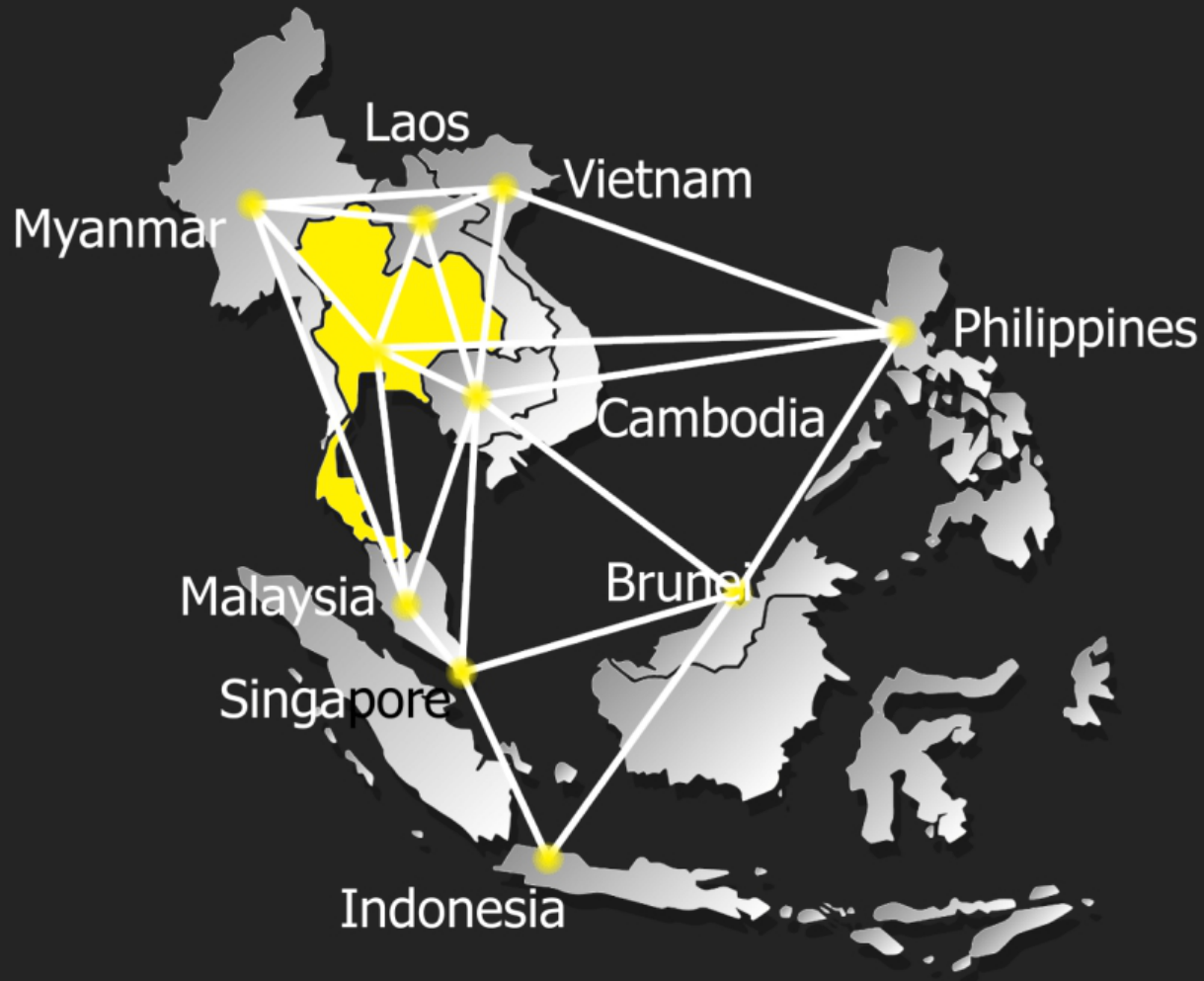# Infrastructure for Doing Business in Digital Sector in Thailand

Ajarin Pattanapanchai
Permanent Secretary
Ministry of Digital Economy and Society

