

Phuket Smart City

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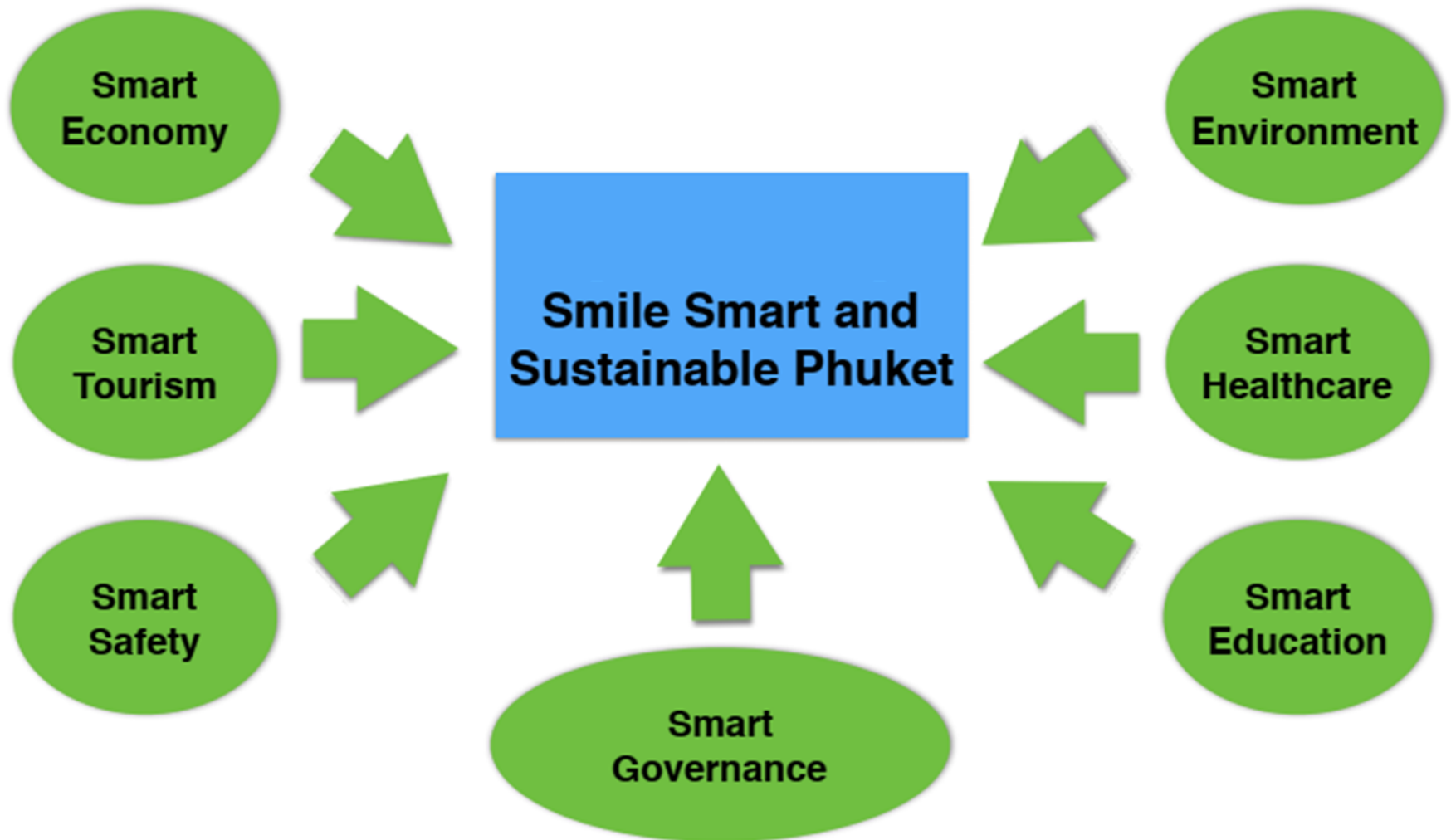




Phuket Smart City 2020



Phuket Smart City Vision :
“The **Tourism** Island of **Sustainable** growth by enhancing
Creative Economy to provide **Happiness for all**”



Phuket Smart City 2020 Vision : Smile Smart and Sustainable

	Area	Vision 2020
1	Smart Economy	Hub of Creative Economy
2	Smart Tourism	Enjoyable Tour and Convenient Life
3	Smart Health	One Patient Single ID
4	Smart Safety	Phuket Safe City
5	Smart Environment	Phuket Green City
6	Smart Education	Smart Learning Community
7	Smart Governance	Smart and Sustainable Phuket

Smart Economy : Hub of Creative Economy

Goal
2020

1,000 Creative Entrepreneurs

Digital Workers and Investors
Paradise

Strategy

- Drive local SMEs to be creative entrepreneurs
- Invite Digital Entrepreneurs, Digital Workers and Digital Investors to Phuket
- Build Local Startup on IoT Smart City

Projects

Innovation Park

Invest Phuket

Startup Ecosystem

Int Creative Ent Academy

Phuket Investment Info.

