International PPP Forum
Use of ICT and Open data in Sabae City

国際PPPフォーラム
鯖江市における情報化、オープンデータ化の取組みについて

10月17日(火)

鯖江市とは・・・
About Sabae City

・Area：84.59 km² Second smallest in Fukui Pref.
・Population：69,253 (As of Oct.1, 2017 Largest in the city history)
・Density：817.4/km² Most dense in Fukui Pref.
・Eyeglasses, textile and lacquerware—Focus on 3 local leading industries
・「Most livable cities in Japan 2017」(Toyo Keiai magazine) 7th in Japan

「The city that attracts youth and retain people」
・Three arrows in Sabae [Partnership with students, “Citizen ownership,” and IT usage through open data]
・Creation of attractive employment
Make IT industry to vitalize the city
Why Sabae aims to become “IT town” through fostering IT as the forth industry

Oct. 2004, upon inauguration as Mayor…
Mayoral election after recall of former mayor, torrential rain damage, tough financial condition

I wanted to revive Sabae

Citizen participation and partnership

1990  Citizen’s charter
1995  World gymnastic championship
1998  Gymnastic world cup finals
1999  Community activity center
2003  Referendum on merger with Fukui City
       2004.3  27,000 signatures against merger submitted to the city
       2004.3  withdrawal from merger negotiation
       2004.7  Torrential rain damage (city’s eastern part)
       2004.8  Referendum for Recall of former mayor
       2004.10 Inauguration of Mayor Makino
       2010.4  Ordinance on Citizen ownership
       2017  Citizen ownership projects: 51 commissioned to citizens

Making IT as the 4th industry and revitalize the city
Citizen ownership

Development of the ordinance (160 days)

2009

10.23 Call for committee members
11.30 appointment of committee members (16) workshop
12 2nd workshop (working party)
12 3rd workshop (working party)
12.21 4th workshop (plenary session)

2010

1. 5 coordination meeting (adjustment of draft ordinance)
1. 8 5th workshop (plenary session)
2. 1 6th workshop (plenary session)
2. 3 7th workshop (plenary session) and report to Mayor
2.26 Proposed draft ordinance to the city council
3.19 Council approved the ordinance

4. 1 Enactment of the ordinance

- 5 plenary sessions, 11 working party meetings and other meetings were held
- 12 opinions (6 people) for the public comment

Citizen ownership ordinance (2010.3.26 promulgation, 2010.4.1 enactment)

Citizens proposed and drafted ordinance. Making the city full of hopes and dreams through the participation and partnership with citizens. Consists of 12 concise articles.

Art 1 Purpose
Art 2 Basic principle
Art 3 Learning about Sabae
Art 4 Creating Sabae brand
Art 5 Local industry
Art 6 Local production and local consumption
Art 7 Community development
Art 8 Volunteer and citizen activities
Art 9 Aggregate and disseminate information
Art 10 Sharing information among citizens and government
Art 11 Citizen participation
Art 12 Self monitoring and review of the program

(Community development) Art 7 Citizens strive to develop voluntary and independent communities which foster characteristics of the community, that is the foundation of the citizen-led community development, where people of various positions, generations and gender help each other and act continuously.

(Volunteer and citizen activities) Art 8 Citizens strive to actively participate in volunteer and citizen activity and shine as main actors of the city development while working on various community challenges.

(Sharing information among citizens and government/administration) Art 10 The city will proactively promote information disclosure and provision, and share and utilize information with citizens
Committee to promote citizen ownership ordinance

Initial members 11 → current 46

Committee and the city signed seven item agreement

Started discussion to make the ideas to actual activities (in 3 working parties)

2010.7.7
Youth has also established

Working parties(WP)

Community governance

Sabae’s brand promotion

Citizen participation

Programs developed under the Committee

◆ WP for Citizen participation
  ・Proposal-based Citizen ownership program*

<table>
<thead>
<tr>
<th>Year</th>
<th>Targeted proj.</th>
<th>Proj. received proposals</th>
<th># of proposals</th>
<th># of groups</th>
<th># of implemented proj.</th>
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</thead>
<tbody>
<tr>
<td>2011</td>
<td>67</td>
<td>24</td>
<td>29</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>2012</td>
<td>88</td>
<td>31</td>
<td>26</td>
<td>13</td>
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<td>2013</td>
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<td>91</td>
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<td>37</td>
<td>21</td>
<td>32</td>
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<tr>
<td>2015</td>
<td>93</td>
<td>39</td>
<td>43</td>
<td>26</td>
<td>37</td>
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<tr>
<td>2016</td>
<td>102</td>
<td>43</td>
<td>42</td>
<td>28</td>
<td>38</td>
</tr>
<tr>
<td>2017</td>
<td>101 (7)</td>
<td>51 (6)</td>
<td>50 (7)</td>
<td>33 (6)</td>
<td>45 (6)</td>
</tr>
</tbody>
</table>

*City calls for proposals for certain projects (which have been implemented by the city) to be adopted or implemented by citizens

Committee made third recommendation to the city in July 2016 to include newly developed projects for the scope of proposal. From FY 2017, new projects are included. # in ( ) are new projects.