Digital Thailand Statistics

TOTAL POPULATION

69.7 Million

INTERNET USERS

57 Million

PENETRATION: **82%**

ACTIVE SOCIAL MEDIA USERS

52 Million

PENETRATION: **75%**

MOBILE CONNECTIONS

130 Million

vs POPULATION: **187%**

ACTIVE MOBILE SOCIAL USERS

49 Million

PENETRATION: **71%**

International Internet Bandwidth

12 Tbps

E-Commerce Value

99.1 Billion USD

ICT Worker

386 Thousand people

Source: We Are Social, Hootsuite, NBTC, ETDA

Thailand is at the forefront in internet and social media usage

#1
74% Mobile Banking Penetration

#8
74% Social media penetration
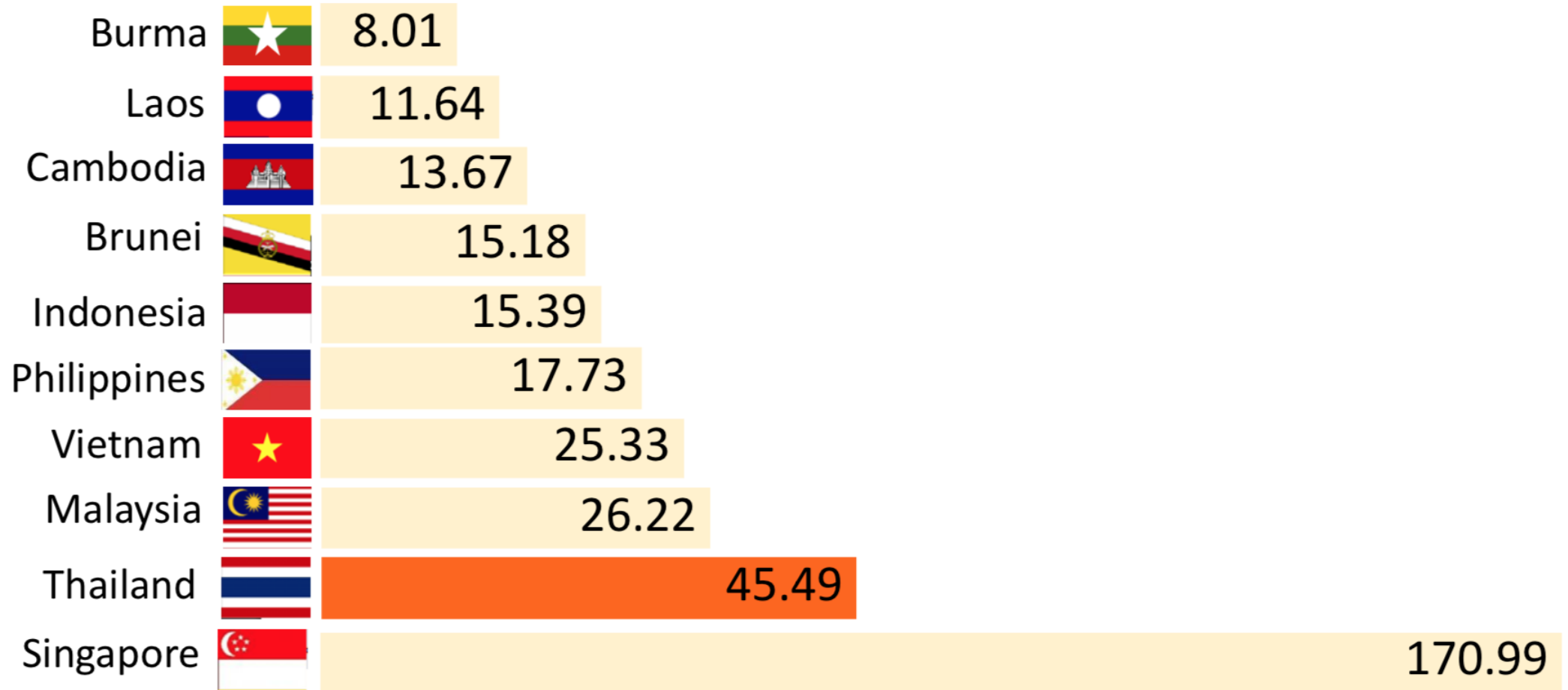
#5
85% E-Commece usage amongst internet users

#8
133% Mobile Broadband Connectivity

ASEAN INTERNET SPEED (Mbps)

Country	Speed
Burma	8.01
Laos	11.64
Cambodia	13.67
Brunei	15.18
Indonesia	15.39
Philippines	17.73
Vietnam	25.33
Malaysia	26.22
Thailand	45.49
Singapore	170.99

Source: speedtest

VISION & STRATEGY

VISION

DIGITAL THAILAND
for Thailand 4.0

GOAL
Establish a new s-curve digital industry to enhance Thailand competitive advantage through **Digital Transformation**.