Compare eCosystem Study

International Creative
Entrepreneur Academy

Fast Track Office

Boost IoT Startup eCosystem

Roadshow

Boost Investors eCosystem

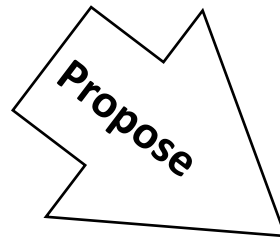
Transform SMEs to Creative
Entrepreneur

Smart City Invest Model

Boost Digital Workers eCosystem

Investment and management plan for Sustainable Phuket Smart City

Entrepreneur / Investor



Local community

PPP

Phuket

Investment

Collect
income

Management

Collect
income

Investment

Network | CCTV | Sensors | WiFi | Smart City Services

Investment and management plan for Sustainable Phuket Smart City

Entrepreneur / Investor

CAT or TOT



People

Hold shares

Establish

Hold shares

Business Unit
(Social Enterprise)

Local community

Outsource

Outsource

Phuket

Investment

Collect
income

Management

Collect
income

Investment

Network | CCTV | Sensors | WiFi | Smart City Services

Smart Tourism : Enjoyable Tour and Convenient Life

**Goal
2020**

Digitise Tourism (Attractions and Services)

Strategy

- Establish internet access infrastructure for tourists and citizens
- Supporting the construction of the platform and developing the Digital Contents for major tourist attractions
- Encourage travel operators to create Digital Services

Important project

Smart WiFi + Smart Growth

High Speed Public Free WiFi + Private to Public WiFi

Smart Tourism Application

Smart City Tourism Big Data (Tourist Behaviour, Foreigner DB)

