



# How do We Promote Taiwan's Open Data in the World



INDUSTRIAL DEVELOPMENT BUREAU,  
MINISTRY OF ECONOMIC AFFAIRS  
經濟部工業局

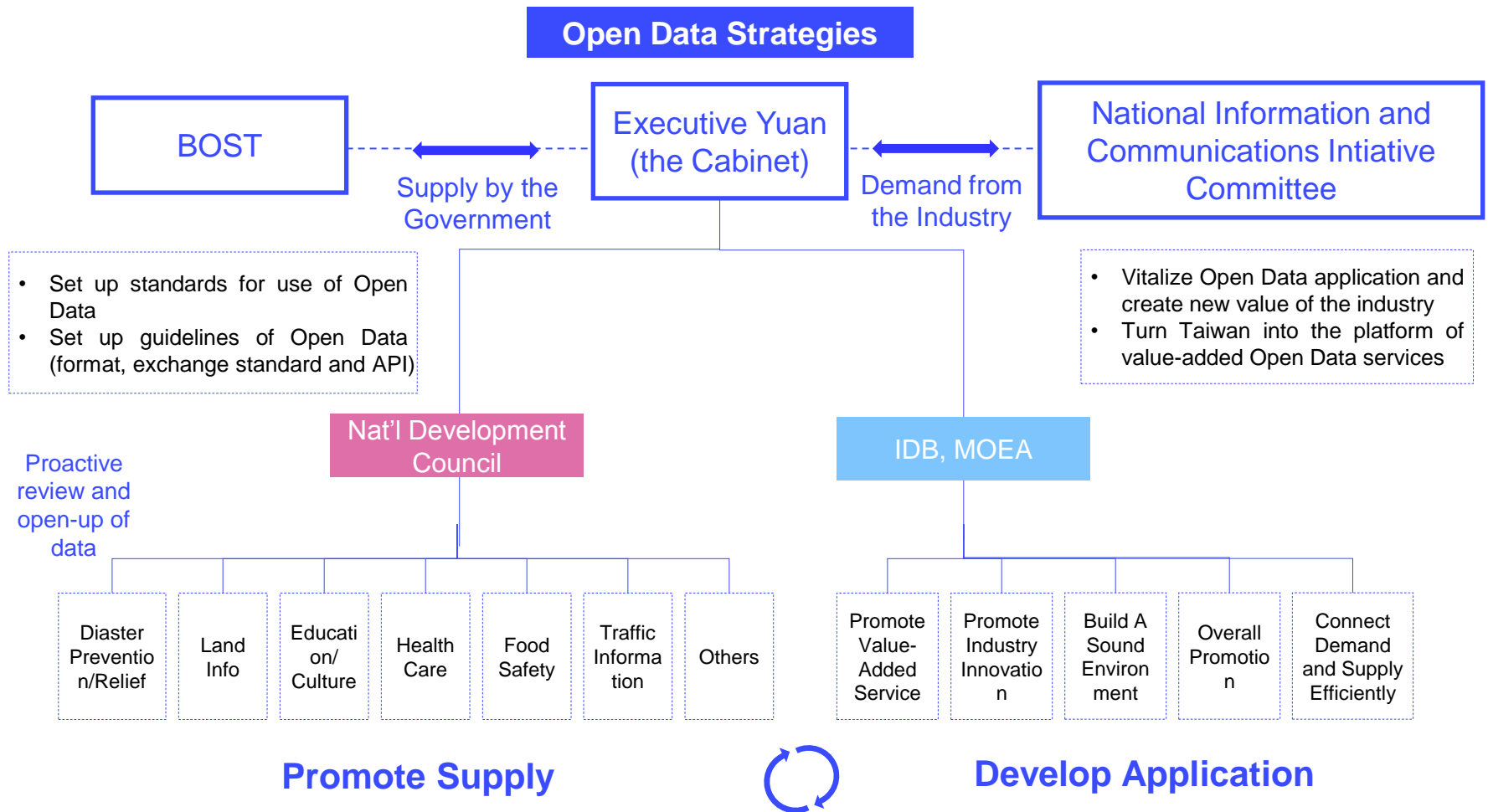
May, 2017

- ▲ Taiwan's promotion framework
- ▲ Taiwan's Open Data policy
- ▲ How does Industrial Development Bureau(IDB) of Ministry of Economic Affairs (MOEA) promote data release?
- ▲ Open Data promotion on the local level
- ▲ Private Open Data organizations in Taiwan
- ▲ Forging ahead - Open Data applications