National Policy for Digital Economy and Society Development	Digital Infrastructure	Digital Government
Digital Manpower	New S-Curve Digital Industry	Digital Technology & Innovation

Thailand's Digital Economy Infrastructure Development

Enhance basic telecommunications and drive the economy and digital society.
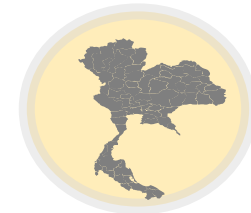

National Broadband Internet

Enhance high-speed internet systems to help develop the domestic economy

ASEAN Digital Hub

Enhance international connectivity with Thailand as a hub for the region

Village Broadband Internet Project

To strengthen national broadband infrastructure and provide affordable high-speed internet access across Thailand

Building an inclusive and sustainable connected society

Expanding high-speed internet network in 74,987 villages by 2020
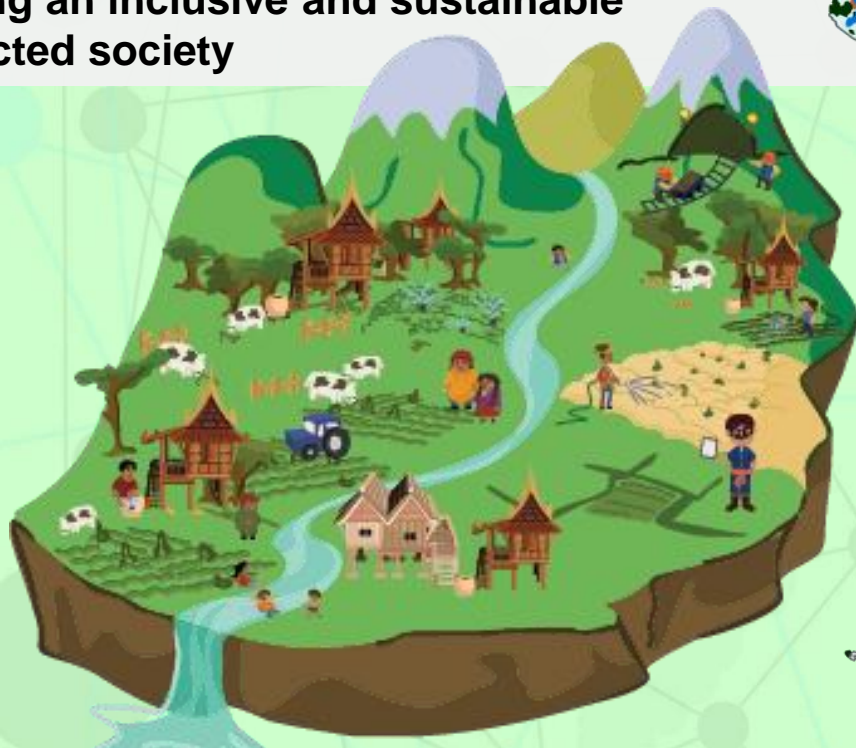
Area: remote, non-commercial potential, and no high-speed internet service area

