e-Government and Open Government Data In Japan

Kenji Hiramoto  Executive adviser for CIO, Ministry of Economy, Trade and Industry   Feb, 2013
E-GOVERNMENT IN JAPAN
Basic Act for IT

Basic Act on the Formation of an Advanced Information and Telecommunications Network Society (Jan 2001)

Principles

• Realization of a Society that Allows Every Citizen to Reap the Benefits of Information and Telecommunications Technologies

• Promotion of Economic Structural Reforms and Reinforcement of International Industrial Competitiveness

• Realizing Comfortable and Affluent Lifestyles for Citizens
Transition of Japanese IT Strategy

- **E-Japan Strategy (January 2001)**
  - Construction of broadband infrastructure
  - Emphasis on IT utilization

- **E-Japan Strategy II (July 2003)**
  - Emphasis on IT utilization

- **New IT Reform Strategy (January 2006)**
  - Driving forward the IT structural revolution

- **i-Japan Strategy 2015 (July 2009)**
  - The benefits of digital technologies for all

**From infrastructure to utilization**

**Realizing a human-centered digital society**

**E-Japan Strategy (January 2001)**

- Achieve an IT country on the cutting edge of the world by 2005

**E-Japan Strategy II (July 2003)**

- Achieve a society where anyone, can feel the benefits of IT anytime and anywhere in 2010

**New IT Reform Strategy (January 2006)**

- Strive to create a citizen-driven reassuring & vibrant digital society

**A New Strategy in Information and Communications Technology (IT) (May 2010)**

- Establishment of a new society where the citizens hold sovereignty

**i-Japan Strategy 2015 (July 2009)**

- Achieve transition to a citizen-driven society and a true knowledge-information society
Overview of Japanese Government Information Systems

【Total Cost of Government Systems】
- Total Cost of Government Systems (rough estimation):
  - around 528 billion Yen (FY2012 Budget)
  - Operation Cost: 422 billion Yen
  - Development Cost: 106 billion Yen

【Total Number of Government Systems】
- around 1500 systems (central government systems only)
The Government Portal Site “e-Gov”

The e-Application System has been operated at the Government Portal Site “e-Gov” enabling to accept multiple administrative procedures such as applications and reports at the single gateway through Internet.

- The e-Application Systems in ministries have been integrated to “e-Gov” for one-stop services. Some systems which are not integrated yet are scheduled to be consolidated into “e-Gov” sequentially.
- The “e-Government Customer Support Centre” is opened to deal with various inquiries on how to use “e-Gov”.

Guide for how to use “e-Gov” in easy-to-understand

Support of utilization of e-Government

Web sites of government ministries

How can I process an e-application?

Kasumigaseki WAN

Electronic application

Submit multiple applications at once

Guide

Web Search

I want to establish a new company. How can I do?

I want to collect information from various sources. It’s time consuming to visit and search many different Web sites.
Projects

Kasumigaseki Cloud
(The Government Shared Platform System)
- Government Platform of Information Systems’ will enable various ministries to collaborate to integrate and consolidate hardware and create platforms for shared functions.

Citizen Identification (ID) system & Corporation Identification (ID) system
- Developing a citizen identification (ID) system and a system to allow individuals to monitor the administration’s use of their own personal data.
- Developing a corporation identification (ID) system
Local government

- Cooperation between the central and local governments.
  - There are some cloud services.
Organization for Promoting e-Government

IT Strategic Headquarters
- Established Jan. 2001

Planning Board
- Established Mar. 2010

CIOs Council
- Established Sep. 2002

Committees

Government CIO and the team
Aug 10, 2012
Information Security Policy Council, National Information Security Center (NISC)

- Based on “Review of the Role and Functions of the Government in terms of Measures to Address Information Security Issues (decided by the IT Strategic Headquarters on December 7, 2004),” the government is developing essential functions and frameworks toward strengthening its core functions to address information security issues.

