**Connect Bangkok with EEC Area  
linking 3 Airports with < 60 minutes travel time**

- **Start Operation: 2025**
- Connectivity: 5 Provinces, 3 Bangkok Airports with 9 stations
- Distance: 220 km
- Train Maximum Speed: 250 km per hour
- Travel Time: Within 60 minutes
- Winner: Eastern High-Speed Rail Linking Three Airports Co.,Ltd.
- Status: Expropriation process



## U-Tapao International Airport



**3rd international airport of Bangkok**

- **Start Operation: 2025**
- Capacity: 60 million passengers per year
- Facilities: - Passenger Terminal
  - Ground Transportation Center
  - Cargo Terminal
  - Maintenance, Repair and Overhaul Center
  - Free Trade Zone
  - Training Center for Aeronautical Personnel
- Winner: U-Tapao International Aviation Co.,Ltd.
- Status: Designing process

# EEC's Infrastructure Projects



## Map Ta Phut Industrial Port Phase 3

**Gulf MTP**  
LNG Terminal

**Expand the capacity of the shipment hub in Southeast Asia while maintaining the energy security for Thailand**

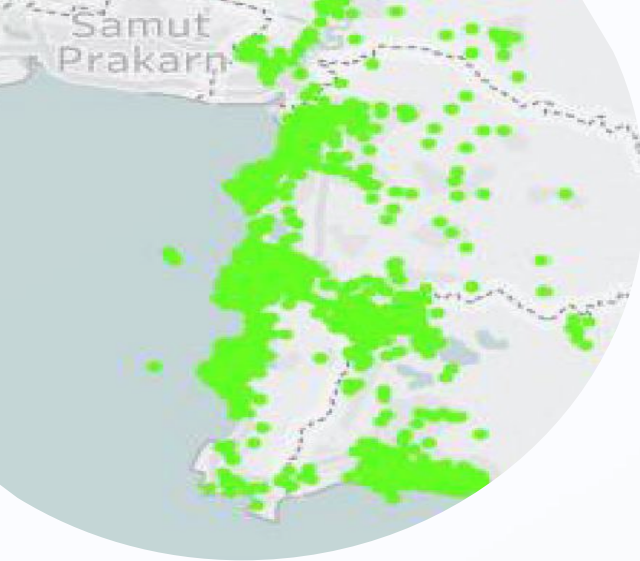
- **Start Operation: 2026**
- Location: Rayong Province
- Overall Port's Capacity: 31 million tons/year (After Development)
- Liquid Natural Gas port: 11 million tons/ year
- Future Projects
  - Liquid Material Port: 4 million tons/ year
  - Warehouse & Power Plant
- Winner: Gulf MTP LNG Terminal Co.,Ltd.
- Status: Designing process



## Laem Chabang Port Phase 3

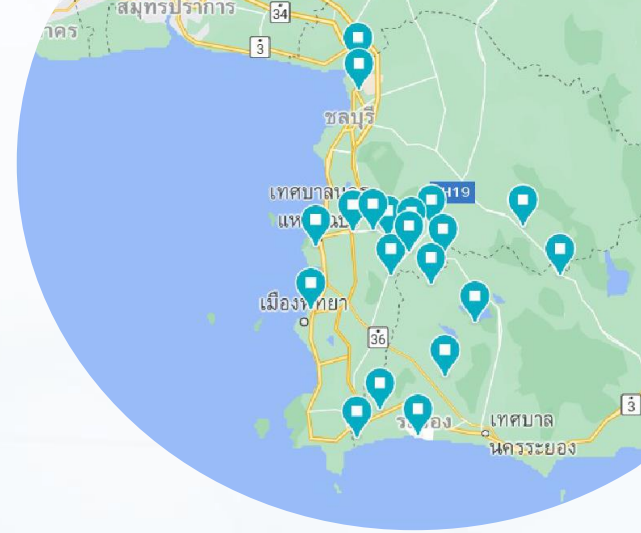
**Equip the Largest Sea Port in Thailand with automated system as the foundation for the Regional Logistics Center**

- **Start Operation: 2025**
- Location: Chonburi Province
- Capacity
  - Increase container throughput to 18 million TEU/ year
  - Increase the capacity of land transportation to 3 million cars/ year
  - Increase the ratio of goods shipment via trains to 30%
  - Automatic Container Management System
- Status: Approved, contract to be signed in Q2 2021



# 5G Infrastructure in EEC

5G in Thailand was launched in February 2020.  
and has the potential to account for 10%  
of Thailand's GDP by 2035



Thailand is leading  
ASEAN in 5G roll out  
with the plan to cover  
50% of EEC Promoted  
Area within  
March 2021.