Tourist SOS

New Project

Digital Guide

Digital Payment for Tourist

LoraWan for Tourism

Smart Health : One Patient Sigle ID

**Goal
2020**

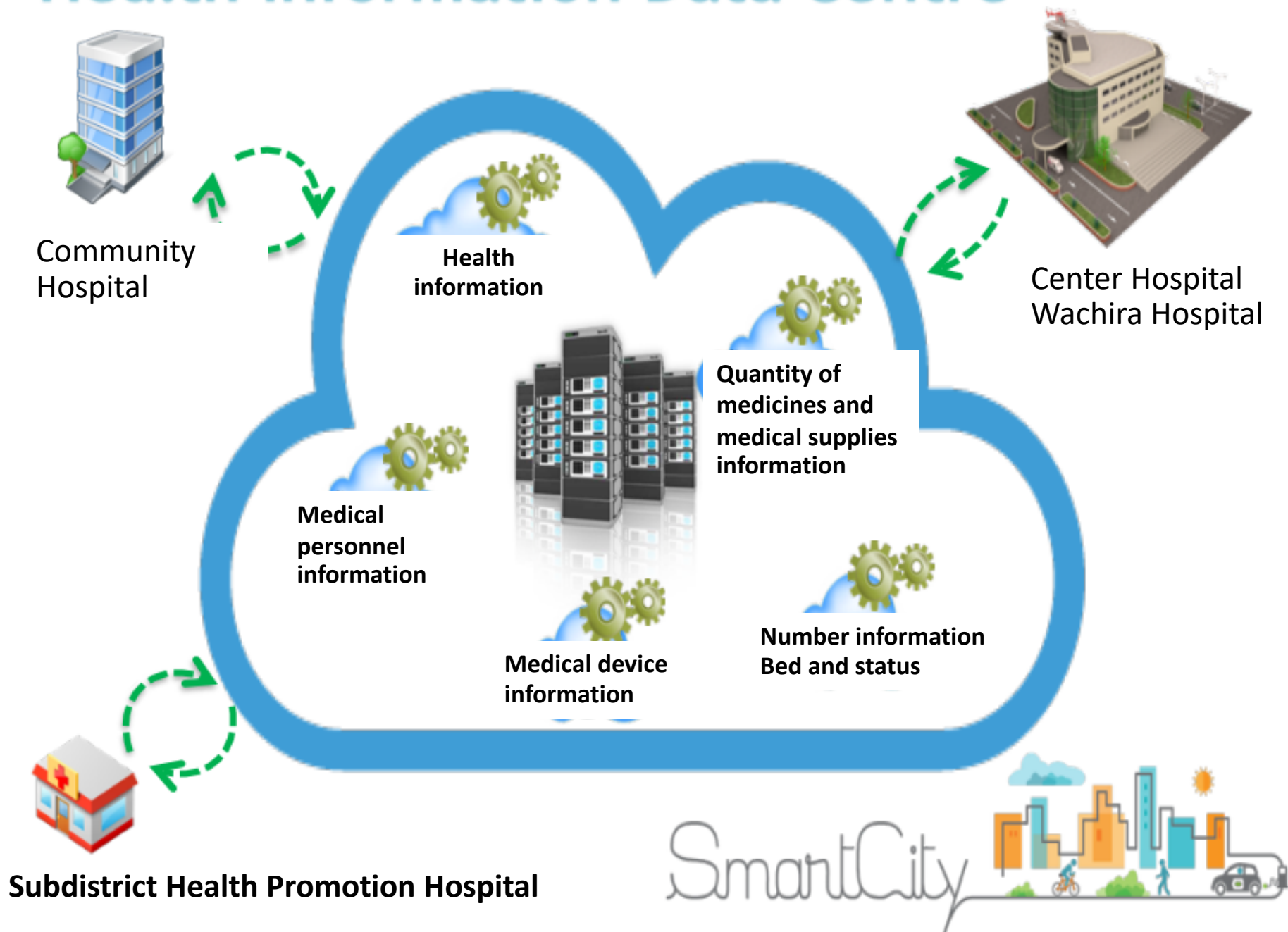
Digital Healthcare

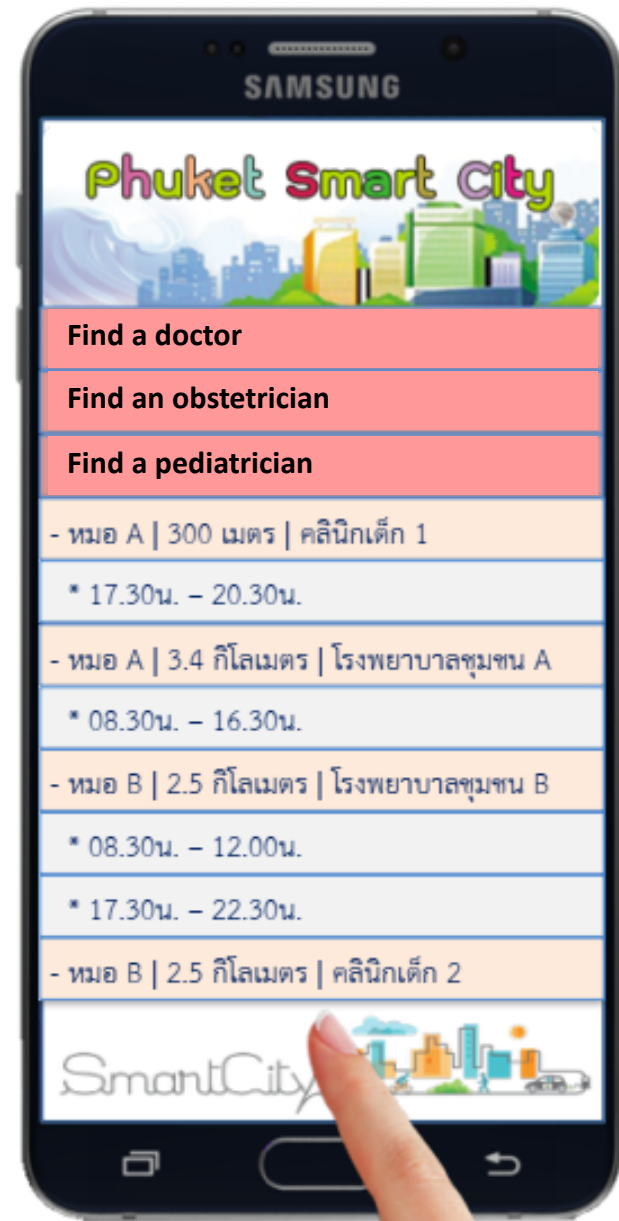
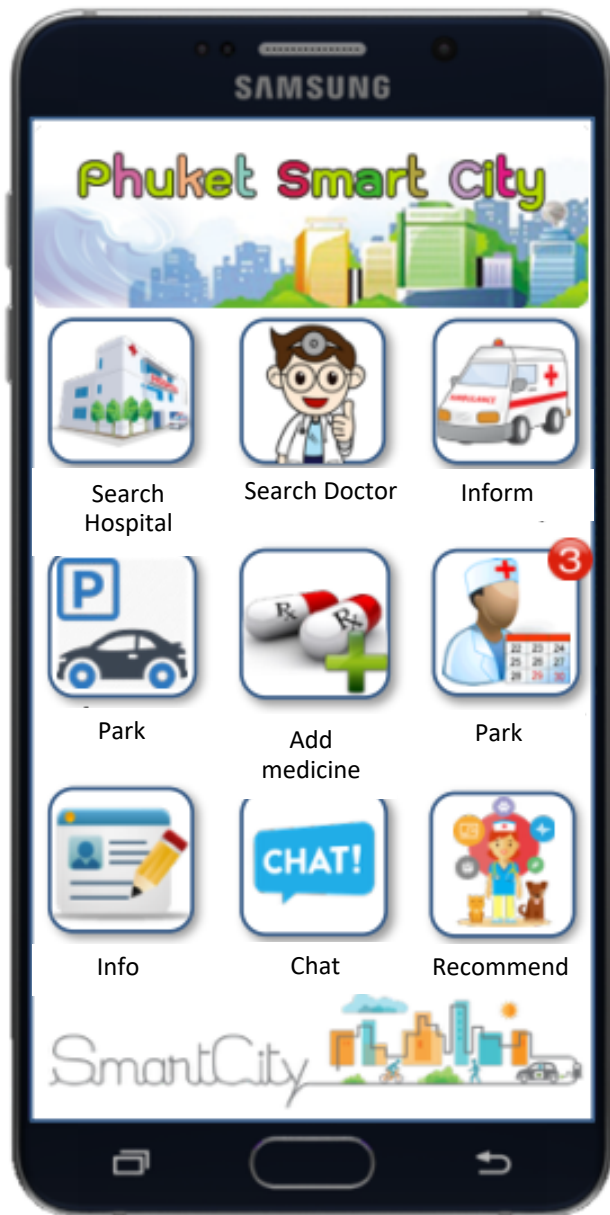
Strategy

