

Thematic Meeting 3 : Use of ICT/Big Data

Venue : Silk, 1F, InterContinental Yokohama Grand

Moderator : Dr. Alfonso Vegara, Special Advisor for Y-PORT Center/

Founder and Honorary President, Fundación Metr poli

Conference Secretariat/Rapporteur : Mr. Shiro Yoshida, Senior Researcher, OECC

Language : English/Japanese (simultaneous interpretation is provided)


	City/Organization	Title	Name
1	Ho Chi Minh	Manager	Mr. Bui Viet Duong
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3	Kobe	Director, ICT Development	Mr. Taisuke Matsuzaki
4	Hitachi, Ltd.	General Manager	Mr. Akihiko Tobe
5	Pacific Spatial Solutions, LLC	President	Dr. Hiroo Imaki
6	NEC	Senior Manager	Mr. Seiji Fujinaga
7	Deloitte Tohmatsu Consulting, LLC	Partner	Dr. Lei Zhou
8	Macnica, Inc.	Manager	Mr. Hiroshi Abe
9	Yokohama City University	Advisor to the president	Prof. Hidefumi Imura
10	Seberang Perai	Director	Mr. Wan Junaidy Yahaya
11 *	Consolacion	NEDA 7 Assistant Regional Director	Mr. Dionisio Ledres Jr.
12 *	Province of Cebu	Regional Director	Mr. Efren Carreon
13 *	MCDCB	MCDCB Secretariat - NEDA RO VII	Ms. Maria Teresa S. Alambra
14 *	Embassy of the Republic of Indonesia	Diplomat - First Secretary	Mr. Ricky Ichsan
15#	Embassy of Vietnam	Counsellor	Dr. Bui Viet Khoi

* commentator

observer

**HO CHI MINH CITY PEOPLE'S COMMITTEE
DEPARTMENT OF INFORMATION AND COMMUNICATIONS**

**DIRECTING HO CHI MINH CITY
TOWARDS A SMART CITY**

A blurred background image showing a hand typing on a laptop keyboard, symbolizing digital technology and smart city development.

A nighttime photograph of Ho Chi Minh City, Vietnam, featuring a dense skyline of illuminated skyscrapers and buildings. The Bitexco Financial Tower is prominent on the left. The Saigon River flows through the city, with a traditional junk boat visible in the foreground. The sky is a deep blue, and the city lights create a vibrant, modern atmosphere.

VISION OF HO CHI MINH CITY AS A SMART CITY IN 2025

Ho Chi Minh City shall strongly, sustainably develop in economics, on the basis of the best exploitation of resources, whereas citizen is the center of the city

OBJECTIVES

An aerial night view of a city with four colored boxes containing objectives. The background shows a dense urban landscape with lights from buildings and streets, and a river in the foreground. The sky is dark with some clouds.