## EEC 5G Execution plan

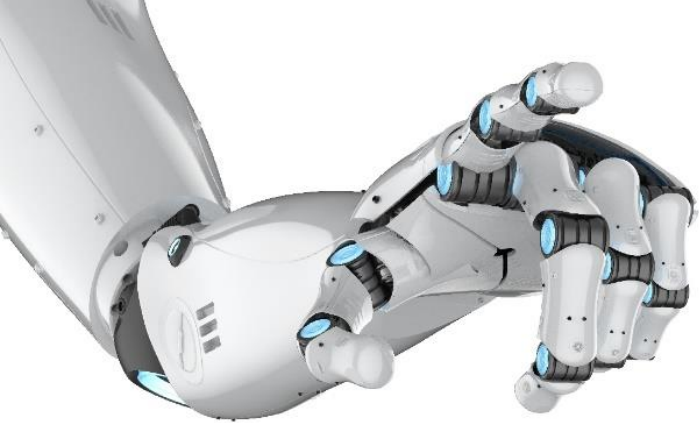
1. Develop 5G Infrastructure
  - 5G Signal
  - Data Center-Cloud-Common data Lake
2. Drive 5G Utilization
  - 5G for industry applications
  - 5G for cities and communities
  - 5G for new/ digital businesses
3. Develop 5G & Digital skills



The background of the slide features a map of the Eastern Economic Corridor (EEC) in Thailand. The map highlights the provinces of Chachoengsao, Chonburi, and Rayong. It shows major transportation infrastructure including highways, railways, and ports. Key locations marked on the map include Bangkok International Airport, Chonburi International Airport, Chachoengsao Station, Chonburi Station, Triracha Station, Pattaya Station, U-Tapao Station, Rayong Station, and various ports like Sakon Nakhon Port, U-Tapao Port, and Rayong Port. The map also shows neighboring countries: Myanmar, Laos, Vietnam, and Cambodia.

# EEC's Investment Opportunities





# 12 TARGETED INDUSTRIES

PROMOTING ADVANCED TECHNOLOGY AND INNOVATION



ADVANCED  
AGRICULTURE AND  
BIOTECHNOLOGY



FOOD FOR  
THE FUTURE



MEDICAL AND  
COMPREHENSIVE  
HEALTHCARE



BIOFUEL AND  
BIOCHEMICAL

HEALTH



INTELLIGENT  
ELECTRONICS



AUTOMATION  
AND ROBOTICS

DIGITAL



NEXT-GENERATION  
AUTOMOTIVE



DIGITAL



AVIATION  
AND LOGISTICS

LOGISTICS



HIGH-VALUE AND  
MEDICAL TOURISM



DEFENSE



EDUCATION AND  
HUMAN RESOURCE  
DEVELOPMENT

# EEC FOCUS AREAS

3 + 1 emerging clusters amidst global pandemic



ADVANCED  
AGRICULTURE AND  
BIOTECHNOLOGY



FOOD FOR  
THE FUTURE



MEDICAL AND  
COMPREHENSIVE  
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LOGISTICS

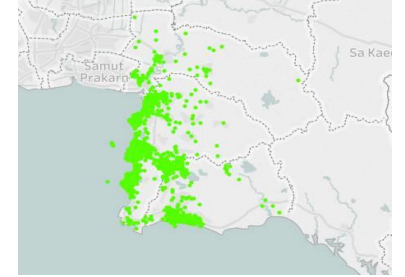
CIRCULAR & GREEN ECONOMY

EDUCATION AND HUMAN RESOURCE DEVELOPMENT



# 5G networks is ready for deployment in EEC

- Currently 5G signal covers all of EEC promoted zones
- 5G as a key enabler for Industry 4.0 and Smart Cities development in EEC



