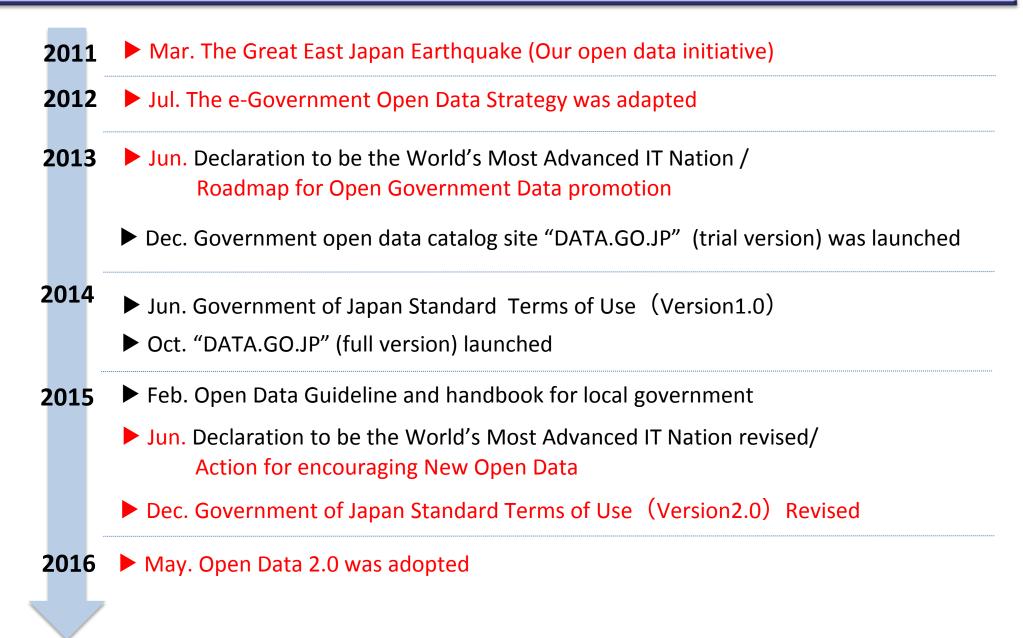
# **Open Data Actions in Japan**



Sep. 7, 2016 Deputy Director Naoki TATSUZAWA National Strategy Office of ICT Cabinet Secretariat