1

Ensuring sustainably economic growth, towards a knowledge economy

2

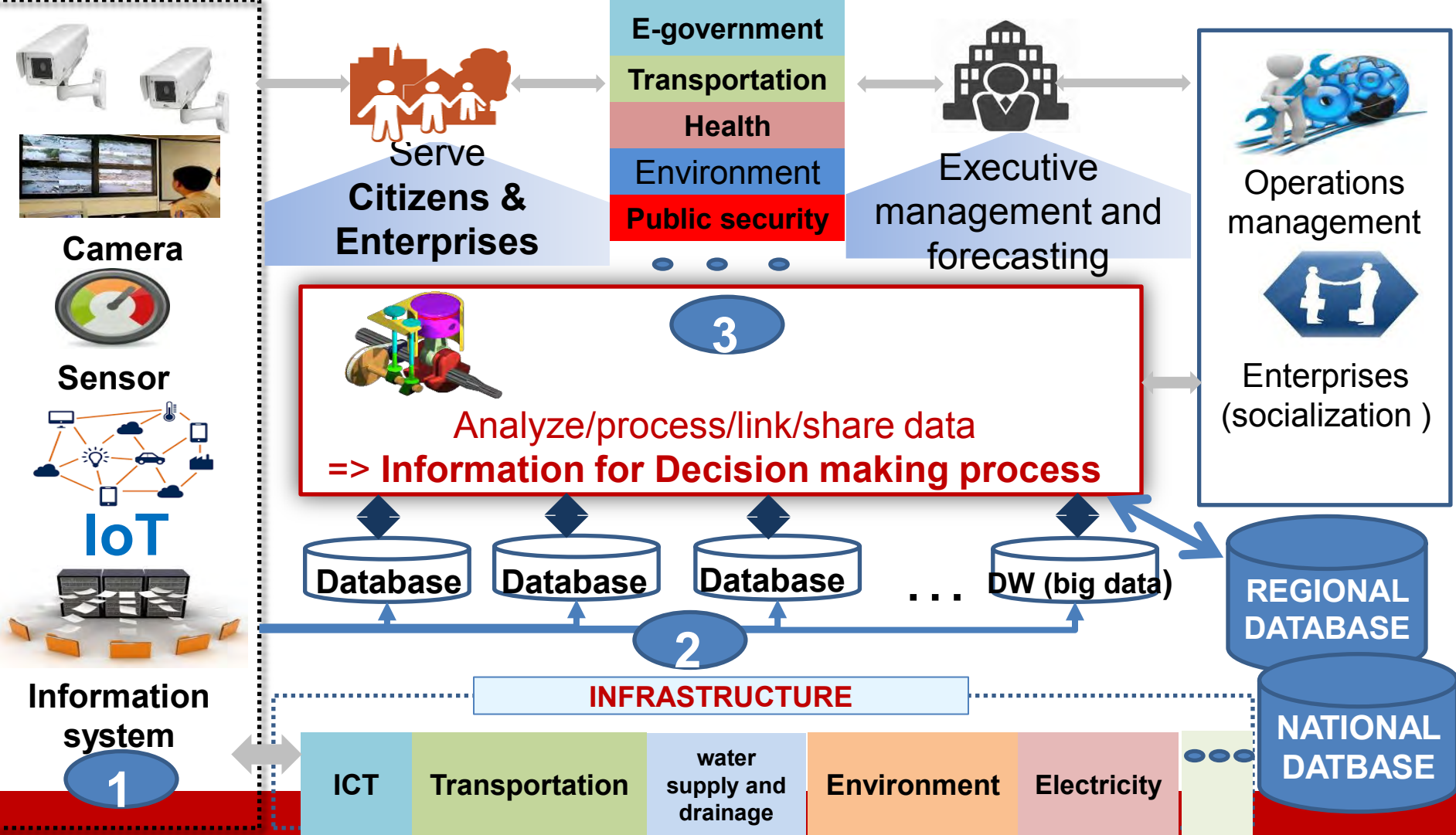
Effective urban governance based on forecasting