# Taiwan's Promotion Framework

2012/11/8 Board of Science and Technology launched the Open Data promotion strategy, and passed by the cabinet meeting

- IDB: Promote Open Data application in the industry
- National Development Council: Set up operation standards and guidelines in Taiwan



# Taiwan's Open Data Policy (1/3)

2013

Guideline for the Cabinet and Affiliated Agencies for Data Release was launched on **February 23**. Management Guideline for Open Government Data was launched on **March 1**.

data.gov.tw (beta) platform was launched in **April**.

Open Data Alliance (ODA) comprising industry players was launched on **September 14**.

Data from all government bodies were reviewed and a total of 50 kinds of data marts were released by **December**.

Open Data Application Promotion Project was launched by IDB on **November 18**.

# Taiwan's Open Data Policy (2/3)

2014

Articles for Open Government Data Authorization was announced on **July 24**

Instructions for Open Government Data classification and authorization rates were announced on **November 24**

Open Data Innovation Competition was held on **March 31**, attracting 374 entries

The very first International Open Data Forum was held on **October 24**

Data in specific fields were opened due to market needs, including e-tag, medical services and e-commerce

2015

The resolution of cabinet meeting to request local governments to set up Open Data strategies on **February 5**

Guidelines to set up Open Government Data Advisory Committee were announced on **April 7**

The first Taiwan – Thailand Open Data Hackathon went from **October 3 to 4**

Asia Open Data Partnership was launched on **October 14**

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**No. 1, Global Open Data Index, OKFN announced on **December****

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# Taiwan's Open Data Policy (3/3)

2016

Accelerate local government open data action plans on **August 8**

**Asia Open Data Partnership, AODP** gave a joint presentation at the most important Open Data platform - Open Data Conference (IODC) on **October 6**

Data exchanges: 409 requests collected from **2014~2016** and 183 datasets have been opened up

Help launch a total of 939 Open Data innovative projects from 2014 to 2016, including **141 innovative services**(from schools, individuals and startups); **19 startups have been established**

Help **53 companies to use Open Data to develop innovative products, services and commercial applications**

Digi+ policy launched on **November 24, 2016** to foster public and private cooperation in opening up government data, develop value-added applications and integrate resources from government, industry and private sector to enhance diverse digital economy, digital governance and international coordination

A total of 27,232 items gathered on data.gov.tw on **May 4, 2017**

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**No. 1, Open Knowledge International (OKI) Global Ranking**

# How does IDB promote data release?

- Raise awareness for both the public and government bodies
- Help reflect what private sectors need to competent government bodies
- Encourage private companies to use data released by government
- Hold competitions to discover innovative applications
- Research on how other countries promote Open Data and where Taiwan's industry is at right now



Japan Tourism Info Platform – Puzhi Info

Mix and match foreign open data, including 10 datasets from Japan (up to 55,000 items) and recognized by the Japan Tourism Industry Association, Tottori Tourism Bureau and Osaka city government for cooperation, including a NT\$1 million partnering project



Hackathon Team Easytricity

How to best manage info of big power users in the time of energy crisis in Taiwan? This is an interactive webpage featuring district power use patterns and demographic info shown in a visualized way that helps government to distinguish big power users, understand use patterns and come up with better management strategies

# Open Data Promotion on the Local Level

- Provide professional consultation and establish interoperable datasets



◆ Consultation Sheet

◆ FAQ (updated on a regular basis)

- The industry and local governments work on exemplary cases

- Foster local governments to release more open data for more services available in the industry

Explore local governments' needs and specialties



Help local governments and the industry to develop services together



Establish a service and operation model



## Questions raised by local governments to be handled with the help of the industry



- Encourage people to maximize creativity
- Foster data quality provided by local governments



# Private Open Data organizations in Taiwan

## Open Data Alliance (ODA)



More than 400 members comprising representatives of enterprises, government and private organizations