# **Overview of Open Data Actions in the Government**

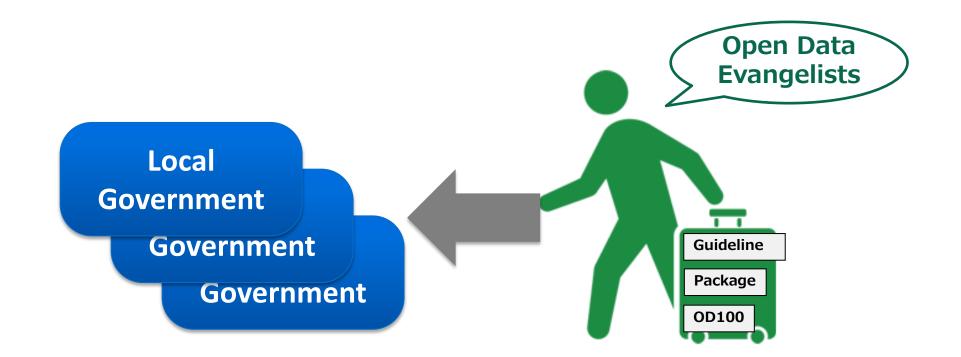


# **Open Data in the Government**

Ministries and Agencies	# of Datasets (Mar. 2015)		# of Datasets (Jun. 2015)		# of Datasets (Sep. 2015)		# of Datasets (Mar. 2016)		Increase from Mar. 2015	Increase rate from Mar. 2015
合計		12970		13038		14731		16308	3338	3 25.7%
Ministry of Land, Infrastructure, Transport and Tourism		3202		3211		3416		3619	417	13.0%
Ministry of Economy, Trade and Industry		1512		1512		2165		2347	83	5 <mark>55.</mark> 2%
Ministry of Education, Culture, Sports, Science and Technology		1299		1331		1431		1477	178	3 13.7%
Ministry of Health, Labour and Welfare		1096		1065		1268		1488	392	2 35.8%
Ministry of the Environment		1025		1035		1035		1037	12	1.2%
Cabinet Office		812		812		1186		1417	60	74.5%
Ministry of Finance		765		745		774		1166	40	. 52 <mark>.</mark> 4%
Ministry of Internal Affairs and Communications		746		748		721		849	103	3 13.8%
Ministry of Agriculture, Forestry and Fisheries of Japan		536		536		536		543	-	1.3%
Ministry of Justice		531		556		565		584	53	10.0%
The National Police Agency		388		407		463		422	34	8.8%
Ministry of Defense		278		287		307		326	48	17.3%
Financial Services Agency		152		154		163		228	70	5 <mark>50</mark> .0%
Japan Fair Trade Commission		129		130		136		145	10	5 12.4%
The National Personnel Authority		122		124		141		197	7!	61.5 <mark>%</mark>
Ministry of Foreign Affairs of Japan		120		122		126		131	1	9.2%
Imperial Household Agency		93		93		96		121	28	30.1%
Cabinet Secretariat		63		65		71		74	1	
Consumer Affairs Agency		53		57		82		83	3(	
Cabinet Legislation Bureau		37		37		38		43	(	16.2%
Reconstruction Agency		11		11		11		11	(	0.0%

## **Open Data Evangelists**

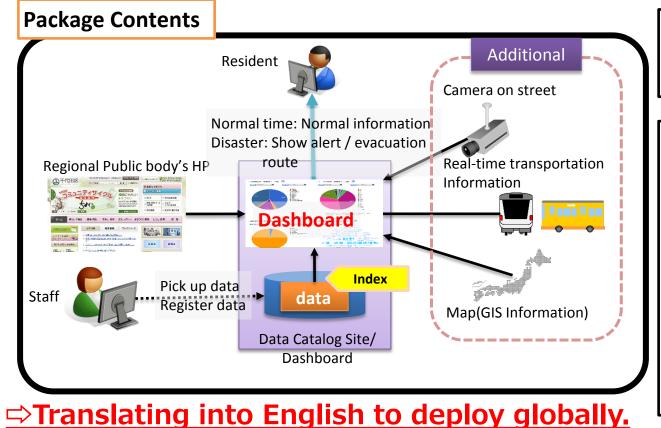
- Appointed eight experts as "Open Data Evangelists" and started to send them to local governments this year.
- Each evangelist promotes the utilization of Open Data and helps local governments set up Open Data portal sites together with "Open Data Guideline and handbook for local government", where national initiatives are summarized, "Open Data Package for Local Governments" and "Open Data 100 (Use Case)".



## **Open Data Package for Local Governments**

#### **Provide Package to Accelerate the Action of Open Data in Local Governments**

To support local governments that do not know hot to take a first step toward open data, we will provide package that consists of open data catalogue and dashboard application using this open data. We will assist local governments to take action for open data and have the fundamental to apply this package to other local governments.



#### Included in this package

- ·Data Catalogue for open data
- Dashboard using open data

#### Effect expected

•Help solve problems faced by regional public bodies by opening data related to regional issues such as disaster prevention, decreasing birthrate and aging society etc.

