



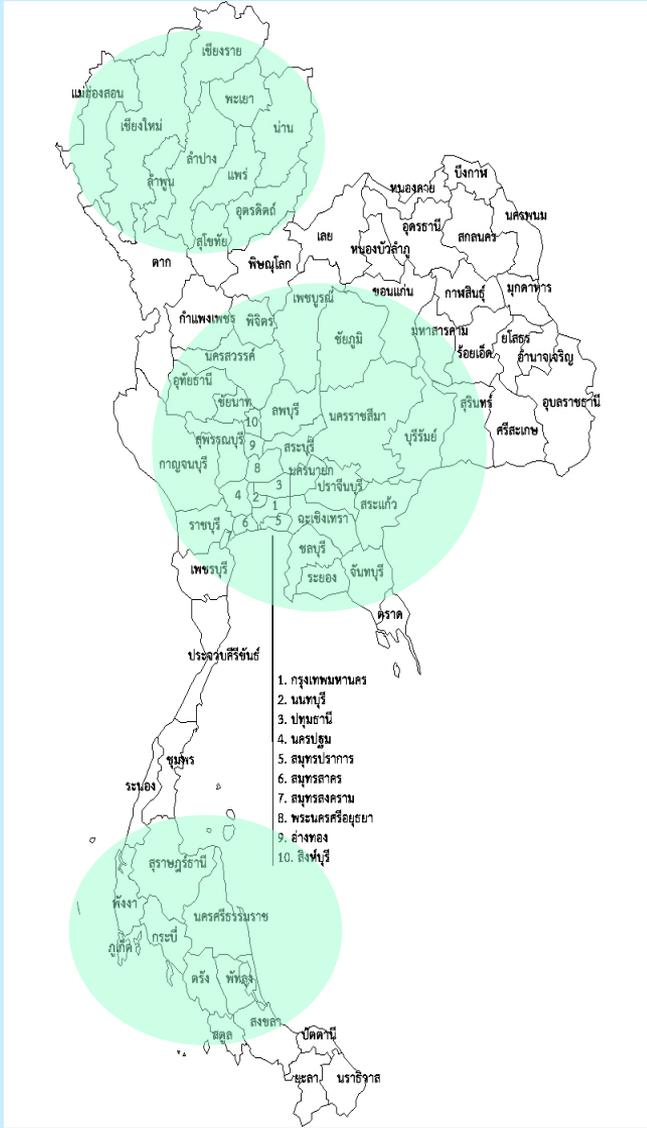
# Thailand Moving Ahead with Cluster Development

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**Minister of Industry**

**23 November 2015**

# **Concepts and Directions of Cluster Development**



## Cluster Development Policy

Develop potential and manufacturing based areas for targeted industries to support high technology activities and future industries that have linkages and supports between cluster compositions to enhance industrial competitive advantages

# OBJECTIVES OF CLUSTER DEVELOPMENT

**1. To strengthen industrial value chain leading to creation of future industry base**

**2. To build investment competencies to attract value added investment, from both existing and new projects, to invest in Thailand**

**3. To decentralize developments to regional and local areas, and create business opportunities for SMEs**

# IMPORTANT CLUSTER QUALIFICATIONS

**1**

**Centralization of industry in the strategic location for the development of a specific industry**

**2**

**Linkage in compositions, which strengthens the value chain and increase industrial competitive advantage**

(Manufacturers in the upstream-midstream-downstream industry, supporting industry, academic institutions, research institutions, Center of Excellence, government agencies, private organizations and other related compositions)