- Connect database 8 hospitals
- Support the development of public health services via Smart Devices
- Support the development of intelligent hospital prototypes

	Important project	
	Smart Healthcare Information	
Connect hospital information 8 hospitals	Referral	Epidemic control map
	Smart Healthcare Services	
Develop medical services for patients via Smart Devices		
	Smart Hospital	
Improve the operation of Wachira Phuket Hospital to be completely digital.		

Health Information Data Centre





Smart Safety : Phuket Safe City

**Goal
2020**

Phuket Safe City

Strategy

- Develop Disaster Command Center, expand the number of CCTV cameras to 5000 cameras and Analytic applications to prevent crime, traffic and security.
- Development of marine safety

Important project

CCTV

Integrate CCTV

**Navigation using CCTV
Analytic**

**Establish Command Center (3
centers)**

**Establish Disaster Command
Center**

**Expand the number of
cameras according to CCTV
master plan**

**Investment plan and
management**

Phuket Smart Gateway

Traffic Law Enforcement

Maritime

Navigation Maritime Safety

Expand Maritime Safety



Smart City Development Project Phuket province

- Integration of existing **CCTV links** in Phuket and Image processing for aggressive crime prevention
- Development of **real time traffic reporting systems** and systems tell the time of the parking sign
- Using digital technology for narrowing traffic discipline
- Development of **intelligent command center**

Maritime Safety

- Check Passengers Information
- Tracking Passengers on board



Smart Environment : Phuket Green City

Goal
2020

Sustainable Environment for Tourism

Strategy

- Build a LoRaWAN (Long-Range Wide Area Network) network for IoT (Internet of things) Environment Sensors
- Reduce energy consumption (Carbon Footprint)
- Create real-time environmental awareness

Important project

IoT Environment Sensors

IoT Sensors Patong, Phuket Town

City of IoT Environment Sensors

Reservoir Monitoring

**LoraWan for IoT Environment
Sensors**

Smart Lighting

One Map Solution

IoT Envi Station Phuket Town



Smart Education : Smart Learning Community

**Goal
2020**

Smart Learning Community

Strategy

- Developing and preparing manpower to support Smart City development
- Build learning infrastructure outside the classroom

Important project

Manpower development

Development of infrastructure for learning



Smart Governance : Phuket Green City

**Goal
2020**

Smart and Sustainable City

Strategy

- Study investment methods to meet the needs of urban development
- Collect provincial information from all ministries to manage

Important project

City Investment Model

City Data Platform

Center for Intelligent City Management Integration

People Driven Smart City Project

Smart City World Congress 2020

Smart Economy Smart City Innovation Park



Smart Economy

Innovation Incubation Centre

GOAL

- Provide Fast Track Office for investment services
- Organizing the International Creative Entrepreneurship Program
- Co-Research on Smart City Projects
- IOT Smart City Lab and Learning Center
- Digital Entrepreneur working space