Make it easier to start open data by providing package focusing both on the availability and the use of data
Provide example of standard format

for registering data

## **Open Data Catalog Site**

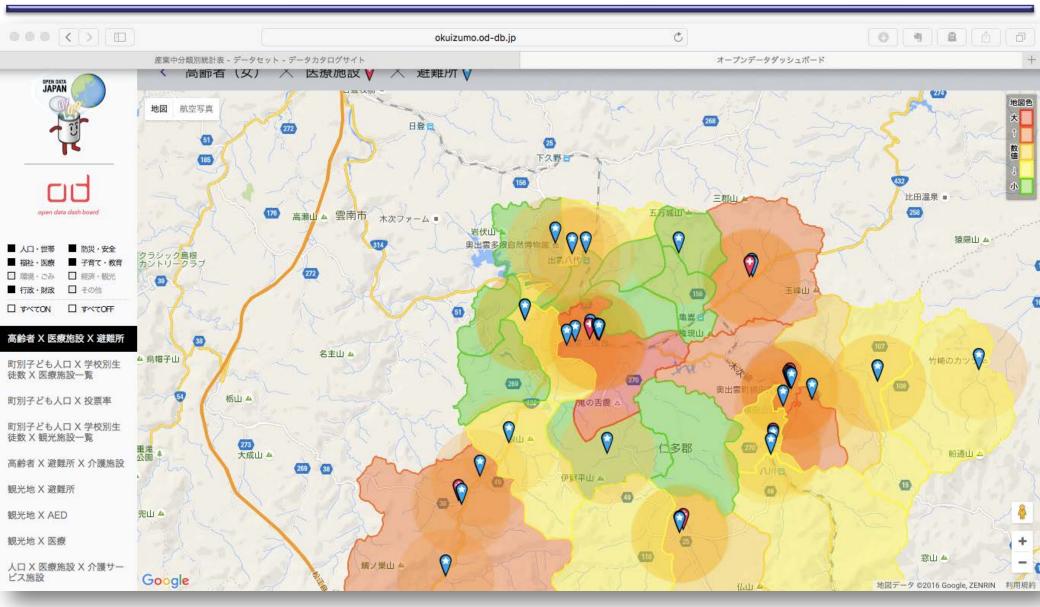




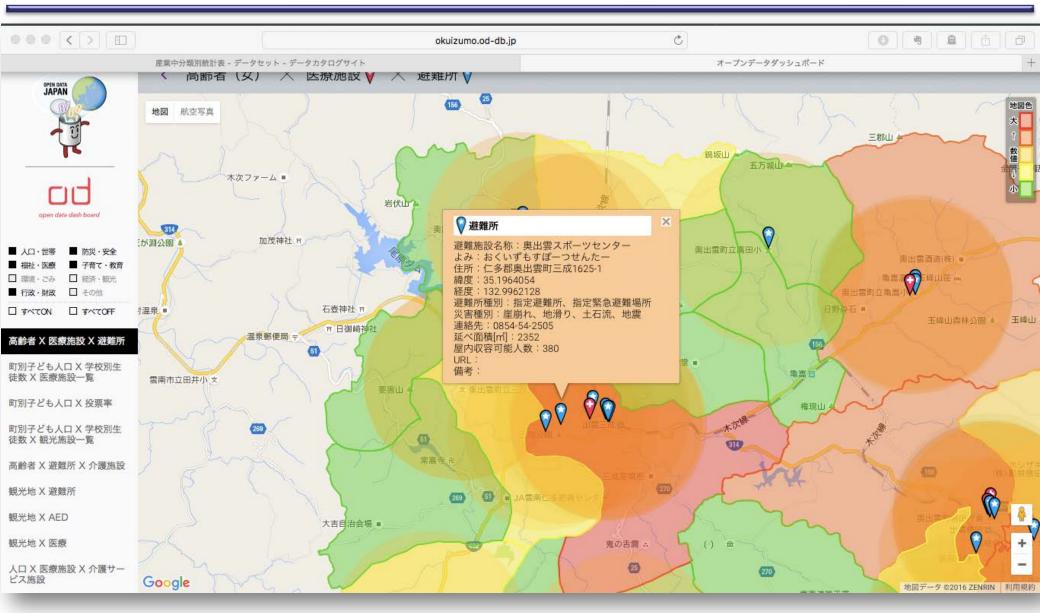
## **Open Data Dashboard**



## **Open Data Dashboard**

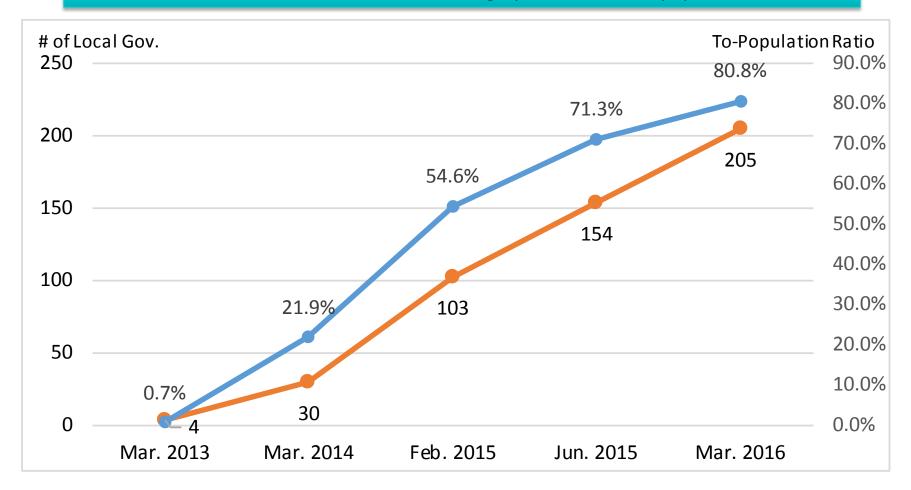


## **Open Data Dashboard**



# The Transition of Local Governments Tackling Open Data

The Number of Local Governments Tackling Open Data and To-population Ratio



\*Based on the study in National Strategy Office of ICT, Cabinet Secretariat All the prefectures and municipal governments are targeted.

# Data Utilization Case #1. Disaster IT : Traffic performance map

After the Great East Japan Earthquake (2011), traffic performance map was generated and released by using traffic performance data, gathered from automobiles attached with navigation system.

## [Outline]

- Honda provided traffic information based on traffic performance data, automatically collected from automobiles attached with navigation system "Internavi".