・College and high school students participate in the committee, wider variety of generations
・In FY2017, largest number of proposals are received and implemented. New proposal came from new groups. Wider range of citizens participate in the program.

◆ WP for Sabae’s brand promotion
  ・Consultation-based Citizen ownership program (2012～)

◆ WP for Community governance/autonomy
  ・Training course for supporting citizen-led development (2012～)

◆ WP for Youth
  ・Welcoming “Arashi” fans project (2016.4.23) etc.
Using IT through open data in city development

Open data① (Converting public information into XML format to allow secondary use)

In addition to Public relations activities through City bulletin, Website, CATV, and radio, the city promote information sharing which is stated in the ordinance:

2010 Dec (City) W3C (WWW consortium) proposed Sabae to become a “data city”
(City) 1st Sabae IT Forum

2012 (City) Location information of public toilet and community bus
Linked Open data Challenge 2012: Public LOD award,
Declaration of IT city
2nd Sabae IT Forum

(National) e-Government Open Data Strategy (referral to Sabae)

2013 (City) LOD Challenge 2012 人の流れ賞、Open data promotion consortium
1st prize, Google award, 3rd Sabae IT Forum
(National) Declaration on the Creation of the World’s Most Advanced IT
Nation, G8’s open data charter
(National) Ministry of Internal Affairs「White paper on Information and
communication」referred to Sabae as the top-runner of IT use
(data city, open data, open government)

2014 (City) Became W3C member、5star Open Data Platform、water level
data, Manifesto Awards Excellence award、4th Sabae IT Forum

2015 (City) 5th Sabae IT Forum
2016 (City) 6th Sabae IT Forum
2017 Oct (City) 7th Sabae IT Forum

Open data activities (Data City Sabae)

2010.12 鴨江市長室にて

Sabae Resident
Mr. Fukuno

Sabae Mayor
Mr. Makino

Manager, W3C Japan
Mr. Isshiki
In accordance with the principles set forth in the *New Strategy in Information and Communications Technology* (IT) (adopted by the IT Strategic Headquarters on May 11, 2010) and the *Basic Action Plan for the Promotion of e-Government* (adopted by the IT Strategic Headquarters on August 3, 2011), the IT Strategic Headquarters adopted the *Open Government Data Strategy* set forth below as a fundamental strategy on promoting the use of public data when supporting open government with the understanding that public data is an asset of the people. The purposes of the strategy are to immediately undertake measures for encouraging the use of public data and to implement them broadly in order to raise the standard of living and invigorate business activities, contributing to the development of Japan’s society and economy as a whole.

In Section II (2) Circumstances in Japan

In Japan, specific examples are limited…. In addition, a private sector attempt is being made in Sabae City, Fukui Prefecture to prepare evacuation maps using information on the sites of evacuation sites, artificial external defibrillators, rest rooms, and so on.

◆ **Open data activities**

  Datasets made available to the public 185
  Applications developed by private sectors 200

◆ **Application of bus location**

  Provide information on locations of buses and departure/arrival at a public hospital through its website

◆ **Apps developed by private**

  "Navi Dog"
  An app to navigate to evacuation shelters and tourist destinations using Augmented Reality.
Citizen participation 「Saba repo(Sabae reporting)」
Residents can post photos on maps and report to the city and other users on potholes, other places need maintenance, fun places to visit etc. Android, iOS.

Support for residents and parents Tutujikko Little
Developed with a fellowship by Code For Japan. Provide information on bus, public facilities, PR, events, waste collection, child care, and evacuation shelter. Android, iOS

Fire hydrant map application
In January 2013, hydrants were buried in heavy snow and caused delays in fire fighting. This location map helps residents to locate hydrants and remove snow. Web application.

River water level application
In July 2014, Sabae suffered from flooding due to the heavy rain. This Web-based application helps to visualize water levels in rivers.
## Open data activities in Fukui Prefecture

### Prefectural data 167
- Emergency management (11)
- Zoning and development (6)
- Health care and child care (7)
- Subsidies and grants (6)
- Forestry (8)
- Tourism and gourmet (31)
- Education (8)
- Administration and taxes (22)
- Statistics (16)
- Welfare (9)
- Others (33)
- Police (5)
- Prefecture and 17 municipalities (4)
- Data provided by private sectors (1)

### Apps using the data 49
- Event navigation
- Tour attendant
- Cultural heritages
- Waste management
- Waste segregation and recycle
- Evacuation shelters
- Population estimate
- Automated External Defibrillator etc