Floor 5 : Accommodation

Floor 4 : International Creative Entrepreneurship Academy

Floor 3 : Digital Entrepreneur Space

Floor 2 : SIPA Office, Smart City IOT Lab and Learning Centre

Floor 1 : Business Centre, Investment OSS, Software Demo Room



Business Centre ,Investment OSS



Smart City IOT Lab and Learning Centre



Digital Entrepreneur Space



International Creative Entrepreneurship Academy



Floor 4 International Creative Entrepreneurship Academy



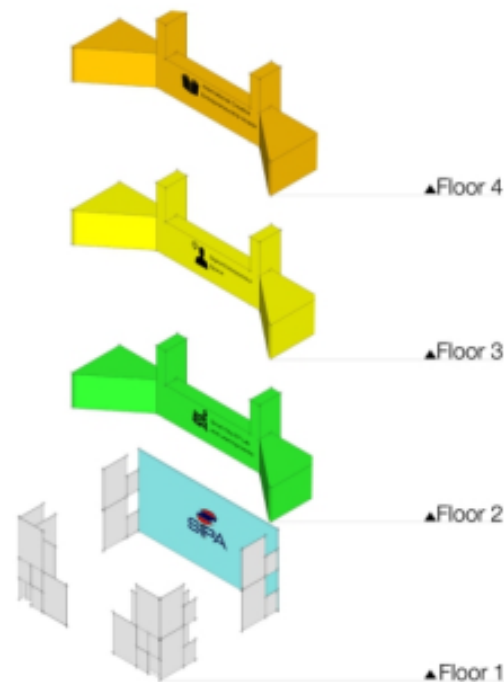
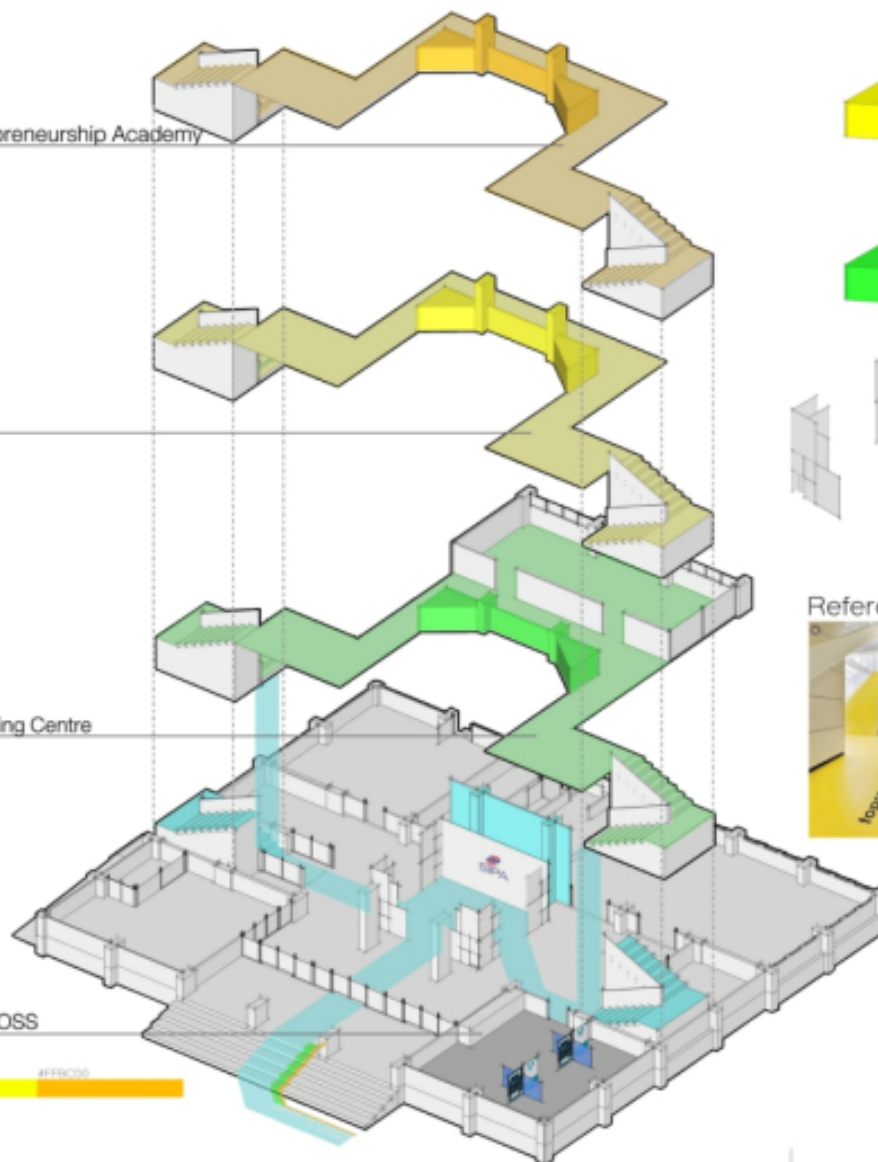
Floor 3 Digital Entrepreneur Space



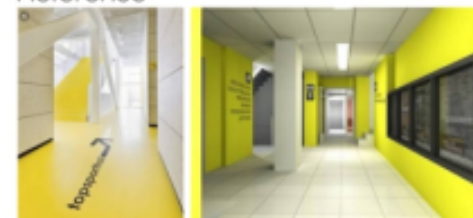
Floor 2 Smart City IOT Lab and Learning Centre



Floor 1 Business Centre ,Investment OSS



Reference





Perspective Floor 1 : Business Centre ,Investment OSS

The Centre of Creative & Innovation



Perspective Floor 1 : Business Centre



Perspective Floor 1 : IOT Lab and Learning Centre

Smart Living Community

Pilot Sites

Phuket City

Patong City

Investment & Maintenance Model

Build | Transfer | Lease

Build | Transfer | Operate

Services

High Speed Public Free WiFi

CCTV & IoT Environment Sensors

Smart Tourist Card

Maritime Safety



High Speed Public/Private Free WiFi (Smart WiFi)