Education

Local workforce development

Course development

Health

Medical equity

Impact

Society

Jobs opportunities

Reduce skilled labor migration

Happy family

Economy

Increase income
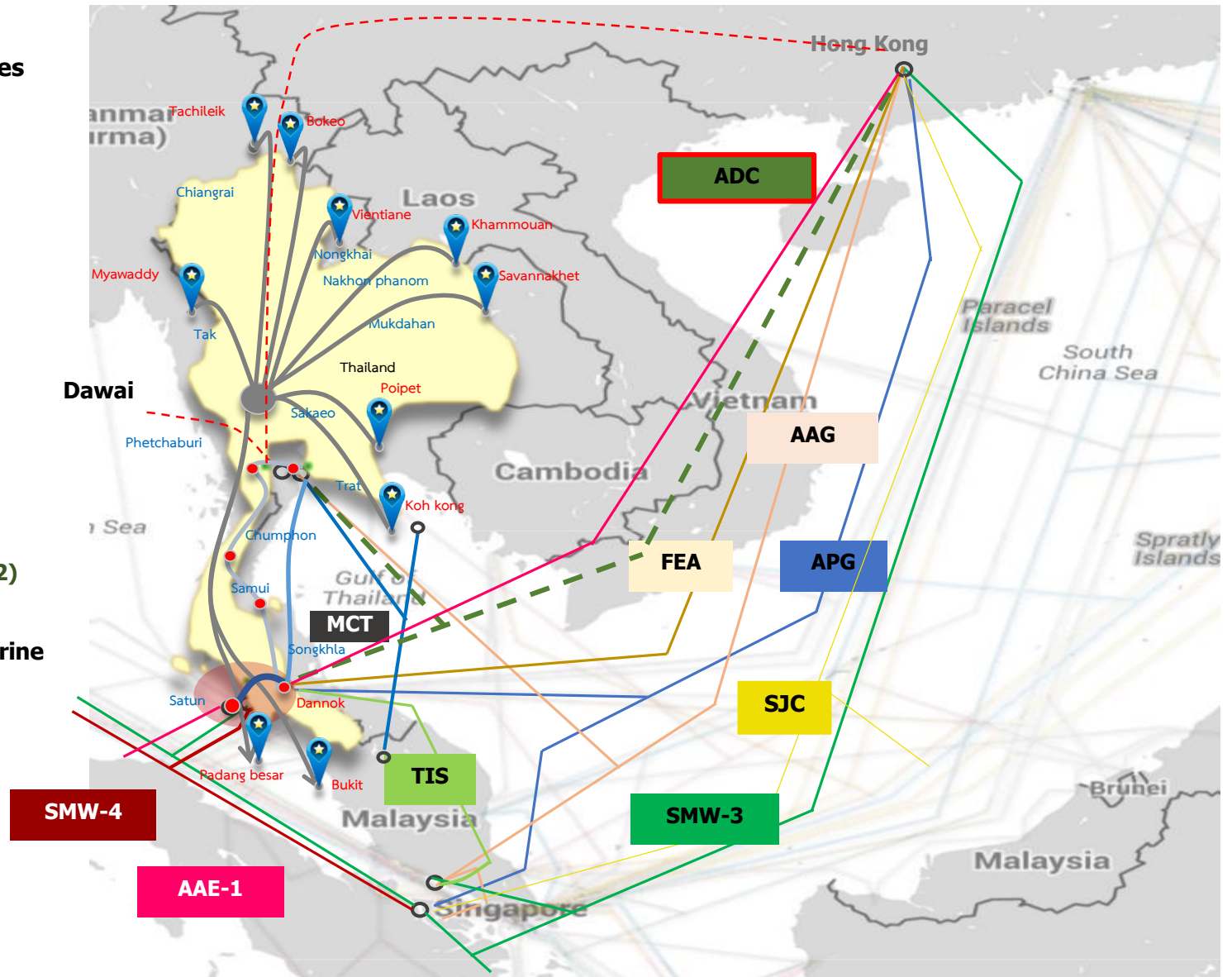
THAILAND
International Submarine Cable System

Existing Submarines

1. FEA
2. SeaMeWe-3
3. TIS
4. SeaMeWe-4
5. AAG
6. SJC[1/]
7. APG
8. AAE-1
9. ADC (by 2022)

Private Sector's Submarine

1. MCT

Thailand internet growtgh rate last 5 year 57%

5G Testbed in EEC

depa

| | Present Activities | Next Step |

Use Cases

Smart City
- Face Recognition, Smart Bus, Drone, Intelligent CCTV

Smart Mobility
- Unmanned Aerial Vehicle = uav

Entertainment
- Streaming 4K
- Multi-UHD Video Live, 360 Wireless VR

Industry 4.0
- 6-Axis Articulated, Industrial Robot
- Motion Controller, Servo Motor
- Machine Monitoring System (MMS)

5G Testbed and development for various apps

5G

Infrastructure

Soft Infrastructure
- ⬡ Testbed License

Hard Infrastructure
- ⬡ Smart Pole, WiFi6
- ⬡ 5G Infrastructure Preparation & Set Up