**3**

**Interconnected with local economy i.e. local employment or use of local raw materials, linked with local SMEs**

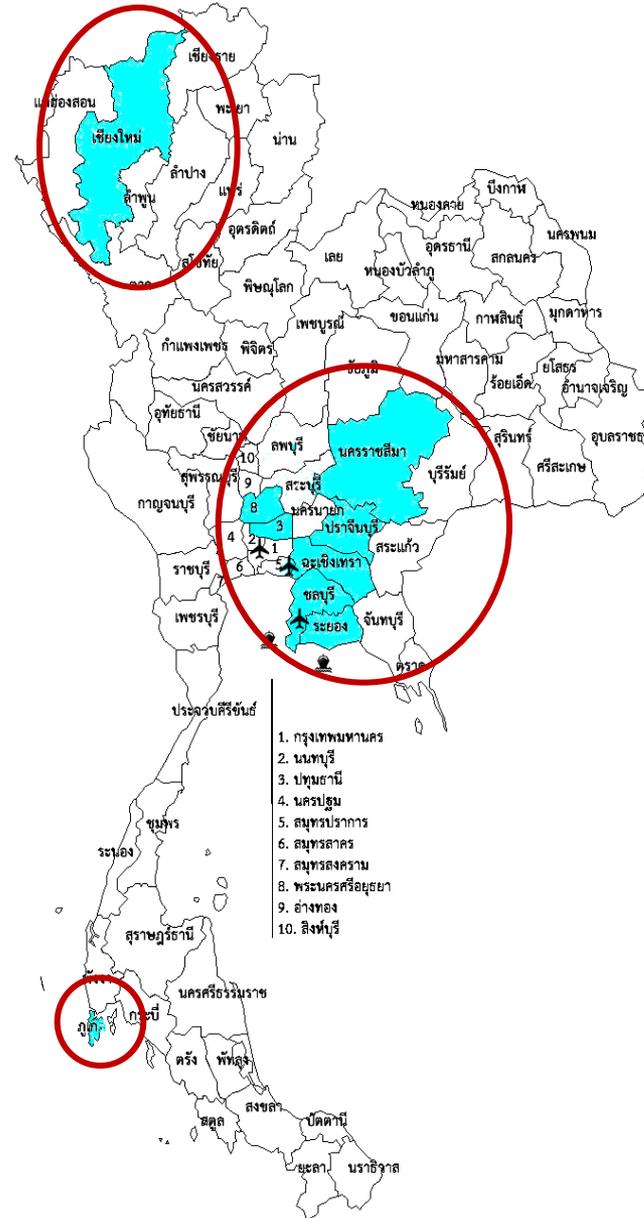
# SUPER CLUSTER

## Super Cluster

Cluster for activities using advance technology and future industry activities

e.g.

- Automotive and parts
- Electrical appliances, Electronics and Telecommunication equipment
- Petrochemical, eco-friendly chemical products
- Digital
- Food Innopolis
- Medical Hub

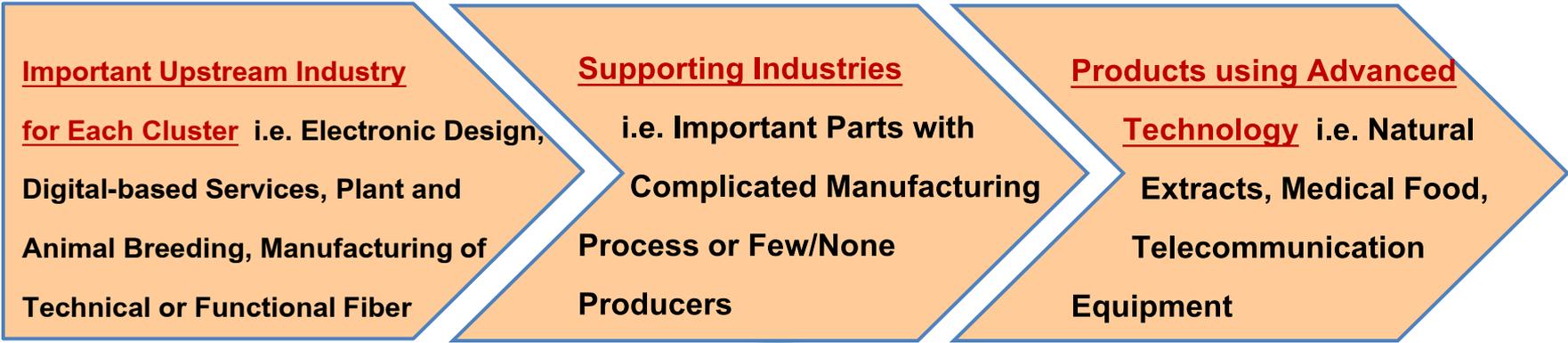


## 9 Provinces

- Nakorn Ratchasima
- Ayudhdhaya
- Patumthaini
- Prachinburi
- Chacheongsao
- Chonburi
- Rayong
- Chiang Mai
- Phuket



# PROMOTED TARGET ACTIVITIES IN EACH CLUSTER



## Basic Infrastructure to Improve Industrial Clusters

### Knowledge-Based Industries

i.e. R&D, Biotechnology, Engineering Design, Vocational Training Centers, Scientific Laboratories, Calibration Services

### Logistic Industries

i.e. Commercial Airports, Rail Transport, Loading/unloading Facilities for Cargo Ship, Inland Container Depots (ICD), International Distribution Centers (IDC)