Problems

- Free Wi-Fi is not available.
- Free Wi-Fi service provider is illegal
- Can not continue to use data
- Duplicate Free Wi-Fi investment

Pilot area

- Phuket Municipality
- Patong Municipality
- Important attractions

Cooperation



Solutions





Patong Municipal Office

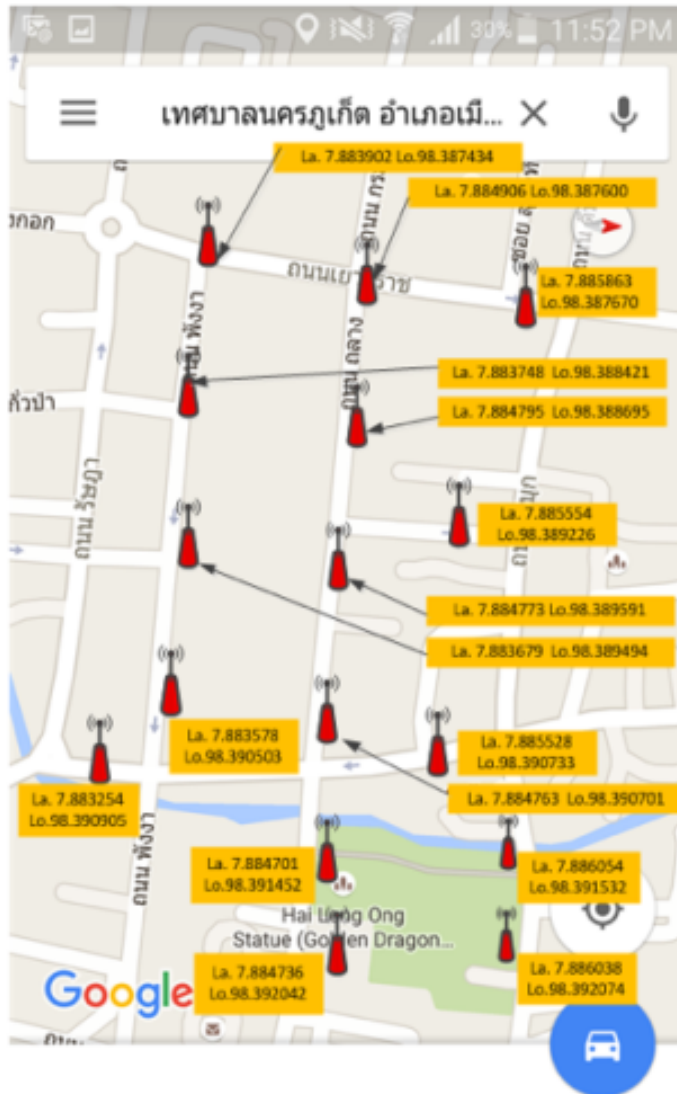
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Patong Beach Road