- National Information Security Center (NISC) has been established since April 25, 2005
- Information Security Policy Council (ISPC) has been established under the IT Strategic Headquarters since May 30, 2005

(1) Formulate basic strategies for information security measures

(2) Promote comprehensive measures taken by central governments

(3) Help central each government agency deal with individual incidents

(4) Information security measures for critical infrastructures

Central government agencies concerning information security:

- Ministry of Public Agency
- Ministry of Networks
- Ministry of Information and Industry
- Ministry of Land, Infrastructure, Transportation, and Tourism
- Ministry of Health, Labor, and Welfare
- Ministry of Agriculture, Forestry, and Fisheries

Agencies overseeing critical infrastructure:

- Financial Services Agency
- Ministry of Land, Infrastructure, Transportation, and Tourism
- Ministry of Information and Industry
- Ministry of Health, Labor, and Welfare
- Ministry of Agriculture, Forestry, and Fisheries

- Centralize of information exchange and cooperate with foreign countries
- Make International confidence-building

Gather experts from the public and private sectors

*NISC is in Cabinet Secretariat*
OPEN GOVERNMENT IN JAPAN
Open Government Lab.

- Open Government Lab is the experimental website to examine measures regarding open government specifically. By centralizing initiatives promoting open government including “idea box” which is interactive website opened to gather idea from people, “databox” which publishes public data, and “wiki”, the website contributes to promote increased access to information about government activities as well as centralize the accumulated know-how. The website recorded 140,000 page views (PV) until the end of December 2011.

- In addition, the Open Government Lab team provides suggestion and consultation for public agencies seeking for initiatives to enhance open government.
  
  - For example, saving electricity website “setsuden.go.jp” was launched under our consultation in response to tighter electricity supply-demand balance due to the nuclear power situations.
Services in the lab.

- Discussion Board
- Data portal
- Open Government Lab.
- Wiki
- Portal of Public twitter
- Text Analysis

[Images of various software interfaces related to the services mentioned.]
Participation

- Calling for public opinions

**METI**

METI: Ministry of Economy, Trade, and Industry

**METEXT**

MEXT: Ministry of Education, Culture, Sports, Science and Technology

**JTA**

JTA: Japan Travel Agency

**METI & JTA**

**Government Revitalization Unit**
Information Analysis

- To find citizen's needs.
- To maximize value of opinions

MindMap
TextMining
OPEN GOVERNMENT DATA STRATEGY

July 4, 2012
IT Strategic Headquarters, Japan
(Director-General: The Prime Minister)
The significance and objectives of promoting the use of public data are set forth below:

1. Enhance Transparency and Confidence
   - Raise the transparency of government
   - Build confidence in government by the public

2. Promote Participation by the Public and Collaboration between the Public and Private Sectors
   - Rapidly and efficiently provide public services that make use of creative innovations
   - Respond to the diversification of needs and values.

3. Economic Stimulus and Higher Efficiency in Government
   - Provide stimulus to the entire economy of Japan
   - Increase the efficiency of advance operations by the national and local governments
II. Basic Direction

1. Fundamental Principles

The fundamental principles concerning measures for promoting the use of public sector information in Japan are set forth in (1) through (4) below:

(1) Government shall actively release public data.
(2) Public data shall be released in machine-readable formats.
(3) The use of public information shall be encouraged whether for commercial or non-commercial purposes.
(4) Specific measures shall be taken such as the prompt disclosure of public data that can be released and results shall be steadily accumulated.

2. Public Data Subject to Measures

Measures will be taken first with respect to data in the possession of the government (excluding information not suitable for public release such as information relating to security), and the measures will be expanded to independent administrative institutions, local governmental bodies, public utilities, and so on.

3. Collaboration with the Private Sector and Local Governmental Bodies

From the perspective of encouraging the use of public data through various means that take advantage of creative innovations, the government will collaborate fully with the private sector and local governmental bodies.
III. Specific Measures

1. Promoting the Use of Public Data
   ➢ The MIC and the METI will implement trial programs as set forth in (1) through (3) in collaboration with government ministries, independent administrative institutions, local governmental bodies, and the private sector.