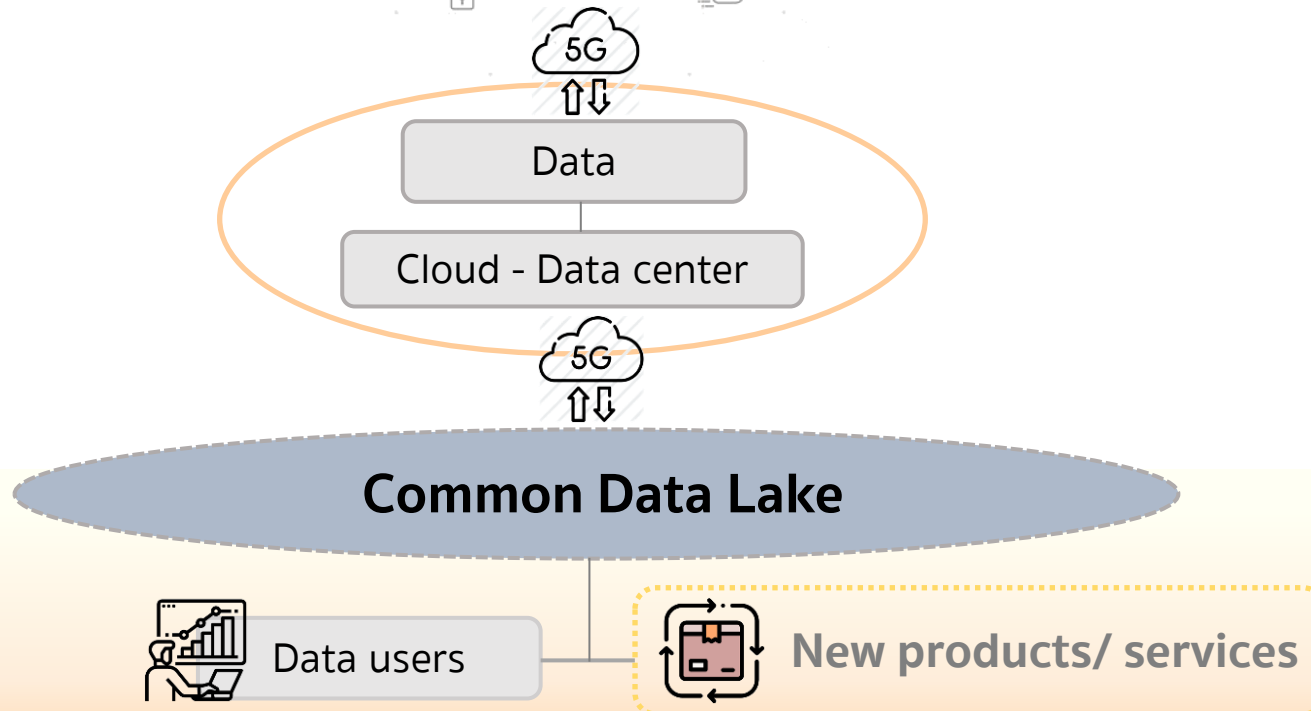
## Industry 4.0

5G for Manufacturing and Industrial Automation



## 5G driven Smart Areas in EEC

Create more 5G users to benefit community



# 5G driven Smart Areas in EEC



## 5G Smart Port

Safety and operational efficiency improvement

Laem Chabang Port

Laem Chabang Port

Pattaya

U-Tapao Airport

Aerotropolis infrastructure development

CHONBURI

CHACHOENGSAO

RAYONG

Ban Chang

Community development

Map Ta Phut Complex

Industrial efficiency improvement

2021 Target

80

Factories



Smart Factory

Improving business competitiveness

EEC



# 5G and Industries 4.0 Execution Plan in EEC

## Agriculture

### Precision Agriculture

- Farm & Climate Monitoring
- Farm to Fork Traceability
- Agricultural Drones
- Aerial Imagery Analytics
- Pest & Disease Prescriptive Analytics

### Augmented Farming

### Simulated Agriculture Training

## Manufacturing

### Smart Factory

- Remote Monitoring and Operations
- Full-loop Industrial Automation
- Safety Analytics & Predictive Maintenance

### Tele-workers

- Virtual Production Line
- Tele/ Augmented Field Service

### Simulated Training

### Virtual Prototyping

## Transportations & Logistics

### Intelligent Supply Chain

- Supply Chain Visibility
- Supply Chain Traceability
- Warehouse Automation
- Demand Forecasting & Optimization
- Safety Analytics

### Autonomous & Remotely-Operated Vehicles

## Healthcare

### Telemedicine

- Remote Surgery
- Connected Medical Devices
- Remote Patient Monitoring
- Intelligent Diagnosis

### Precision Medicine

- Health Wearables
- Bio-Informatics / Genomics
- Personalized Health Plan
- Personalized Treatment & Medication

## Consumer & Tourism

### Hyper-Personalization

- Smart Home and IoT Appliances
- Personalized Wearables
- Interactive Tourism through Sensor / IoT
- Advanced Personalization e.g. geo-intelligence

### Augmented Experience

- Augmented Learning & Working
- Virtual Tour / Event

## Execution Plan in EEC in 2021

### Facilitate supply and demand with 5G initiatives

- Sharing of infrastructure
- Tax incentive schemes
- Matching funds for SME's



### Create 5G usecase and pilot projects

- Pilot project >> 80 Factories in 2021 (Year 1 Milestone)
- Leverage partnership with industry and technical organizations

