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## **Smart City Thailand: Concepts and Visions**

Submitted by: Thailand



Conference on Promoting Smart Cities
Through Quality Infrastructure Investment
in Rapidly Urbanizing APEC Region
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Smart City Thailand: Concepts and Visions

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APEC Tokyo Conference on Promoting Smart Cities through Quality Infrastructure Investment in Rapidly Urbanizing APEC Region









# Thailand's Smart City Mechanisms



Candidate Cities
(Provinces, Municipalities, Landowners)

**Smart City Thailand Office** 

- Steering Committee
- Sub -Committee (Smart City's Project Management)









#### **DEPA AND THE SMART CITY**

As the leader of Smart City Thailand, depa takes a three-pronged approach to building and supporting a burgeoning smart city marketplace.

It does this through three primary activities:

- Policy, regulations and incentives development
- Demand generation through city enrollment in its Smart City Thailand promotion programme
- Supply matching through startup incubation and SME support.

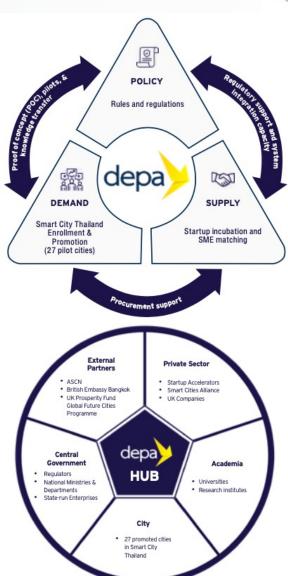
#### **DEPA AS THE CONNECTOR**

depa has positioned itself to be the connecting hub between the many stakeholders involved in smart city development.

In a more mature smart city market, connections between various stakeholders will happen more organically, building off of an active ecosystem and strategic plan to drive forward service delivery and user-focused solutions.

However, in Thailand where the smart city sector is still in its early state, depa aims to orchestrate these connections more deliberately and overtly in order to facilitate the growth of the Thailand market.

Source: Smart City Handbook Thailand http://bit.ly/smartcityhandbook



# YOUNG & EMERGING

Having only been founded in 2017, and the Smart City Thailand office itself being just over a year into its existence, depa and its mission are both young.

As the primary government sector agency charged with facilitating development of the smart city market in Thailand, depa is still seeking out new and innovative ways to engage with stakeholders, just as the market itself is still taking shape.

With a growing sphere of influence and expertise related to smart cities, depa represents the one-stop-shop for both international and local partnerships.

depa provides an active entry point into the market and can act as a first point of contact for any foreign companies and government organisations looking to explore market opportunities or engage in business in Thailand's emerging smart city market.

Get in touch: doss@depa.or.th











# Phuket

Illustrations Courtesy of Fujitsu & IBS, Toyota Tsusho, Ministry of Land, Infrastructure, Transport and Tourism of Japan

### Phuket Tourism MaaS Image Diagram (Draft)

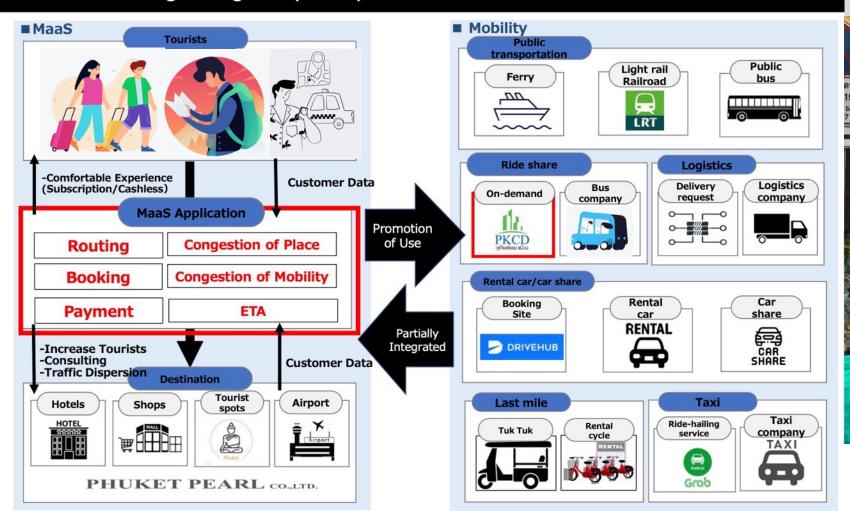




Photo by <u>Bao Menglong</u> on <u>Unsplash</u> Photo by <u>Alexandr Popadin</u> on <u>Unsplash</u>





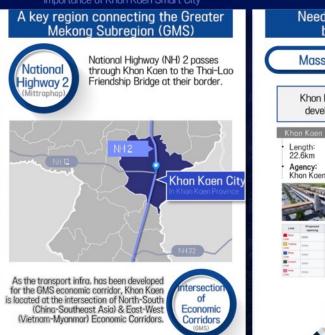




# Khonkaen

Illustrations Courtesy of Korea Transport Institute (KOTI) and the Taskforce of Khon Kaen K-City Global Collaboration Program







Short Term - Pilot (1) Priority signal service for emergency vehicles

#### Service Overview

When an emergency vehicle (ambulance, etc.) moves in order to transport an emergency patient, detect the position of the emergency vehicle in real time and control intersection signals in the travel route to the destination (medical institution) in order to support the right of war for the emergency vehicle.