(1) Identification of Public Data Use Needs
   By conducting investigations in collaboration with the private sector and holding service development contests and so on, public data use needs will be investigated and analyzed and issues concerning current use will be examined and organized.

(2) Examination and Organization of Issues Relating to Current Data Provision Methods
   Issues will be examined and organized through trial projects, surveys, and research in order to create the rules necessary for the use of the public, develop data catalogs, and promote standardization of data formats and structures.

(3) Development of Private Sector Services
   By conducting investigations in collaboration with the private sector and holding service development contests and so on, examples of service development by the private sector using public data will be accumulated.
### III. Specific Measures

#### 2. Development of Environments for the Use of Public Data

- The Cabinet Secretariat will obtain the cooperation of relevant ministries and develop the following environments for the use of public data.

<table>
<thead>
<tr>
<th>(1) Creation of Rules Necessary for the Use of Public Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rules necessary for the use of public data will be created with respect to the handling of copyrights at the time of disclosure of data by government ministries, use conditions, rules on access from machines, allocation of responsibilities between users and providers, and handling of confidential information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(2) Development of Data Catalogs</th>
</tr>
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<tbody>
<tr>
<td>Data catalogs that collect metadata including summaries and data formats will be developed with respect to data that is available for secondary use.</td>
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<table>
<thead>
<tr>
<th>(3) Promotion of Standardization of Data Formats and Structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardization concerning data formats and structures and methods of prevention will be promoted and manuals and support tools will be developed to enable machine reading and collaboration and searches among multiple agencies and fields.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(4) Investigation of Support to Provider Agencies</th>
</tr>
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<tbody>
<tr>
<td>Investigation and organization of the issues concerning reviews of operational procedures suitable for the provision of public data by provider agencies and fees relating to the provision of public data and of feasible policies will be conducted from the perspective of providing support to agencies that provide public data.</td>
</tr>
</tbody>
</table>
IV. Implementation Structures

Implementation Structures:

- The Cabinet Secretariat established a committee of open government data from the public and private sectors as the body for implementing open data policies.

1. Investigation of fundamental matters including the development of environments for the use of public data;
2. Investigation of policies to be implemented in the future and adoption of a roadmap;
3. Review and follow-up on policies.

Committee of open government data (Cabinet secretariat)

- IT Fusion Forum - Public data wg. (METI)
- Open data promotion consortium (Sponsored by MIC)

METI: Ministry of Economy, Trade and Industry
MIC: Ministry of Internal Affairs and Communications
OPEN DATA HISTORY & DIRECTION
Time series

Project

2009.10 ideabox (bulletin board for discussion)
2010.9 databox (Statistics open data, API)
2011.7 Energy conservation project (open data, API)
2011.10 Japanese character set (open data, API)
2012.1 Recovery and Reconstruction Support Program Database (open data, API)
2013.1 Open Data METI Site (Data catalogue) http://datameti.go.jp

Strategy

2008
2009
2010
2011
2012
2013

2008.10 Public CIO Forum Started discussion
2009.3 Open government project was unveiled
2010.7 open government Lab. was opened
2010.5 New IT Strategy
2011.3 Principal for promoting eGovernment
2012.7 Open government data strategy
2012.7 Strategy for the Rebirth of Japan
Creation of “Leading-Edge Integrated Industries”

- The Integration of IT/Data and the Existing Industries is Important.
- New business created by the integration of IT & data and existing industries.
- New business created by the integration of different industries through IT & data.