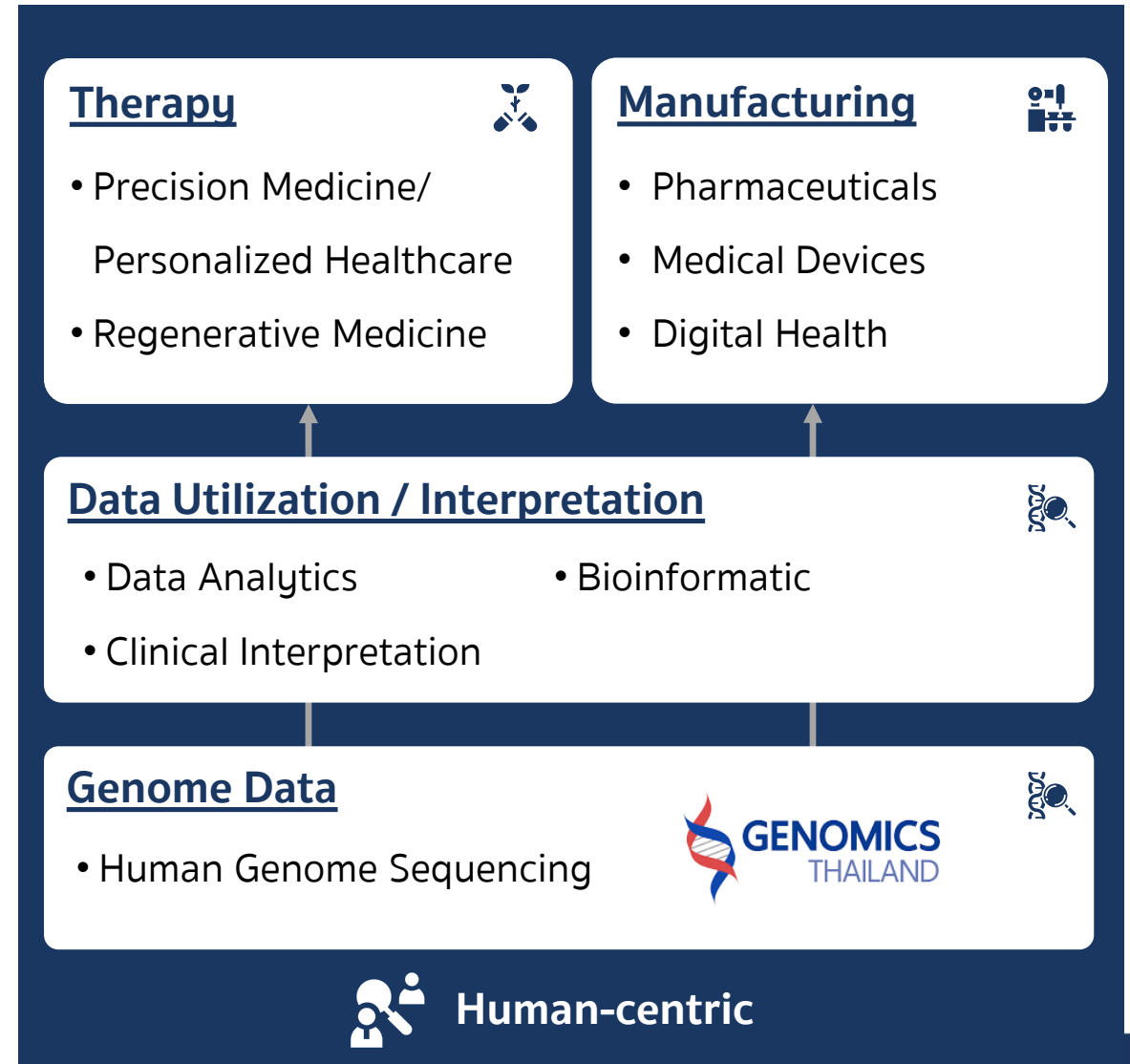
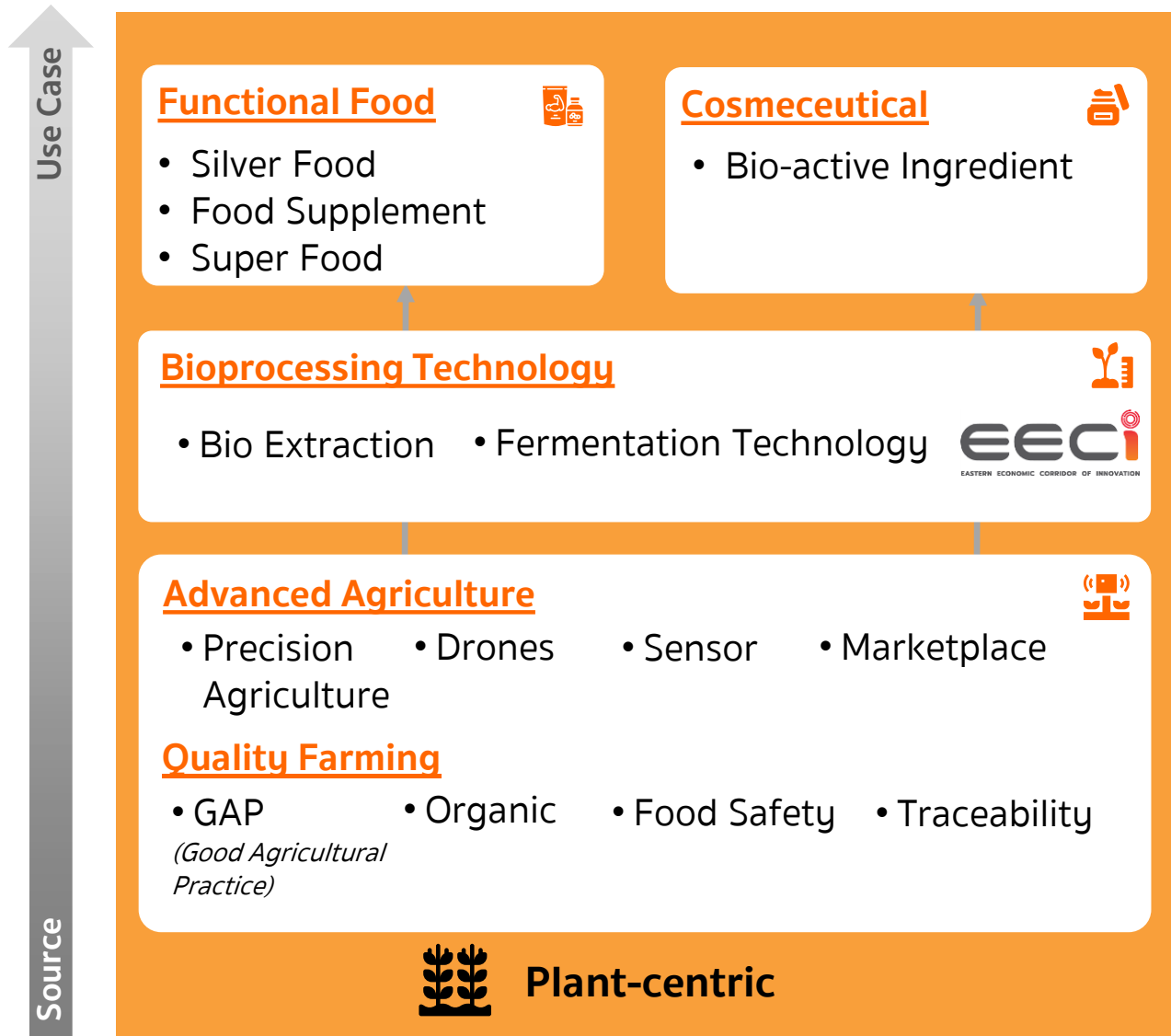