5G Sandbox License ≫ **5G Auction**

Manpower

- ◆ 5G On Boarding for Business Leader (80 persons)
- ◆ 5G Testbed for Next Generation Technology (60 persons)

- ◆ Delvelop digital specialist (AI, IoT) by IoT Institute

Digital Laws

- ❖ **Computer Crime Act (No. 2) B.E. 2560**

- ❖ **Broadcasting and Telecommunications Services Act (No. 3) B.E. 2562**

- ❖ **Electronic Transactions Act (No. 3) B.E. 2562**

- ❖ **Personal Data Protection Act B.E. 2562**

- ❖ **Cyber Security Act B.E. 2562**

Key Infrastructure Projects: Eastern Economic Corridor (EEC)

247,105 Acres
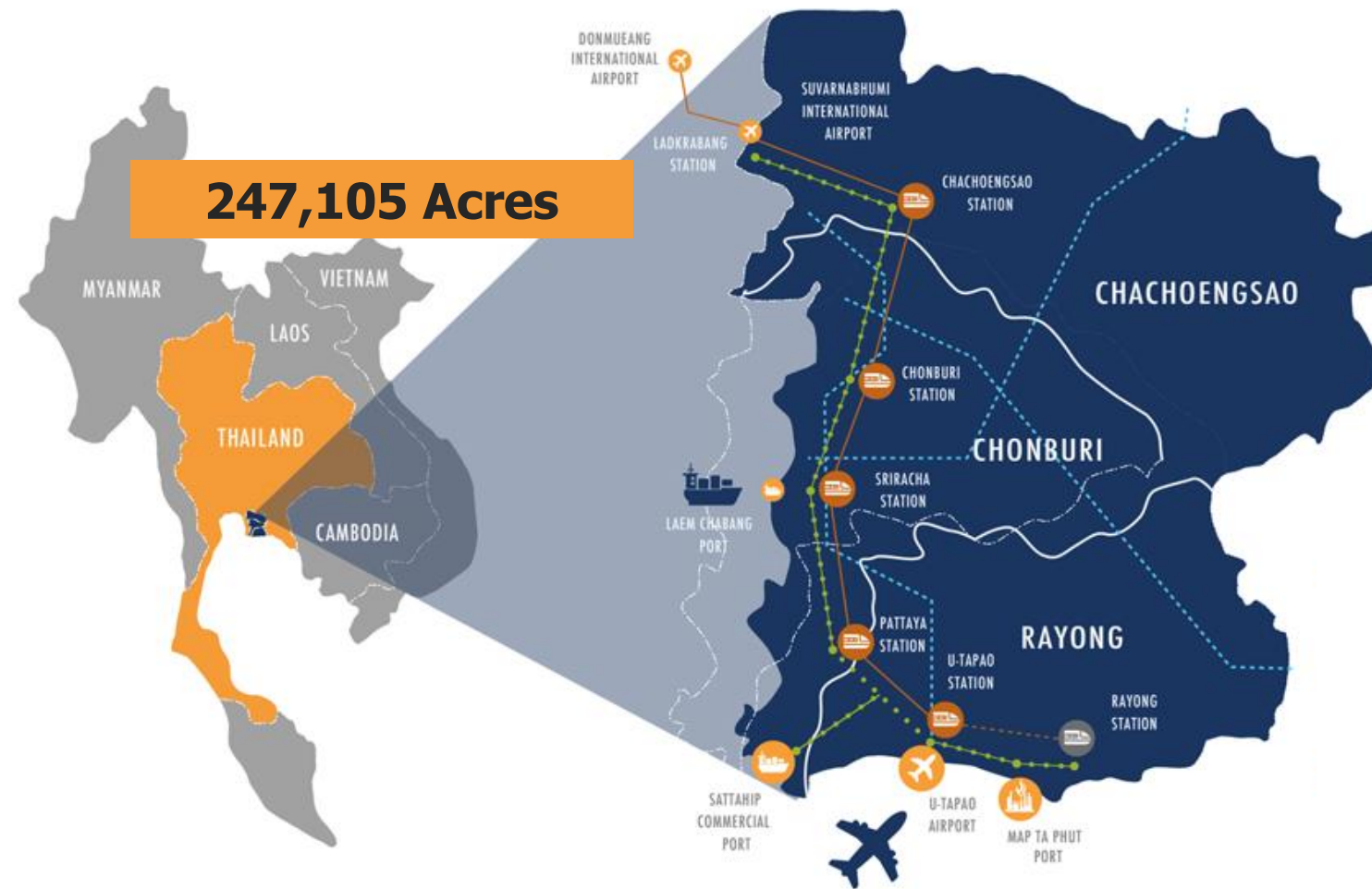
Center for automotive and auto parts
Transforming to **EV development**