- Right after the earthquake, Google visualized the availability of each road in devastated areas as "Google Crisis Response".

#### [Results]

- Contributed to support people in devastated areas quickly. E.g. helped volunteers deliver relief goods smoothly.
- Same action was taken in the 2016 Kumamoto earthquake.





何処に行く?

出発地

目的地

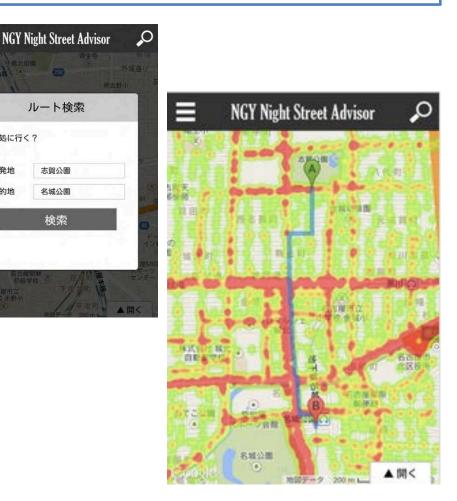
College students have created a heat map about street lamp locations by means of street lamp location data owned by local government (open data).

#### [Outline]

- Akashi college's "Code for KOSEN" team developed the application using street lamp location data provided by the local government (Nagoya City).
- The application indicates street lamp locations on the map and recommends well-lighted route to prevent crimes, based on the fact that crime rate increases in the dark night street.

## [Results]

- Citizens can get to their destinations safely avoiding dark night street.
- The same system is being deployed to Shizuoka prefecture.