New Business using IT & data

- New Business created by the integration of IT and existing industries
- Real world data is added, the amount of data increase drastically
- Expanding into various industries and business

- Narrow IT Industry
- New Industries created by the integration of different industries through IT and data
  - Energy×Automobiles×Transportation System
  - Healthcare×Agriculture
  - Robots×Retail×City Planning
Open data and architecture

Marketing view point

Value Chain

Collect
Receive

Analyze
Use

Open data
Publish

EA
( Architecture )
Store

Information Sharing Environment

Interoperability

Citizens, Enterprises, NPOs

Smooth information flow

Maximize value of information

Vocabulary
Message set
Rule etc.
Data catalogue in Japan

- METI launch a data catalogue site.
  - This site based on CKAN
  - There are over 70 data-set from METI
Open Data Ideabox

- Citizens send and discuss their opinion on this site.
E-GOV BEST PRACTICES
In collaboration with the Saitama prefecture, Honda has devised a way to use Internavi data to detect spots where hard braking frequently occurs.

Historically, road safety measures have been directed only at places with a high incidence of collisions, while disregarding locations with a lower incidence of collision yet potentially dangerous. Data gathered from Internavi’s “Floating Car Data” service not only help locate potentially dangerous spots, but also provide a comparison basis to quantify the effect of each measure.

This intelligent use of Internavi data is now being expanded beyond Saitama prefecture. Data gathered in this way are also used in efforts to reduce traffic jams and in road planning to help improve the overall traffic environment.
“Pension-Net” provides payment records and benefit estimates for each citizen.

- Customized service for Japanese citizens
- All Japanese citizens over 20 years old are covered (appx. 106 million)
- Provide the benefit estimate, based on the payments in the past
- Provide the payment record to each citizen
- More Transparency in Pension System

Source: http://www.nenkin.go.jp
Provision of medical payment data

With its universal coverage of Health Insurance, Japanese government provides “big data” of medical payment records for academic purpose upon request.

- Almost all residents are covered (approx. 113 million)
- Provide Big Data for academic research and policy-making (open data)
- Contribute to Evidence-Based Policy in public health

Open data Request

Potential Users

- MHLW and Related authorities
- Local governments
- Academic institutions

Purpose

- Making evidence-based policy to improve quality of medical service

Approval

- MHLW Advisory Committee
- Minister’s approval

Review of policy
- Academic research

Sources:
- “Summary of Health care system” (医療制度の概要) MHLW, data for 2010
  - http://www.mhlw.go.jp/seisakunitsuite/bunya/kenkou_riyou/riyouhoken/reseputo/info.html#anchor05

Source data: Public sector
Service provider: Public sector
Service user: Public sector
Bridge Monitoring System

Based on the sensor network and Business Intelligence, Bridge Monitoring System detects strain of the bridge and constantly assesses its structural health of bridges. The system is developed and maintained through public-private collaboration.

- Application of Real-time Business Intelligence
- Help maintenance of public infrastructure by monitoring
- Detect the weight of vehicles by picking up strain

Source data: Public sector
Service provider: Public sector
Service user: Public sector

Source: http://www.nttdata.com/jp/ja/lineup/brimos/
Information Analysis

- To maximize value of opinions

1500 Tweets that include the word ”Battery”

TextMining

3/14 11:30

Mobile phone | Size | AAAA | A | Light | Battery

Main issue
- Lack of batteries
- idea to use different size battery
- How to charge mobile phone

Main issue
- Batteries
- Food
- Toilet

3/16 11:45

Rice | Bread | Fuel | Toilet

Goods | Light | Radio | Battery

Source data: Twitter
Service user: Public sector

The guide for Information Analysis

国民の意見を活かしていますか
～行政機関における情報分析ツール活用ガイド～

Public consultation
Questionnaire
SNS
“Shorting items” daily ranking

- Extract “what is really needed in the devastated area”
- Demand for “Information” ranked high along with electricity, food and drinking water.