- **Tier 3+, 4 Data Center :**
  Supernap , NTT, PPT
- **Hub of Telecom and Smart Devices**

Location of automation and robotics suppliers in ASEAN

Hub of aviation and MRO service

THAILAND: An Asian Hub, a World of Opportunity

THAILAND BOARD OF INVESTMENT

Executive Summary

Digital Park Thailand ("EECd")

June 2020

Digital Park Thailand

Thailand Digital Park : Location
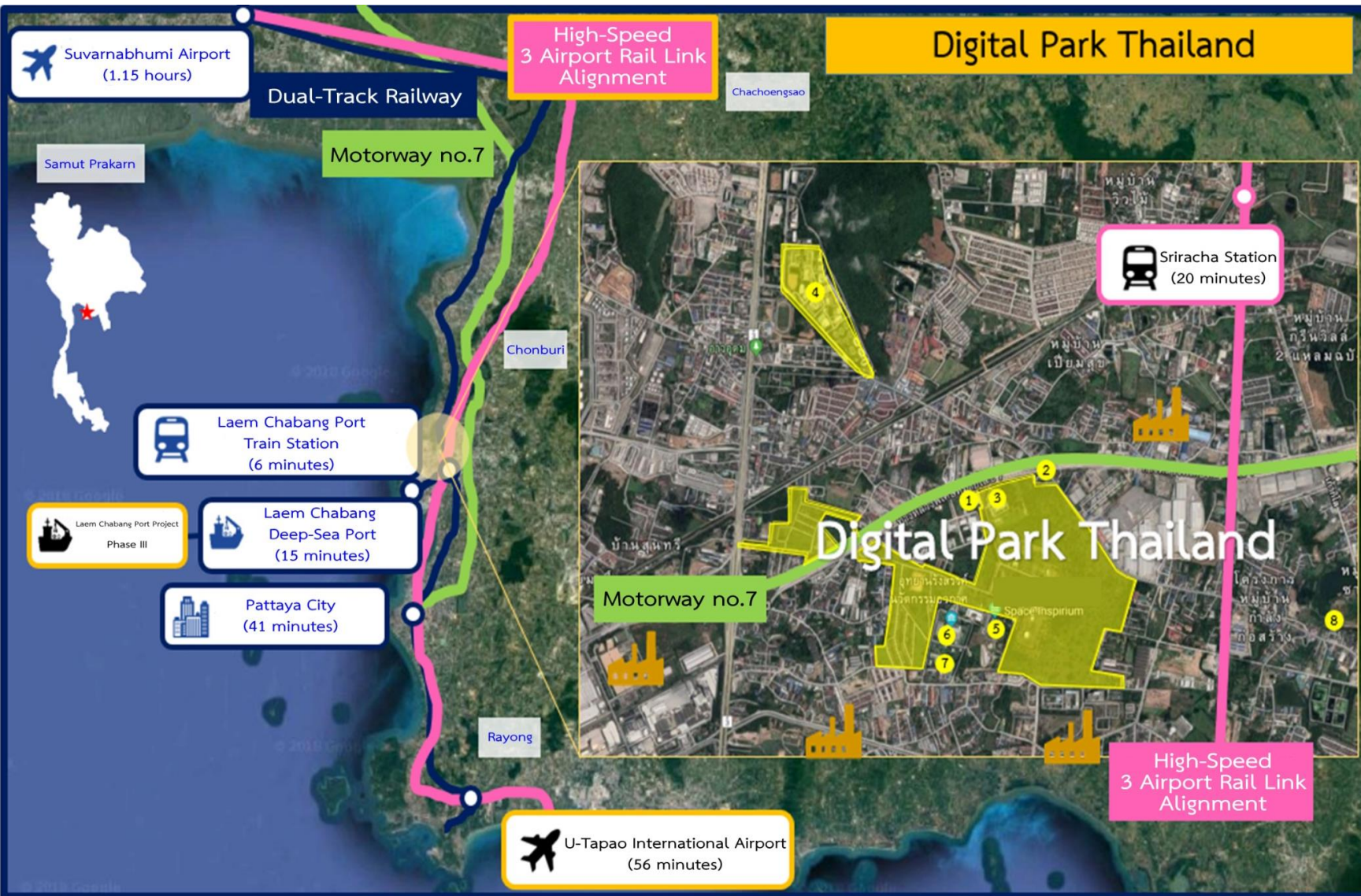
EECd is located in Sriracha, a prime and center of EEC area, which surrounded by important industrial estates and many supportive infrastructure projects allow commuting to the project area can be made easily.