Mission: make suggestions to government and promote Open Data literacy and industry applications

g0v

One of the top 3 hackers communities in the world

Mission: promote data transparency and develop social engagement platforms and tools for the public



## Data Science in Taiwan Conference



Grand event in data science, attracting more than 1,000 attendees every year

Mission: enhance understanding, technology and applications of data science

# Forging ahead- Open Data applications



**Thank You for  
Your Attention**

# Case Studies

# Combine New Technology and Open Data to Enhance Disaster Inspection Skills and Accelerate Farm Rehabilitation

## (Bureau of Agriculture/ Environmental Management Consultants Technologies)

### Problems/Needs of Bureau of Agriculture, Tainan City Government

- It takes a long time for government inspection, resulting in lower productivity and in need of farm rehabilitation in a short time
- Not enough inspection staffing for excessive cases and in imminent need of new disaster inspection technology

### Objectives

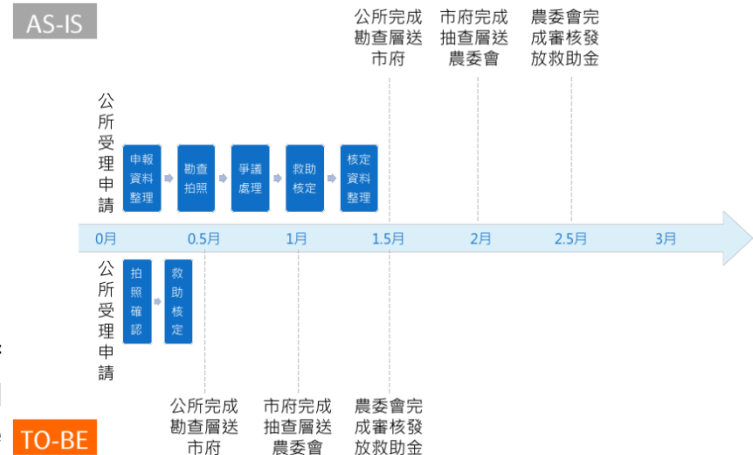
- Build a whole new operation procedure that safeguard evidence and accelerate farm rehabilitation
- Utilize new tools to enhance inspection efficiency and reduce workload of the staff

## Solutions

Set up a multi-layer agricultural disaster database that integrates information from different sources, such as satellite/aerial images and UAV to show images before/after the disaster

Set up the analysis model for crops before/after the disaster, including automated analysis model to measure before-disaster crop distribution and after-disaster losses, reducing HR costs while enhancing inspection efficiency and correction rate

Develop supportive mobile tools for inspection: information of farmers, land registry and crops can be integrated to save time and enhance inspection efficiency, helping the bureau to supervise the progress in different districts in real time



# Recreational Fishing and Tourism Service Development Project of Keelung City

(Department of Economic Affairs, Keelung City Government/Fontrip)

## Problems and Needs of Keelung Government

- Despite the increase of cruise ship travelers, 70% of them go straight to Taipei. It is hoped to keep them in Keelung and foster local economy
- Not yet an integrated marketing platform for the emerging fishing/entertainment industry
- The focus should be on both fostering rock fishing development just allowed by the law and protection of marine ecology

## Objectives

- Keelung local tourism services(targeting local and foreign cruise ship travelers) and the rock fishing app have been developed that incorporate information of tourist sites and services, as well as participation of local travel agencies (for pre-ordered guests or the ones picked up locally)

## Solutions

Destination travel services that integrate local itinerary to provide cruise ship/commercial fishing boat travelers to make online searching, booking and payment

Rock fishing app provides fishing info and helps build a platform for fishing boat info and ordering, forming a social network of fishing goers, and could also be used to analyze the relationship between fishing goers and marine resources

### AS-IS

#### Search Purchase

- ① Limited choices of contracted travel agencies
- ② Uncertain quality from direct recruitment of drivers

#### Planning Report

- ① Check on peers' reviews
- ② Fishing gain to be reported by person

### TO-BE

- ① Integrated local itinerary
- ② Online booking/payment and guided by the travel agency upon arrival

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- ① Able to check weather/marine forecast and fish distribution info
  - ② Share info through social media and give feedback by smart phone