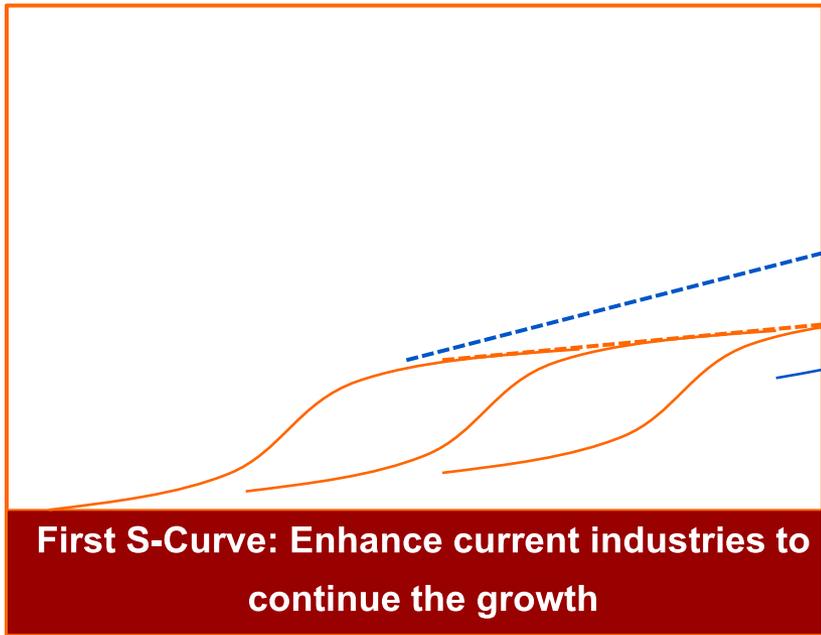
# CABINET RESOLUTION ON 22 SEPTEMBER 2015

1. **Agreed with the Cluster Development Policy and assigned related government agencies to support the Cluster Development.**
2. **The Ministry of Industry will be the main government agency for driving the Cluster Development Policy and be the center of coordination between clusters.**
3. **The Policy-driven Committee on Special Economic Development Zones has assigned the Ministry of Industry and related agencies to perform and support the cluster development urgently. Also, BOI have to determine privileges for special activities considered by Prime Minister orders in the next phrase.**