### Source data: Twitter

<table>
<thead>
<tr>
<th>Number</th>
<th>Service user: Public sector</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Electric power</td>
</tr>
<tr>
<td>2</td>
<td>Information</td>
</tr>
<tr>
<td>3</td>
<td>Goods</td>
</tr>
<tr>
<td>4</td>
<td>Goods</td>
</tr>
<tr>
<td>5</td>
<td>TV</td>
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<tr>
<td>6</td>
<td>News</td>
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<tr>
<td>7</td>
<td>Lighting</td>
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<td>8</td>
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<tr>
<td>11</td>
<td>Blood</td>
</tr>
<tr>
<td>12</td>
<td>Power supply</td>
</tr>
<tr>
<td>13</td>
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<td>14</td>
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<td>15</td>
<td>Shop</td>
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<tr>
<td>16</td>
<td>Exercise</td>
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<tr>
<td>17</td>
<td>Gasoline</td>
</tr>
<tr>
<td>18</td>
<td>Place</td>
</tr>
<tr>
<td>19</td>
<td>Flashlight</td>
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<tr>
<td>20</td>
<td>Mobile phone</td>
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</table>

### Table: Daily ranking

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### Notes:
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- Information
- Goods
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- News
- Lighting
- Machine
- Shelter
- Water
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- Hospital
- Rescue Team
- Shop
- Exercise
- Gasoline
- Place
- Flashlight
- Mobile phone
OPEN DATA BEST PRACTICES
The Portal Site of Official Statistics of Japan, e-Stat (the "Site"), launched on 1st April 2008, delivers the one-stop service for official statistics of the Japanese government, which is pursuant to "the Optimization Plan of Business Processes and Systems of Statistical Surveys and related work" (Ministries CIO Council decision, 31 March 2006). Under the Optimization Plan, which is promoted by the Statistics Bureau, Ministry of Internal Affairs and Communications with collaboration of Ministries and Agencies, the Site aims to gather information from statistical departments of Ministries and Agencies, and provides general public with statistical data, schedule of release, etc.

The Site is managed and maintained by the National Statistics Center.
VICS: Real time traffic information

- VICS (Vehicle Information and Communication System) provides real-time traffic data to car-navigation system to help each driver. The service is provided through public-private collaboration.

VICS Center (Vehicle Information & Communication System)

- Creates Intelligent Transport Systems based on digital road map
- Transmit real-time traffic information for 24 hours, 365 days
- 35 million car navigation systems are in use as of 2012 (cumulative)

Source data: Public sector
Service provider: Public sector
Service user: Citizen

- Provide real-time traffic information
- Transmit data from center to car-navigation system of each car
- Serve to 35 million users
- Include various data such as parking lot vacancy
- Long time stable service since 1996

Sources: http://www.drm.jp/english/drm/map/index.html
http://www.vics.or.jp/about/history.html
ITS Japan provides traffic and road closure information provided by GIA (Geospatial Information Authority) and following four private films:

- Honda, Toyota, Nissan, Pioneer

Mapion and Isuzu provide truck traffic information.

Traffic and road closure information

- Blue points are traffic information.
- Red points are road closure points.

Truck traffic information

- Blue points are traffic information of big trucks.
- Green points are traffic information of small trucks.

Source data: Private sector
Service provider: Private sector
Service user: Citizen & Public sector

http://www.its-jp.org/saigai/
http://www.mapion.co.jp/feature/eq2011/traffic.html
Earthquake early-warning system

- Japan has the world’s most advanced earthquake early-warning system.
- Brief advanced warnings to the public. (approx 80 seconds in advance)
  - TV
  - Internet
  - Text message
  - Mobile phone

Smart phone app “Yurekuru”
Smart phone application with earthquake early-warning system.

Source data: Public sector
Service provider: Private sector
Service user: Citizen

https://itunes.apple.com/jp/app/yurekurukoru/id398954883?mt=8

Big earthquake will occur after 10 sec at Tokyo area.
Support civic participation in energy conservation after the earthquake

- CAO and METI provide information & service for energy conservation.

Portal site: [http://setsuden.go.jp/](http://setsuden.go.jp/)

Data from TEPCO

Source data: Private sector
Service provider: Public sector
Service user: Citizen

- Recognition of electricity use in previous year
- Declaration of household electricity saving
- Graph which shows Use of Electric Power (within TEPCO Service Area)
- Applications which provide information regarding the tight electricity supply-demand balance
- the participation prizes and achievement prizes

Group function
Electricity saving menu
Public appeal for greater public engagement in energy conservation

- METI (IT Project Office) made a public appeal on its Twitter account for an application that transmit current energy usage data from TEPCO.