# Data Utilization Case #3. Regional Revitalization : Eagle Bus, Inc.

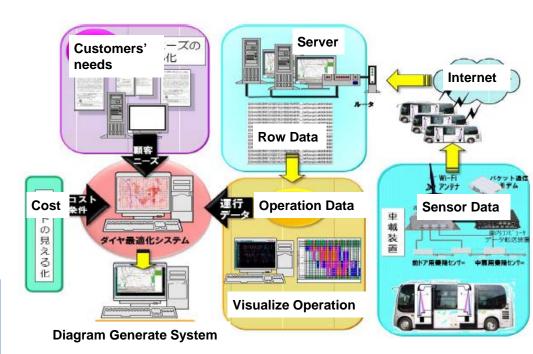
Eagle Bus, Inc. became profitable through the optimization of bus routes by using data from sensors attached to buses. Furthermore, this system contributes to revitalize local communities by setting up new hub bus stops, where community facilities are installed.

## [Outline]

- Attached sensors to buses' entrances and exits to seize vehicle occupancy anywhere anytime. (visualize service status)
- Optimized bus routes and set up new hub bus stops by setting up the best routes and revising schedule from the sensor data.
- Revitalized local communities by installing bank ATMs, convenience stores, post offices at the hub bus stops as well as optimizing its operation and improving its profitability.

## [Results]

- The number of passengers has doubled or even tripled with the same number of buses.
- Improved profitability and enhance convenience for local citizens.
- Deployed the same systems in Hakodate city (Hokkaido prefecture, Japan) and Yangon city (Myanmar)



Cited from Eagle Bus, Inc. document



# **Future Action of Open Data**

We will take a further step to implement "Solution-oriented Open Data" (built Open Data step in the process of making measures in the ministries and agencies, etc.) to shift from "Open Data to the public" to "solve social issues utilizing Open Data".

During the intensive period through 2020, the main focus will be "Promoting Dynamic Engagement of All Citizens", "Tokyo Olympic Paralympic 2020" to deepen our action of Open Data.

# Open Data 2.0

#### Policy

# Designate prioritized areas based on policy issues

Promote "Open Data Cycle", where the needs of new data further open data to the public while finding and solving social issues.

#### Promote private sector open data initiatives within a defined range of areas

Not in competitive areas, but in cooperative

#### **3** Actions in local governments

Promote voluntary actions based on regional characteristics as well as the cross-regional actions such as disaster preventions

#### Revised on June 20, 2016 IT Headquarters.

#### **Prioritized** areas

- Promoting Dynamic Engagement of All Citizens Robust Economy, Childcare, Social security
- 2 Tokyo Olympic Paralympic 2020

Smooth preparation and operation, create new image of Japan through Olympic and Paralympic

#### Others

- Deploy our initiatives at the regional level and overseas (especially in Asia)
- 2 Enhance the structure to promote open data (Set up a structure with Deputy Directors-General for Cybersecurity & Information Technology)
- 3 Standardization, Promote Open Data Develop Human Resources etc.

# How to Globalize in the Future

## Utilization Index and enhancement the collaboration in Asia

- In collaboration with OECD (OURdata Index<sup>\*</sup>) or the Asian countries that are active to Open Data, we will design new index focusing on the social issues common to each country such as disaster-prevention etc. or the utilization.
  - ※ OUR(Open, Useful, Reusable)data Index : The international open data index developed by OECD. This index is self assessment by each government, and is different from other indices given by some of the private sectors.
- In order to promote open data utilization, we will consider how to build and deliver the new index focusing on the open data utilization.
  - > To globalize the designed index, we will collaborate with the organizations involved.
    - We will design the index structure to seize the environment and situation of utilization.
    - > We will consider how to expand this index globally.
  - Schedule
    - > We had the preliminary study with experts to discuss future plan on March 28<sup>th</sup>.
    - Based on the arguments in OECD or Asia Open Data Partnership, we will decide the direction and contents cooperating with Asian countries.
    - > If necessary, we have the actual investigation and wrap it up by the end of this year.