**10 Targeted Industries:  
Mechanism to Drive Economy for the Future  
(New Engine of Growth)**

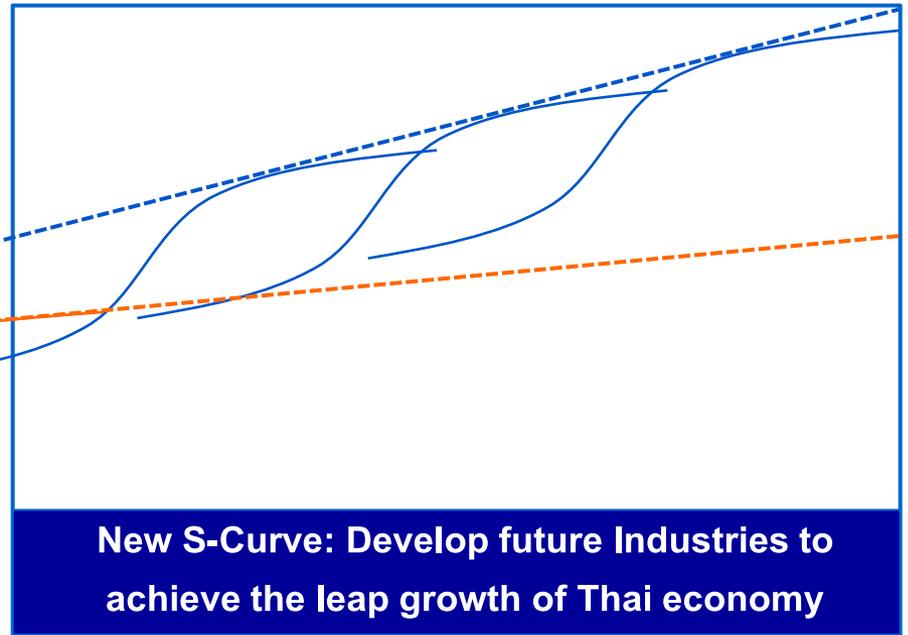
# 5 + 5 TARGETED INDUSTRIES

## Short to Medium Term



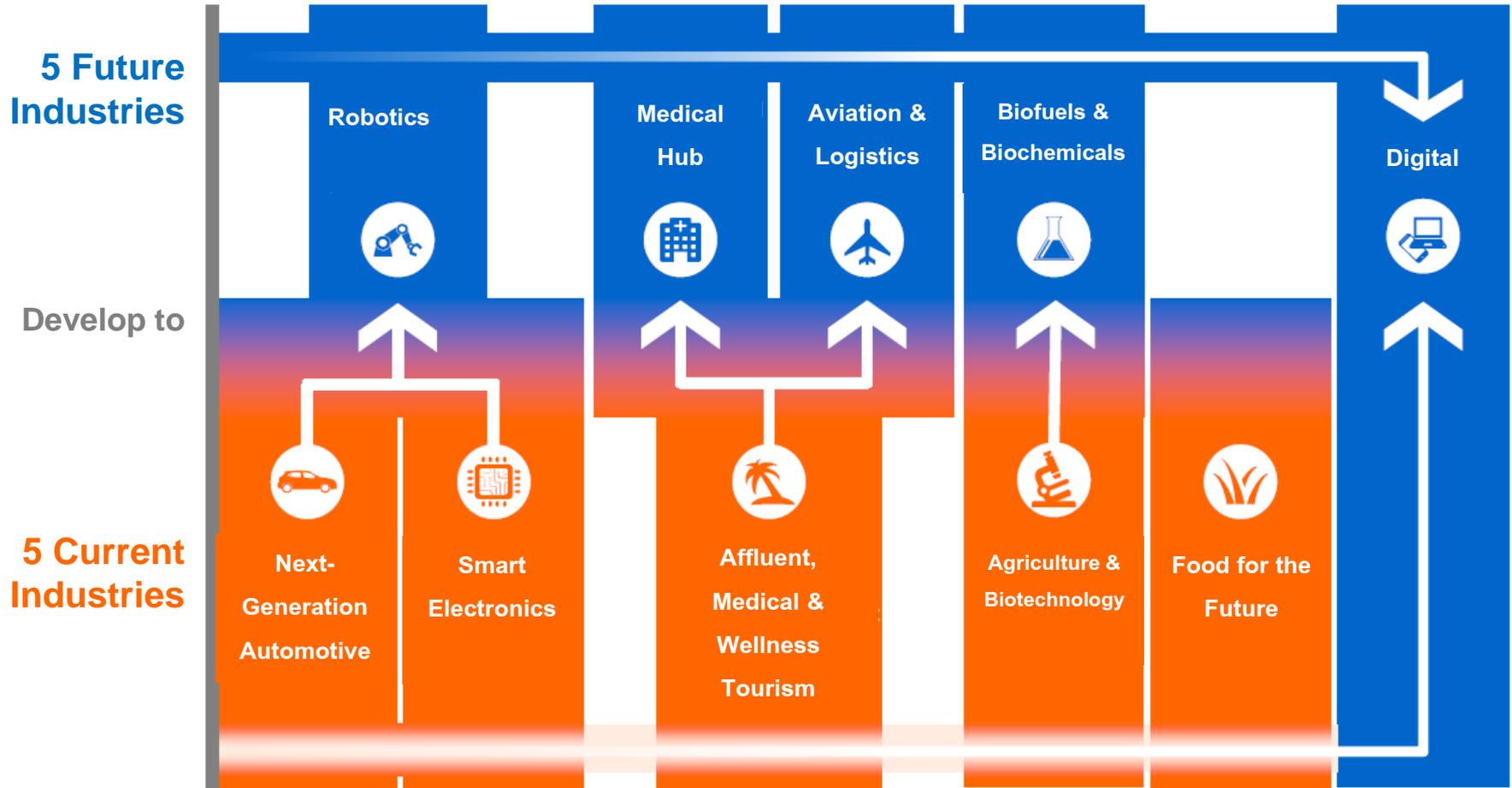
- Next-Generation Automotive
- Smart Electronics
- Affluent, Medical & Wellness Tourism
- Agriculture & Biotechnology
- Food for the Future

## Long Term



- Robotics
- Aviation & Logistics
- Biofuels & Biochemicals
- Digital
- Medical Hub

# DEVELOP FUTURE INDUSTRIES FROM CURRENT INDUSTRIES



# DEVELOPMENT OF 5 FUTURE INDUSTRIES



## Robotics

Robots in Automotive, Plastic & Electronic Industries – Medical Robots – Underwater Robots (Remotely Operated Underwater Vehicles: ROV)



## Aviation & Logistics

Services for Transport – Modern Logistics Service Centers – Aerospace Maintenance, Repair & Overhaul: MRO – Manufacture of Aerospace Parts (OEM) – High Value Business with Time-Sensitive Products – Aviation Training Centers



## Medical Hub

Telemedicine to Follow, Consult, Diagnose & Treat – Manufacture of Remote Health Monitoring Devices – Biologics & Biosimilars



## Biofuels & Biochemicals

Second Generation Biofuels – Biochemical Industry by Developing Midstream Industry – Bioplastics – Lead to BioEconomy



## Digital

Embedded Software, Enterprise Software & Digital content – E-commerce (Sell-Buy-Pay-Deliver) – Consumer Insight Analytics and Data Centers – Cloud Computing – Cyber Security – Internet of Things: Enabled Smart City – Creative media and animation