- A great number of very imaginative applications were developed and considerable was gathered.

- Over 50 applications

Examples of the applications:

Signage
Recovery and Reconstruction Support Program Database

- A one-stop service site where users can search through a wide variety of support programs operated by the central and local governments.
- API to allow the use of support program information by external services is provided.
- Currently, a number of relevant services using such API is available.

Using API

- edit & process the raw data to create user-friendly website (e.g.: the website in which data selected by area)
- reuse the raw data on Twitter
- smart phone app.

Using website

- Providing Support Program Information

Source data: Public sector
Service provider: Public sector
Service user: Citizen

Government Ministries

Local Governments

Standardized format

Consultation Desk

Users (Earthquake victims
Using private services

Recovery and Reconstruction Support Program Database
NPO “ASKOE” collects the information on support programs provided in government websites and combines the public data with the information provided by industry.

They provide one-stop service to citizens where they can search thorough the support programs.

**Recovery and Reconstruction Support Program Database**

(http://www.r-assistance.go.jp/)

- **Consultation**
- **Search**
- **API**

Source data: Public sector
Service provider: Private sector
Service user: Citizen

http://www.fsnavi.jp/
Book search service “Calil”

- Citizen can search through the books across 5,200 libraries in Japan.
- Using this service, the user can know the status of the books if they are available or not. Additional information about the book posted on “Amazon.com” and link to the online bookstore are also displayed in the same page.
- In case the books are not available in any libraries, the user can go to online book store by clicking the link displayed.
Tokyo Amesh, Protecting people from rain disasters.

- Rain nurtures life and brings comfort to our life. It also provides us with drinking water. But, concentrated to downpours, rain inflicts great damage on our property and risks our life. Therefore, accurate rainfall information is essential for proper operation of a pumping station or a wastewater treatment center.

Rainfall information system “Tokyo Amesh” was firstly introduced in 1988 and was renewed in 2001. Since 2007, Tokyo Amesh has taken in data from adjoining municipalities to enlarge observation scope and enhance precision and reliability.

Source data: Public sector
Service provider: Public sector
Service user: Citizen

http://tokyo-ame.jwa.or.jp/en/index.html
Safety map

- Safety map shares the crime and risk information which is provided by police, city and citizen’s report.

Source data: Public sector & citizen
Service provider: Private sector
Service user: Citizen

http://www.ananmap.com/home.php
MAFF (Ministry of Agriculture, Forestry and Fisheries) provides the distance to grocery stores. With this service, we can see the population of those who have difficulties to go shopping on their own feet.

The map shows 500m mesh information.

http://cse.primaff.affrc.go.jp/katsuyat/
Environmental Information “Kankyo Tenbodai”

- The Environmental Information Department collates and manages information relating to the environment and disseminates this information widely via media such as “Kankyo Tenbodai” (Environmental Observatory).

Source data: Public sector
Service provider: Public sector
Service user: Citizen
Asahi Geo Survey edits and processes data on the nature of the soil and ground.

Source data: Public sector & Private sector
Service provider: Private sector
Service user: Citizen
Kamakura City and NPO “kayac” provide a game for smartphones.

In this game, citizens report their good actions to their accounts and get points.

Kamakura city provides rules for garbage disposal.

- Collection day, drop-off site, rules about trash separation and recycling

Information about garbage collection

Tomorrow: plastics, paper, clothes

Item collection

The rules about trash separation

Source data: Public sector
Service provider: NPO
Service user: Citizen

https://itunes.apple.com/jp/app/id490897389?mt=8&ign-mpt=uo%3D4
Smart phone app “Fishing guide”

- Fishing portal site for those who want to get relevant information on fishing.
  - Area guide, tide, weather information
- Guidebook publisher provide value-added service by using public data.