### Training and HRD

- Using EEC Model Type B
- Approved 85 short courses in Industry 4.0 and another 73 in 5G and related techno in 2021
- Target Trainees >> 14,000 in 2020 and 30,000 in 2021



# Health and Wellbeing



# New Eco-system for Health and Wellbeing (Plant Centric)



## Technology Platform in EEC

### EECi - Biopolis



#### Chemical & Bioprocess Facilities

- ✓ Biorefinery
- ✓ Fermentation
- ✓ Bio-Extraction



Collaborating with



#### Innovative Agriculture Facilities

- ✓ Plant Factory / Smart Green House
- ✓ Phenomics Green House
- ✓ Open-Field Smart Farming



### Synchrotron Thailand



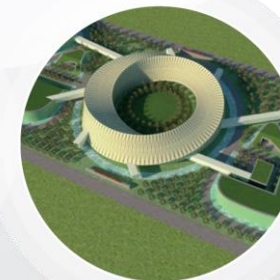
- ✓ Latest (4<sup>th</sup> generation) and Largest synchrotron light source in ASEAN

- ✓ Infrastructure for Nano-tech & Research

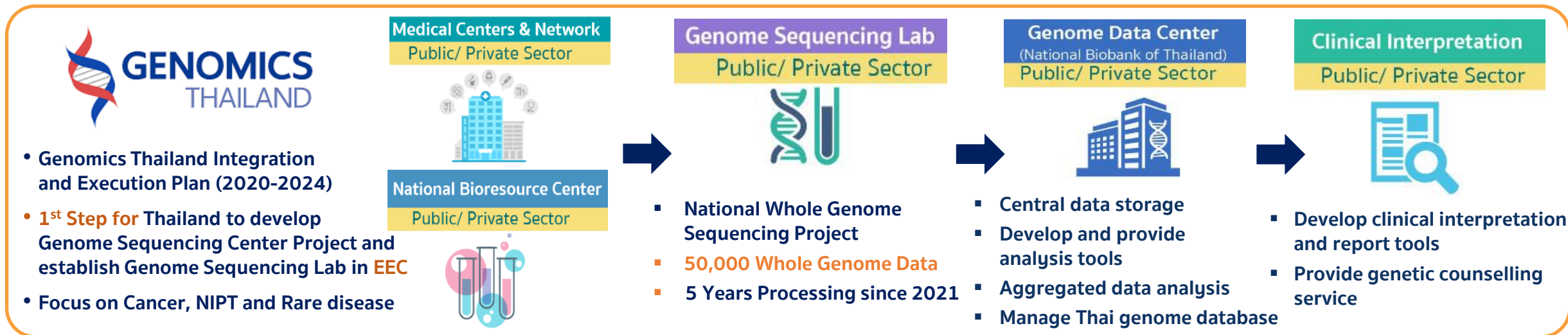
#### Targeted Industry & Technology

Material Science / Energy / Food / Environment /  
Biotechnology / Medical

Collaborating with



# New Eco-system for Health and Wellbeing (Human Centric)



## Business Opportunities

### Therapeutics

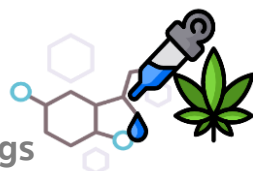


#### Precision Medicine

- Gene Therapy
- Personalized healthcare etc.

#### Regenerative Medicine

- Cell Therapy
- Small molecule & Biologic drugs
- Tissue Engineering



### Manufacturing



#### Digital Health

- Advance Health and Wellness Devices
- Telemedicine
- Bioinformatics



#### Personalized medicine

### R&D



#### Clinical Trials

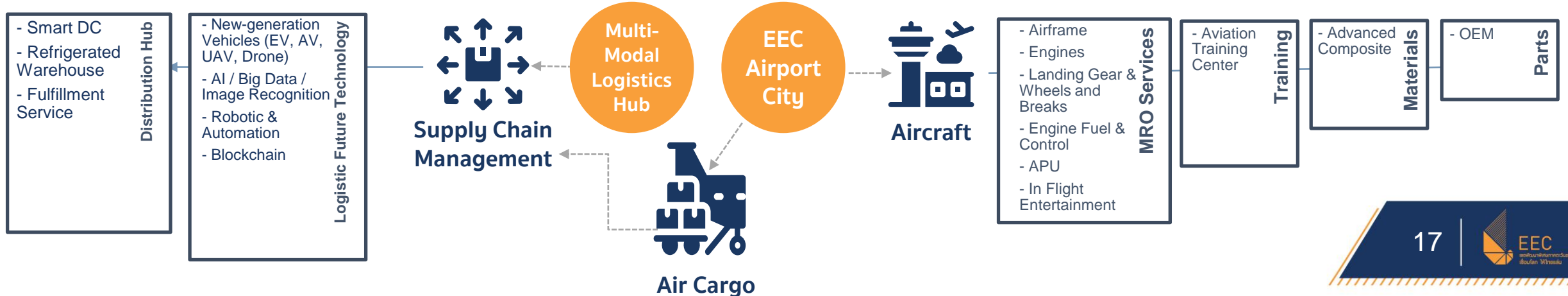
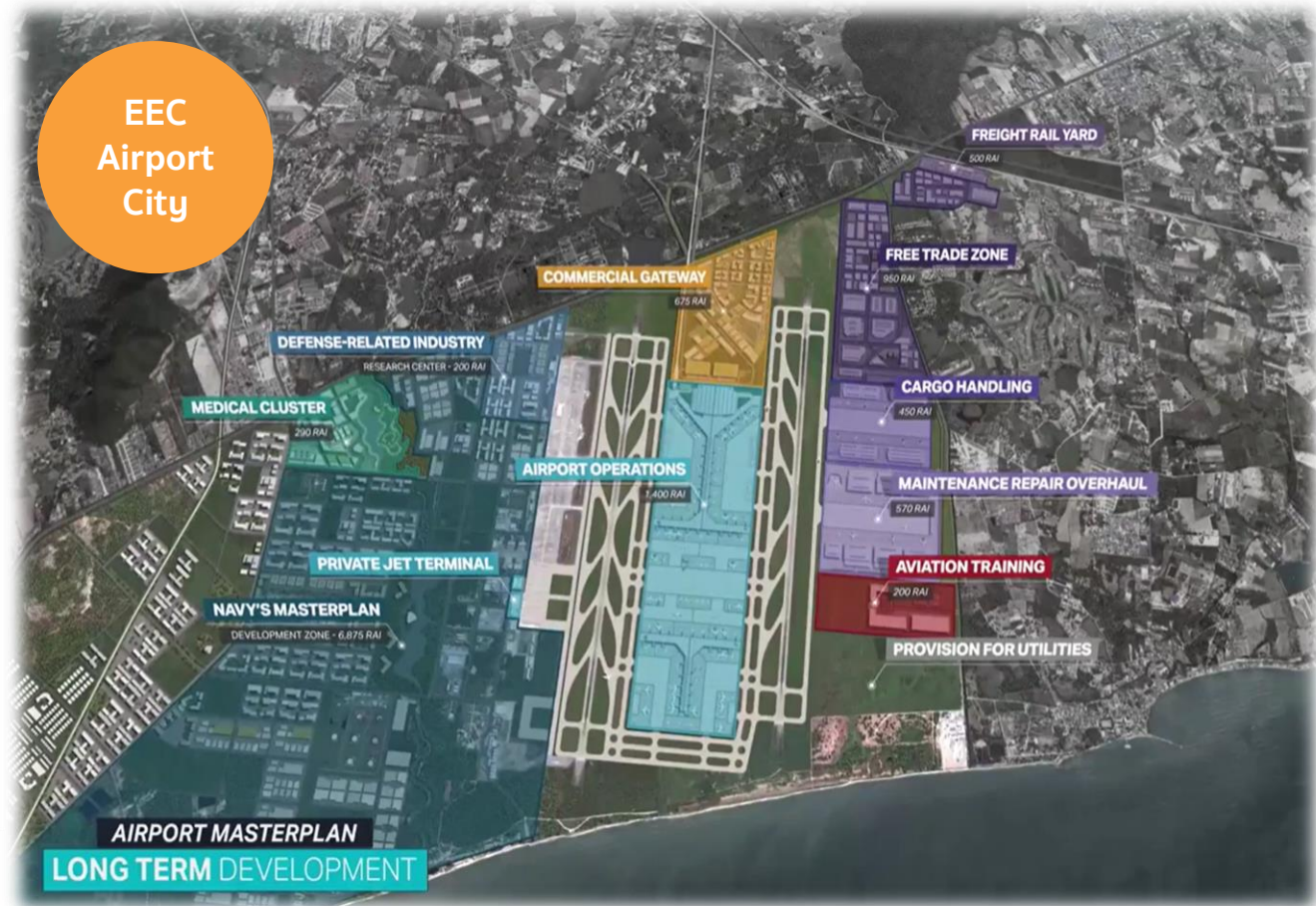