#### Remote contr

- Control all intersections connected to the center
- Possible to add or change a priority signaling route

#### Decrease in travel time

The result of a pilot project in Korea shows that the travel time decreases by approximately 40%.

#### Provide the driving path information for emergency vehicles

Possible to provide and check the information of signal status for all intersections on the driving path of the emergency vehicle

#### mplementation Plan

#### Short Term - Pilot (3) Smart Crosswalk

Service Concept Provide safety-related information to pedestrians, drivers/motorcyclist at unsignalized or signalized crosswalks by sounding an alarm, displaying messages and controlling the traffic signal based on detected pedestrian/cor/motorcycle information using IoT and ICT technologies.



- ▶ ► Service and operation plan
  - et Vehicles, motorcycles or pedestrians

Service range - Major crosswalks in Khon Kaen City

Service Function

Detect peds and vehicles/motorcycles at the crosswalk
Provide ped, signal information to peds and ped crossing information to vehicles/miotorcycles
Pedestrian signal violation warning, vehicle/motorcycle
stop line possing or speeding violation warning

stop line passing or speeding violation was CCTV-based site monitoring

- ▶▶ Expected effects
- Reduce accidents involving pedestrians at crosswalks and the
- Prevent jaywalking
- Improve the environment for pedestrians roads

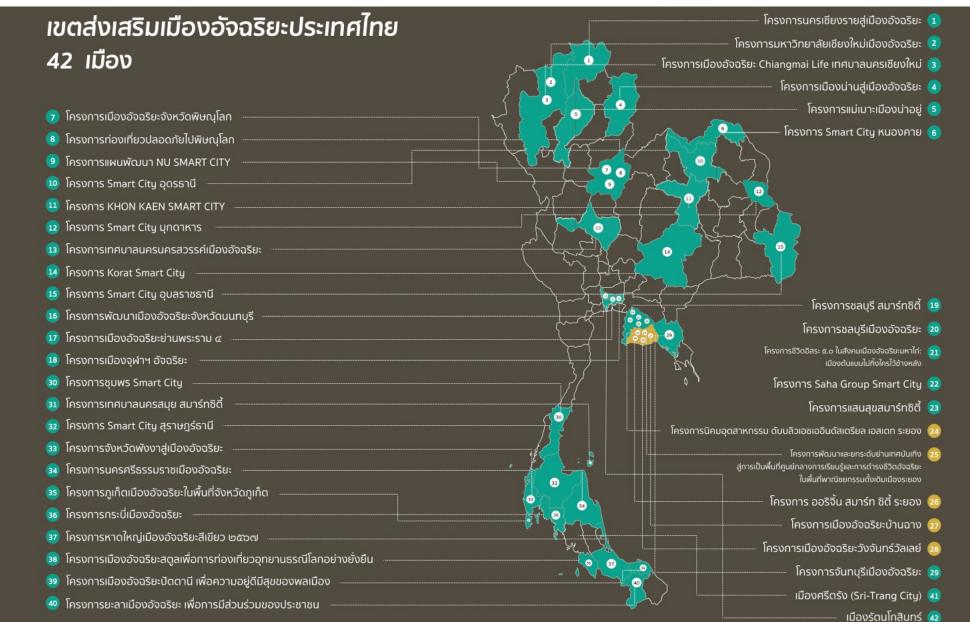














### หลักสูตร

### **Fundamental of Smart City**

พื้นฐานองค์ความรู้การพัฒนาเมืองอัจฉริยะ สำหรับคนทั่วไปที่ต้องการเข้าใจความรู้ พื้นฐานด้านการพัฒนาเมืองอัจฉริยะ หนึ่งในองค์ประกอบหลักสูตรผู้นำเมืองอัจฉริยะ น่าอยู่ Chief Smart City Officers (CSCO)



โดย สำนักงานส่งเสริมเศรษฐกิจดิจิทัล และ สำนักงานเมืองอัจฉริยะประเทศไทย



ู้เริ่มเปิดรับสมัคร ในเดือนสิงหาคม 2563

เพื่อรับสิทธิ์การเรียน

ผู้ที่เข้ารับการอบรมครบทุกองค์ประกอบ จะได้รับประกาศนียบัตร CSCO



ดิดต่อสอบทามได้ที่ : ฝ่ายส่งเสริมเมืองอัจจริยะ สำนักงานส่งเสริมเศรษฐกิจดิจิทัล e-mail : scp@depa.or.th โทร: 02 0262333 ต่อ 5109