![Guide book](image1)

Guide book

Japan Meteorological Agency

Source data: Public sector & Private sector
Service provider: Private sector
Service user: Citizen
Future e-Government model from best practices

✓ Value chain
✓ Platform
✓ Collaboration
✓ Mobile
✓ Sensor network
✓ Information Analysis
CHALLENGES
Cabinet secretariat

- Cabinet secretariat reviews all projects in terms of comprehensive coordination of basic direction of policies and measures for open data.
There are many practical projects.

- Committee
- Open Data METI Site project
- Knowledge Infrastructure project
- IT Dashboard project
- Public Vocabulary Framework project
- Geographic Data project
- Japanese Character-set Project
- Support Program Database project
- Disaster Information project

Prototype (under evaluation)

Prototype (Under construction)

Experience

Knowledge

Report to the Committee of open government data
Outline of measures

- Demonstration tests are promoted for 1) establishment common API* (data model/data format, common vocabularies, etc.) for information circulation and sharing platform and 2) formulation of rules for secondary use of data (data governance method) necessary for effective circulation, sharing and use of data beyond the boundary of fields.

*Common API (Application Programming Interface) : common data format and communication protocol which ensure interoperability of information and data

Comprehensive ICT strategy in the future

1. Promotion of use of ICT
   - Strengthened “cross-sectional” initiatives
   - Establishment of information circulation and sharing platform
     Improvement of “open data circulation environment” through standardization of data format and provision of API, etc.
   - Environmental improvement for use of ICT
   - Construction of ICT infrastructure

2. Promotion of R&D, etc.

Planned period & Budget

Three-year plan (FY2012~FY2014)  FY2012  0.9 billion yen
There are various kinds and forms of activities to promote open data in Japan.

- Open data promotion consortium
- Open Knowledge Foundation
- Linked open data challenge
- Hackathon of Aging society
- Hackathon of weather data
LATEST PROJECT
1. Open data analysis drill for disaster management

Purpose and overview:

- Prevent crowded situation and avoid danger at major stations and terminals in emergency situation.
- Analyze the information from SNS → Capture the real-time situation → Utilize in evacuation guidance → Accumulate knowledge & know-how

Disaster countermeasures Office

Twitter

Area email

Internet

Open data

Go around near the station!!

Situation Analysis

Please go around!!

※Instruction to the site and area mail were not conducted in this drill.

Feb.6,2013

You can see the presentation of trial project with English subtitle (2012.10)
https://www.youtube.com/watch?v=C5E1M3xMmFo
Combine data on crowded area with local voices

① Visualize the data to capture the real-time situation

② Capture detailed trend and information

③ Capture the whole picture of the situation (local voices)

④ Further information on specific situation

⑤ Read text messages

Grasp the real-time situation!!
Shibuya station is currently VERY crowded!!

Evacuation center is this way!

Please go around!!

Shibuya station is currently VERY crowded!!

Shibuya station is currently VERY crowded!!

Please go around!!

Shibuya station is currently VERY crowded!!

Area where increased 20% in population density compared with previous 1 hour.

↑ fire

☒ blocked

Evacuation center

Number of text message about “danger”

Population density
- Over 40,000
- Over 30,000
- Over 20,000
- Over 10,000
- Over 5,000
- Less than 5,000

Train & Bus/ Status
- 山手线 运休 cancelled
- 埼京线 运休 cancelled
- 銀座线 運転再開 (22:50)
- 半蔵門線 運転再開 resumption
- 副都心线 運転再開 resumption
- 東横线 運転再開 (22:30)
- 田園都市线 運転再開 (22:30)
- 一部运行 一部運行

请绕行!!

Evacuation center is this way!

Please go around!!

Shibuya station is currently VERY crowded!!

Please go around!!

Shibuya station is currently VERY crowded!!

Please go around!!

Shibuya station is currently VERY crowded!!
But!! The Drill postponed by heavy snow.

Plan B: Information analysis drill of heavy snow situation was carried out.

Public sector can grasp the situation.
THANK YOU.