#### Pharmacogenomics

#### Drugs Discovery



# EEC's Complete Multi-Modal Transportation and Logistics



# BCG Model, Targeted Industries, and Green & Circular Economy



## EU Green Deal

- ✓ Transition to a Circular Economy
- ✓ Climate Pact & Law, Carbon tax
- ✓ Clean, Reliable and Affordable Energy



## US Executive Order on Tackling Climate Crisis at Home and Abroad

- ✓ Carbon-free electricity by 2035
- ✓ Net-zero emissions and 100% clean energy by 2050



## Paris Agreement

To limit global warming to well below 2, preferably to 1.5 degree Celsius - Net Zero -



**Thailand** is one of the Parties that ratified the **Paris Agreement** and announced Carbon Emission Reduction Target : **20-25% by 2030**

## Green Economy

### Bio Economy

### Circular Economy

Emphasis on effective use of biological resources while maintaining a balance of the environment

A tool to achieve international environmental agreements

Focus on increasing the product's value throughout lifetime, from production consumption to waste disposal

# Green & Circular Economy in EEC: Goal and Execution plan

## Objectives

## Plans

EEC becomes  
Net Zero Carbon  
Emission area  
for industrial  
sector

### Improve Energy Efficiency

### Enhance Resource & Waste Management

### Create Business Ecosystem

- Increase the share of electricity generation from renewable energy in industrial sector
- Enhance the infrastructure to support distributed power generation system (Smart Grid, Micro-Grid)
- Increase the share of electric vehicles in public transport

- Shift to Low-Carbon production to reduce carbon intensity
- Create a model industrial waste management in EEC area
- Incentivize investments related to reused and recycling businesses

- Promote the industrial production under international standards of Green & Circular Economy, i.e. ISO 14021 / 14024 / 14025
- Establish Carbon Trading System in EEC

- **Renewable power supply schemes for 30% of the total electricity demand in the EEC**
- **Develop Ban Chang district, Rayong as an EV City**

- **Total Waste Management Project in Rayong Province or “Rayong Model”**
- **Agricultural plan in EEC – to enhance agricultural product’s value added**





# EEC Promoted Zones

EEC has designated 21 Promoted Zones for 12 targeted industries and Promoted Zones for Specific Industries





# Promoted Zones For Targeted Industries

The EEC has designated 21 Promoted Zones to be a location for the 12 targeted industries. Investors will be eligible to receive both tax and non-tax privileges.