AP 250 Concurrent (out Door IP 67) มี ibeacon



Old Town, Thalang Road, Phang Nga Road



AP 250 Concurrent (out Door IP 67) มี i beacon

Phuket Municipality

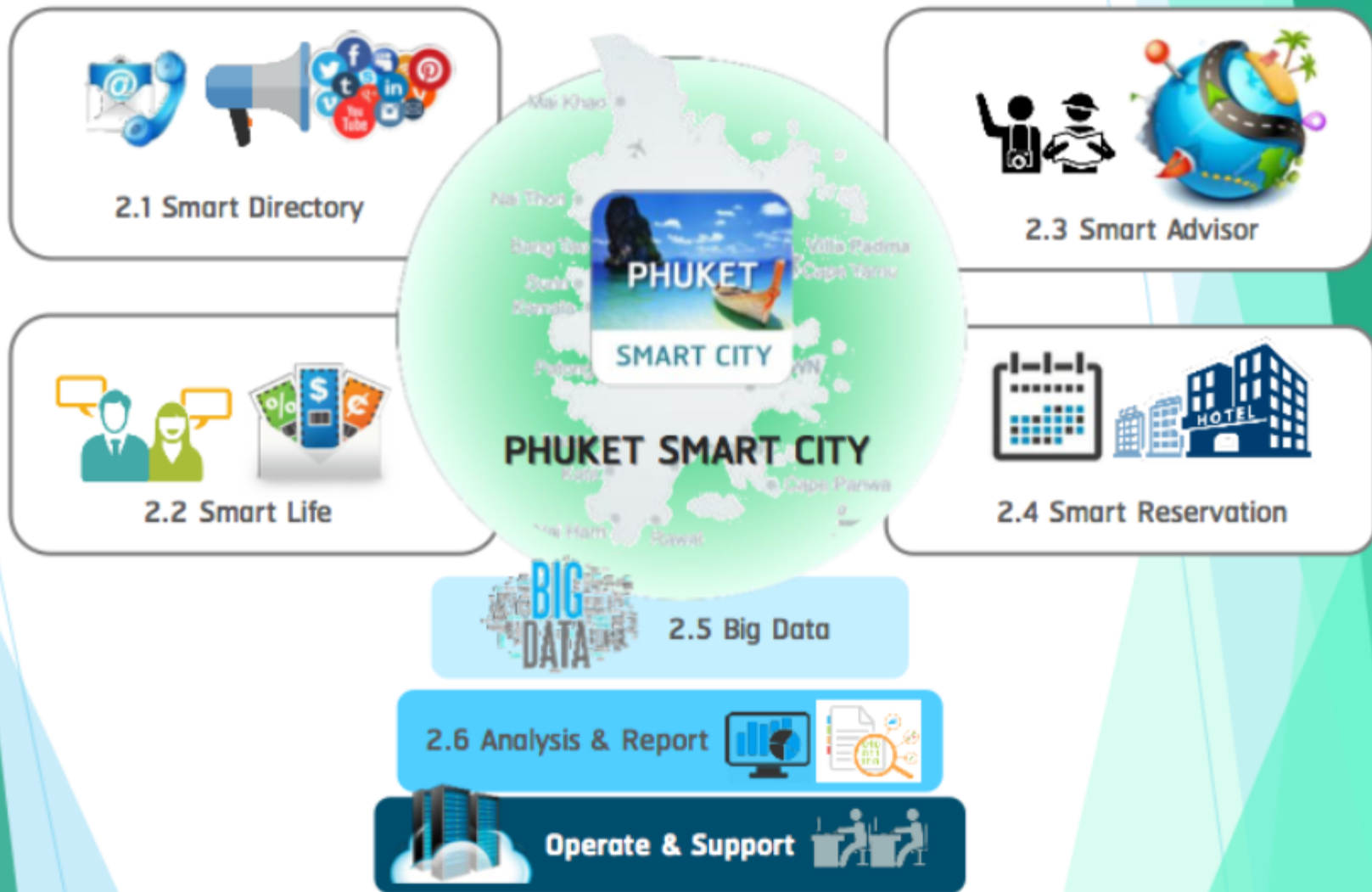
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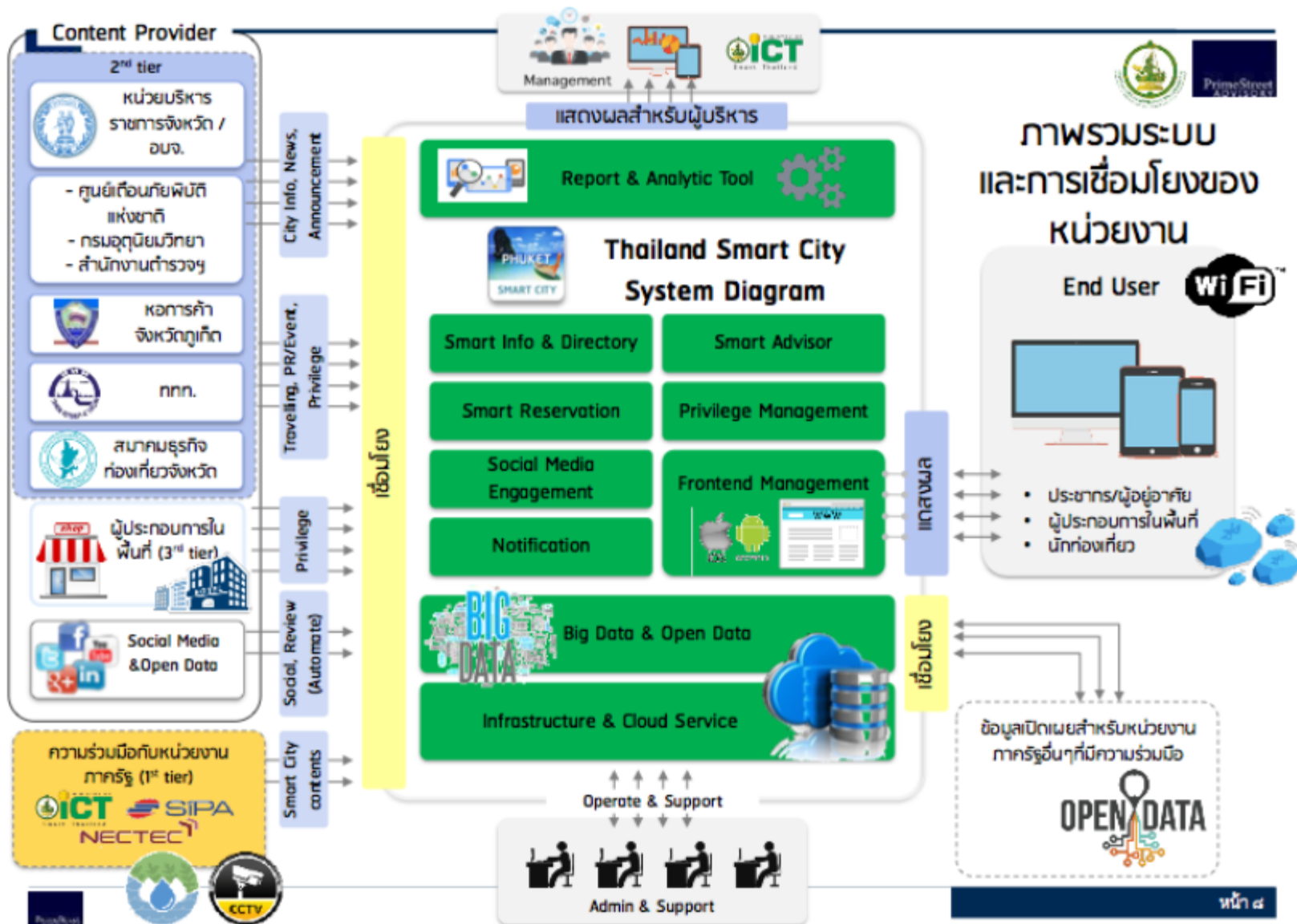