- Submarine Cable Landing Station
- Satellite Station
- Motorway Project
- Dual-Track Railway Project
- High-Speed 3 Airport Rail Link
- 2 Major Deep Sea Port
- U-Tapao airport

Digital Park Thailand @ EEC

Thailand Digital Valley

1. Smart City Platform

2. Startup Incubation & Acceleration Metro (SAM)

10. Smart Logistics (EECL)

7. Digital Academy & Community Center

4.5G Testbed

5. Digital Playground

3. Cyber Security

8. Digital Enterprise eXcellence Center (DeX)

9. Animation & 3D Design Center

6. Advance Big Data, Cloud and Data Center (ABCD)
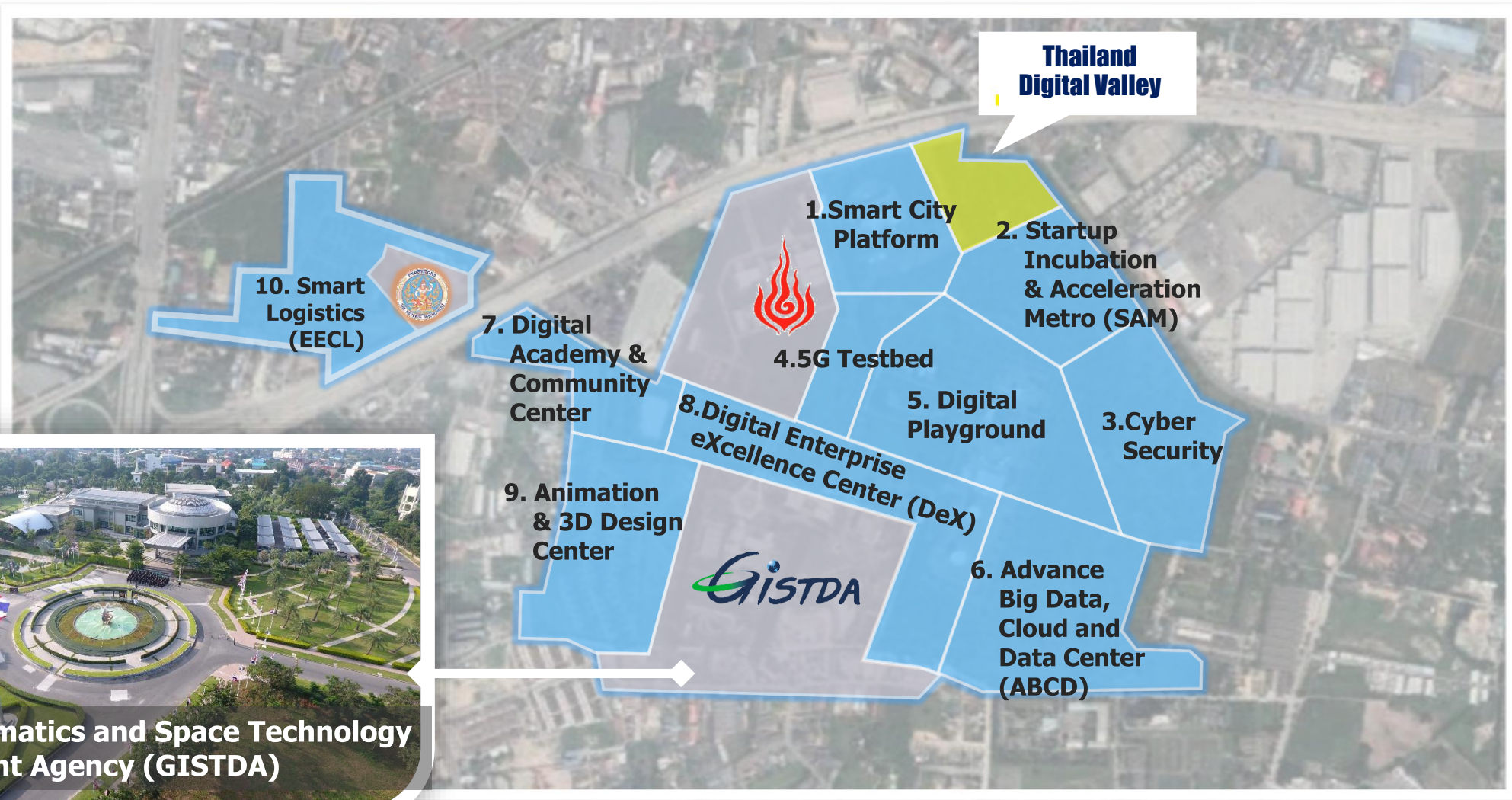
Geo-Informatics and Space Technology Department Agency (GISTDA)