3

Improving living and working environment

4

Strengthening the participation of people and society



IMPLEMENTING SOLUTIONS OF THE SCHEME

1 Developing shared database and an open data ecosystem

3 Smart City Operation Center

2 Developing center for forecasting socio-economic development strategies

4 Information security and safety center

Technology Framework

E-Gov

ITS

Anti-flooding

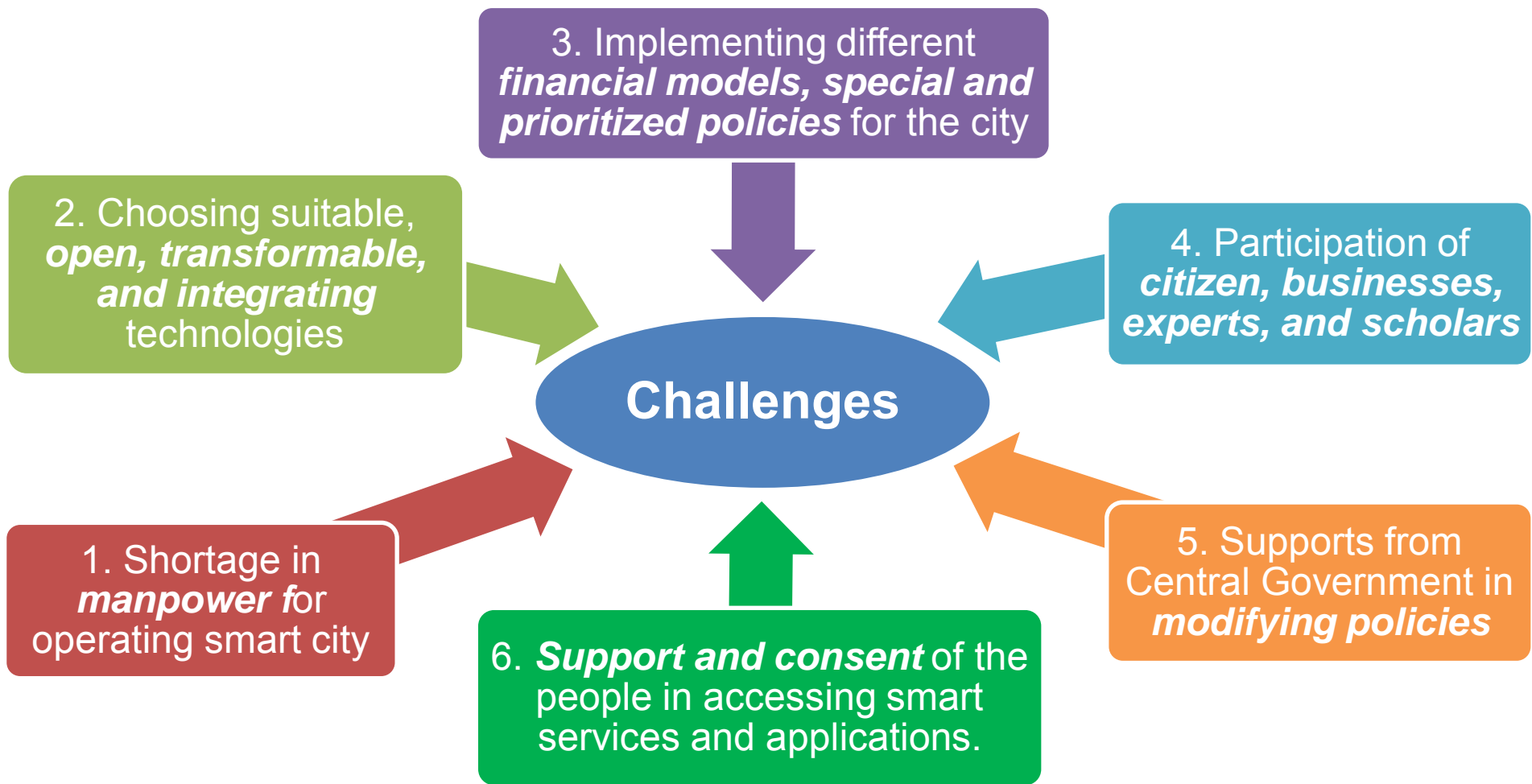
Environment

Health and Food Safety

Public Security and Safety

Urban renewal

Etc.





Thank you



Utilizing Big Data to Solve Urban Issues in Seoul



Sunghoon Kris Moon
Seoul Urban Solutions Agency
October 2017

Big Data@Seoul 2016-2017

2'55"