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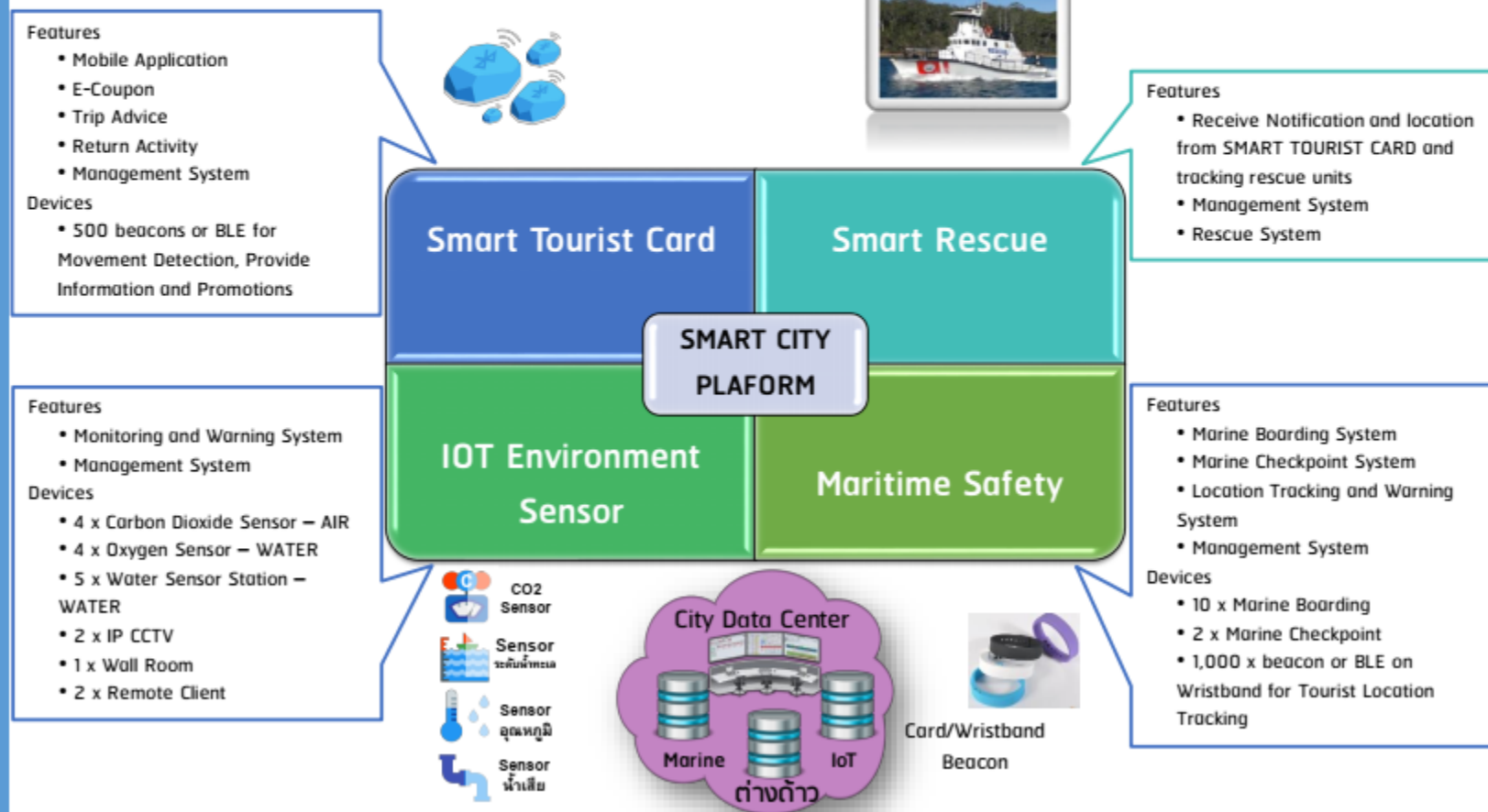


ภาพรวมฟังก์ชันของระบบ





Smart Living Community: Phuket Safe City & Smart Environment



THANK YOU



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