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### 受賞歴
福井県と県内各市が一体となってオープンデータの取組みを推進していることが評価され、受賞。
- 2014年（H26）オープンデータ推進賞
- 2015年（H27）北陸情報通信協議会長表彰
- 2016年（H28）広域データ賞

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### Educational activities

#### Programing Club in elementary and middle schools

Using Sabae-based programmable kid’s PC, ichigojam

Started in 2015, in preparation of 2020, when programming will be included in compulsory education curriculum. Will be expanded to all elementary and middle school in Sabae in 2018.
Corporate fellowship program
Experts in residence through Code for Japan initiative

From Fujitsu Co. (from Nov 2017, 4th year)

2016
from Yahoo Japan
Mr. Hirose
Ms. Katsuragi
Promotion of Public transportation system using open data

2014 Mr. Okuno from SAP
Japan
Development of Open data strategy

2015 Mr. Ishizaki from NEC solution innovators
Development of Tutujikko Little, family and parent support application

Selected as an IoT acceleration lab by METI (2017/Mar)

- Sabae, Fukui
  - Location information is provided since 2014
  - In corporation with jig.jp, Artfinex, and Yahoo,
real-time user demographic analysis using ichigojam and face recognition technologies
  - Provide regional activity and event information
to visitors

Participation to Public and Private network for IoT implementation (MIC, 2017/July)

IoT, big data, AI etc. are expected to enrich the public service through utilization of data by residents, administration and businesses, create new business and employment opportunities, and provide effective and efficient solutions to regional challenges.
1 Visualization of # of users at each bus stop

2 Automated data collection to reduce administrative work for statistics

Since Smart Glasses Summit 2014/11
Co hosted w/Fukui Pref.

AR application contest
Intend to become a city of wearable devices and softwares
Establishment of Hana Open Innovation Dojo supported by SAP Japan, Dell, and intel (2015.11)

- SAP Japan supported a Sabae-based NPO L-Community to set up the Dojo (lab)
- Dell • intel gratuitous lease of video conference systems and tablets (2016.Feb)

Ichigojam Programming workshop
A 3-D printer, laser cutter, and PCs are installed for the use of residents who are interested in crafts and manufacturing. Workshops on programming, crafts and manufacturing and others are provided.

Workshop for women for crafting and manufacturing

Seminar to experience applications for elderly

Supported by IT related companies

<table>
<thead>
<tr>
<th>SAP Japan</th>
<th>Support for Hana Dojo</th>
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<tbody>
<tr>
<td>Dell</td>
<td>Gratuitous lease of equipment for a satellite office, and video conference systems to city hall etc.</td>
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<tr>
<td>intell</td>
<td>備品無償貸与、鯖江市役所など市内4か所に会議システム等無償貸与</td>
</tr>
<tr>
<td>Yahoo Japan</td>
<td>Sabae Auction site within Yahoo Auction</td>
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<tr>
<td>Itoen</td>
<td>Support for Hana Dojo</td>
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<tr>
<td>Lenovo Japan</td>
<td>Support for Hana Dojo</td>
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<td>NPO Code for Japan</td>
<td>Corporate fellowship program to send experts to City hall (from SAP Japan, NEC solution innovator, Yahoo Japan etc)</td>
</tr>
<tr>
<td>JM</td>
<td>Development of open data of 3-D shopping streets</td>
</tr>
<tr>
<td>Pacific Consultants</td>
<td>Open data development of bridges</td>
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</table>
Creating a attractive work place for youth

**Satellite office pilot project (2016-2017)**

- Located suitable office location through vacant house matching program

**Selection by MIC**

Ministry of Internal affairs and communication (MIC) selected 10 Cities in Japan to participate in the pilot project

Use a vacant house in downtown as a pilot site for trial use to start telework

Also set up pilot sites in mountain and other places

**Dell has agreed to provide office equipment (2017. July)**

- 8 Large monitors and 5 PCs
- 2 LCD projectors

Dell provides devices that are designed through their “seven method” workforce transformation proposal.

With Ms. Yamada (Sales Director at Dell)

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### Attracting Satellite offices

**Trial sites for satellite offices**

- **2017.6.5~6.7**: Hosted seminars for companies in Tokyo and Osaka
- **2017.7.5~7.6**: Tour for monitor companies
  - **8.31**: 34 Companies participated in Trial program (IT, consulting, architectural firms)

**Seminars in Tokyo and Osaka**

(Participants 45 companies : Tokyo21, Osaka24)

**Tour for monitor companies**

(Participants 26 ppl from 18 companies)

An consulting firm set up an office in downtown on September 27

A real estate information provider will set up an office in Sabae

**Others...**

- IT related companies in Tokyo are interested in setting up offices in downtown
- A big IT company will hold a large employee training workshops

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モデル事業を実施した結果
Thank you