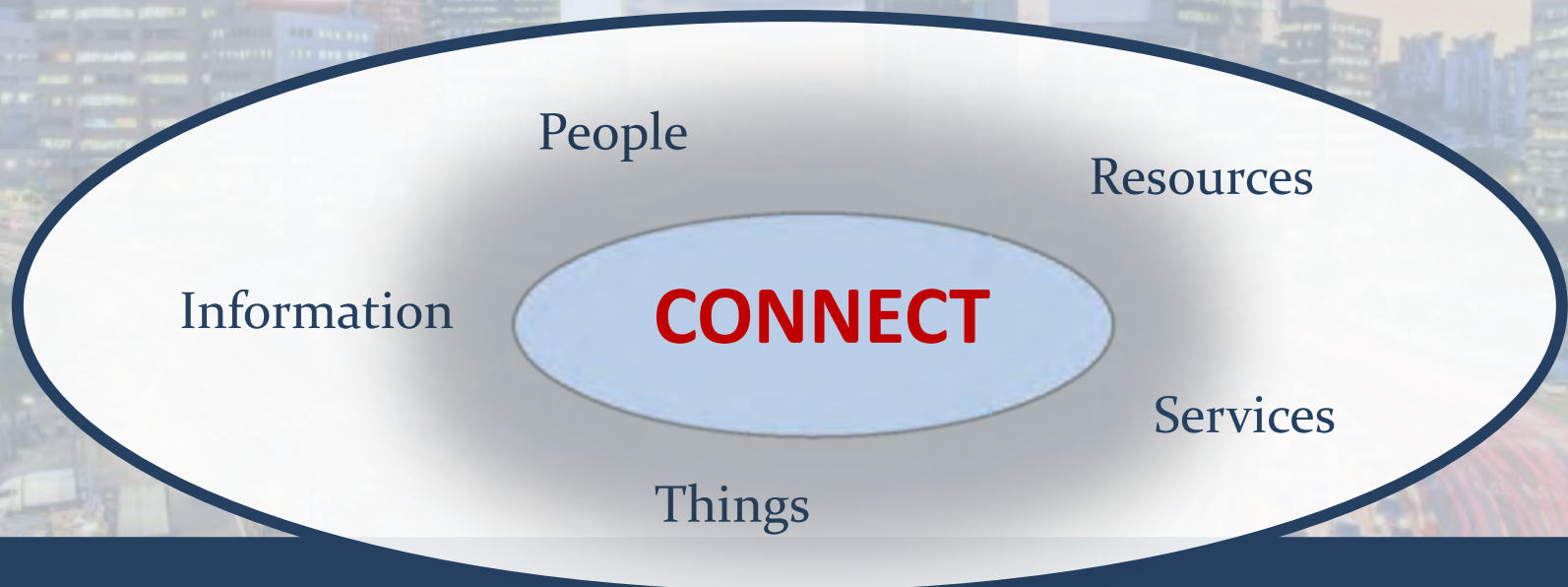
Smart City: Meaningful Connections

Leverage technology to serve its citizens and make cities more livable

Convenient
Citizen Life

Efficient City
Management

Transparent
Governance



Network + ICT + Data Analytics

Making of Seoul as a Smart City

1

Understand my city upon Big Data

2

Efficient city management through ICT on infrastructure

3

Smart IoT connections that make the city more livable

4

Provision of platform to stimulate economic growth

5

Facilitate transparency and stimulate citizen participation

6

Intelligent policy making through Big Data Analysis

**Citizen Life
City Admin**



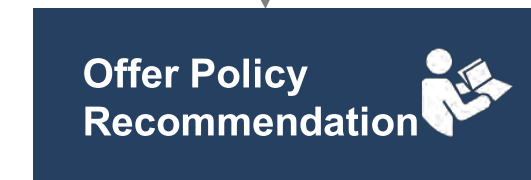
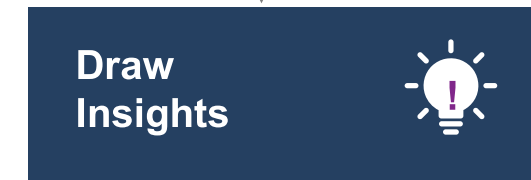
INCREASE

- Impact
- Efficiency
- Transparency
- Speed

Big Data for Problem Solving

Demand based project identification and process of analysis

[Capture Citizens' Voice]



Sources of Big Data

Where do Big Data come from?

Public Data

- Free of charge
- Limited access and use due to legal binds

Data from central govt and affiliated agencies

Data from city's IT systems

Data from city infrastructure
(CCTVs, monitoring systems,
transportation, etc.)

Data from outside non-profit
organizations

Private Sector Data

- Limited sourcing
- High cost at times
- Data manipulation (privacy issues)
- Limited access and use due to legal binds

Mobile phone related data

Finance (credit card) data

Floating population, spatial data

SNS data, etc.

Main Takeaways

What will ensure successful utilization of Big Data Analysis in your respective cities?

1

Big Data Analysis is not of and in itself a solution, rather it is...