Department of Energy Business   **The Revenue Department**

Thailand
Digital Valley Landscape

depa

D0
depa and
Smart City
Offices
[1,500 sq.m.]

D4
Digital
Go Global
Center
[20,000 sq.m.]

D2
Digital
**Co-Creation
and Innovation**
Center
[40,000 sq.m.]

to Bangkok

D1
Digital
**Knowledge
Exchange**
Center
[4,500 sq.m.]

D3
Digital
Edutainment
Complex
[20,000 sq.m.]

๑๖

Digital Valley in EEC

Digital Startups and Co-working center (First building)
4,500 sq.m.

Digital Innovation and Co-Creation Center (Second building)
40,000 sq.m.

Digital Edutainment Complex (Third building)
20,000 sq.m.

Digital Global Connect (Fourth building)
20,000 sq.m.

- Digital Valley comprises of 4 buildings. The first building **is scheduled to be completed about 2 years from now** and the remaining 3 buildings will be opened for joint venture by the private sectors.

- **Currently, Digital Valley is in Phase 1 of construction.**

- Approximately 60% of the area will be designated for 5G lab, cloud innovation lab, AI design lab, and data analytics center.

Potential Tenants

1. Smart City Platform

IBM Watson · Microsoft Azure · LUMADA · SIEMENS · CISCO · FUJITSU · HUAWEI

2. Startup Incubation & Acceleration Metro (SAM)

500 · techstars · PLUGANDPLAY · Y · MC MASSCHALLENGE

3. Cyber Security

Symantec · CISCO · McAfee · Microsoft · ATLANTIC DATA SECURITY · IBM Security · GDATA TRUST IN GERMAN SICHERHEIT · paloalto NETWORKS · CipherCloud Trust in the Cloud

4. 5G Application

HUAWEI · Qualcomm · SIEMENS · ERICSSON · NOKIA · Hewlett Packard Enterprise

5. Digital Playground

wework · 數碼港 Cyberport · BOUNCE INC FREE-JUMPING REVOLUTION · IMPACT HUB · N15 HARDWARE ACCELERATOR · LEGO education · CYBERJAYA MALAYSIA

6. Advance Big Data, Cloud and Data Center (ABCD)

aws · Microsoft Azure · ORACLE CLOUD · Alibaba Cloud · IBM Cloud · tableau SOFTWARE · Google Cloud · CLOUDERA

7. Digital Academy & Community Center

Microsoft Azure · IBM Watson · CODE STUDIO · LEGO education · PMQ 元創方 · MIT · Stanford University · HARVARD UNIVERSITY · UNIVERSITY OF OXFORD

8. Digital Enterprise eXcellence Center (DeX)

VISA Innovation Center Singapore · HUAWEI · 財團法人資訊工業策進會 INSTITUTE FOR INFORMATION INDUSTRY

9. Animation & 3D Design Center

DASSAULT SYSTEMES · unity · DREAMWORKS · AUTODESK · SIEMENS · PIXAR

9. Smart Logistics (EECL)

AliExpress · FedEx · KERRY · UPS · DHL · amazon · MAERSK LINE · GOFAST FREIGHT FORWARDING · OOCL · 京东物流 JD Logistics · EVERGREEN · GOJEK · CMA CGM

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Thank you