## List of Promoted Zones for Targeted Industries

- 1 WHA Rayong Industrial Estate
- 2 Eastern Seaboard (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 CP (Rayong)
- 11 Amata Nakorn Industrial Estate
- 12 Amata Nakorn Industrial Estate (2nd Project)
- 13 Amata City
- 14 Pinthong
- 15 Pinthong Industrial Estate (Laem Chabang)
- 16 Pinthong Industrial Estate (3rd Project)
- 17 Pinthong Industrial Estate (4th Project)
- 18 Pinthong Industrial Estate (5th Project)
- 19 TFD (2nd Project)
- 20 Yamato Industries
- 21 Smart Park

## 2 Industrial Clusters

- Next-Generation Automotive Banpho
- E-Commerce Bang Pakong



# Special Package for Investors in EEC Area



## EEC Incentives for Investment Promotion



### EEC Privileges

- 1) Ownership of land and residence
- 2) Foreigners to enter and reside in Thailand
- 3) Taxes and duties
- 4) Foreign exchange control
- 5) Others e.g. professional, grant



### BOI's Tax Incentives for EEC for Targeted Business Activities

- Knowledge-based activities
- Infrastructure activities for country's development
- High technology activities
- Technology and Innovation development



## Facilitation of Investment and Doing Business in EEC



### EEC Regulatory Sandbox

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



### Regulatory Guillotine



### EEC One Stop Service (EEC-OSS)

Facilitating permit application process through digital channel for 44 permits



### Long-term Land Lease

Extending the leasehold contracts from 30 to 50+49 years



# Education & Human Resource Development in EEC

## Workforce skill development at every level to meet demands



## New Skill

Adjust the teaching strategies, train teaching personnel and improve teaching materials in order to produce skillful workforce that meet the needs of the industrial sector



## Up Skill

Improve workforce skills to keep pace with the new technology through practical training



## Re Skill

Set up 6-12 month short term trainings for people working in unrelated field, lacking direct experience, or unemployed

# EEC Model **A**

Type **A** : Sattahip Model - Vocational Education

WORK INTEGRATED LEARNING (WiL) – a combination of academic and work-related activities

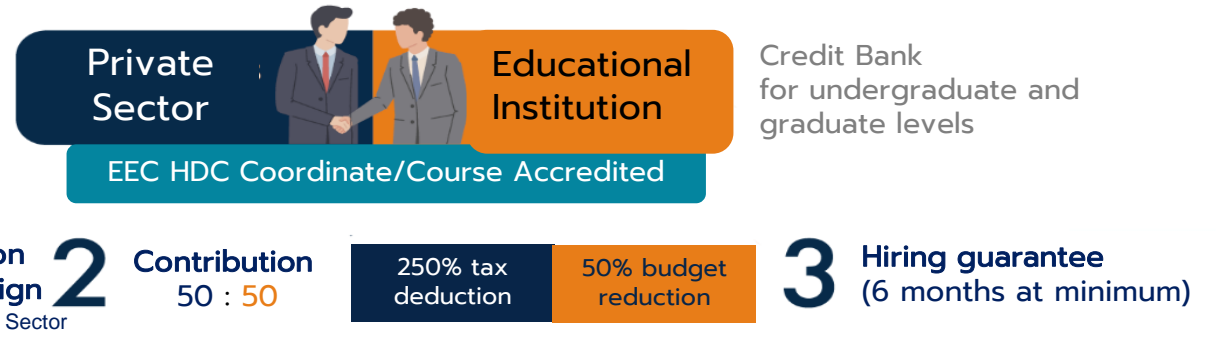
## The Collaborative educational services between educational institutions and the industrial sector



# EEC Model **B**

## Type D : Module Short Courses

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





EEC Useful Resources  
(English version)

# สื่อประชาสัมพันธ์ อีอีซี

EEC Useful Resources



[www.eeco.or.th](http://www.eeco.or.th)



สื่อประชาสัมพันธ์  
(ฉบับภาษาไทย)

1. EEC Progress
2. EEC 2-Year Report
3. High-speed Rail Linking Three Airports
4. U-Tapao International Airport & Eastern Airport City Project
5. Eco-Friendly waste management (SametModel)



1. ความก้าวหน้า อีอีซี
2. 2 ปี อีอีซี
3. รถไฟความเร็วสูงเชื่อม 3 สนามบิน
4. โครงการสนามบินอู่ตะเภา และเมืองการบินภาคตะวันออก
5. จบขยะที่สมืบด

1. EEC Brochure
2. 2 Years of EEC



1. 2 ปี อีอีซี
2. สาระสำคัญ และคำถาม-คำตอบ โครงการรถไฟความเร็วสูงเชื่อม 3 สนามบิน
3. สาระสำคัญ และคำถาม-คำตอบ โครงการสนามบินอู่ตะเภาและเมืองการบินภาคตะวันออก