- A powerful mechanism to understanding the problem and
 - An intelligent way of generating solutions
- Must have an objective to fulfill for data analysis

2

Need minimal data pool

- Publically generated data
- Access to private sector data

3

Understand the limitations in using the data

- Legal and other institutional issues that may prevent from collecting new data and utilizing available data sets

Thank You



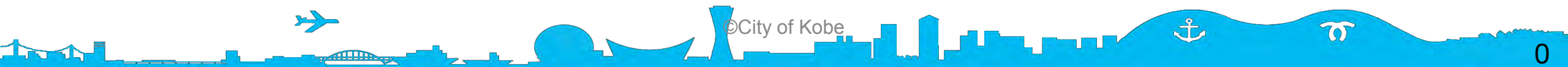
www.susa.or.kr

Creating “Gov.Tech” Market in the Era of Big Data

Taisuke Matsuzaki

City of Kobe

26th Oct 2017



Disaster Preparedness fading away

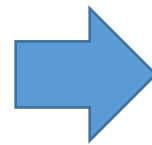
Citizen Experienced Kobe Quake

99%
1995

50%
2017

40%
Firefighters

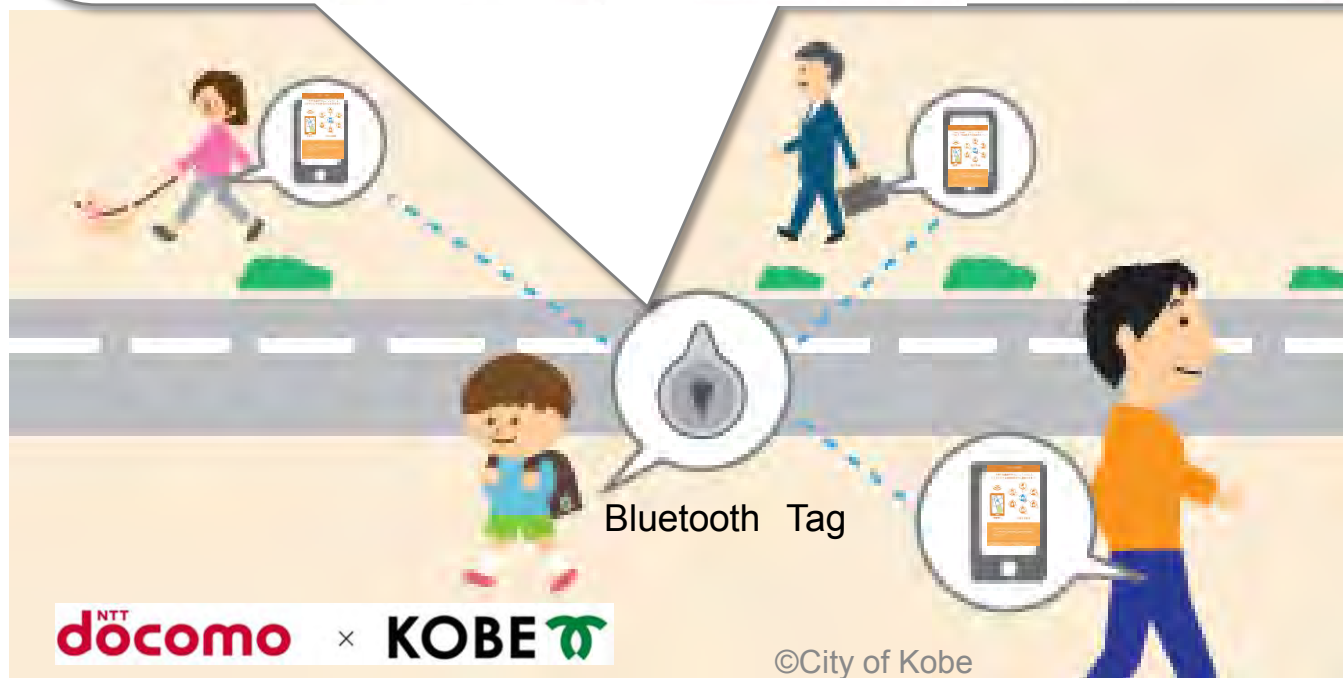
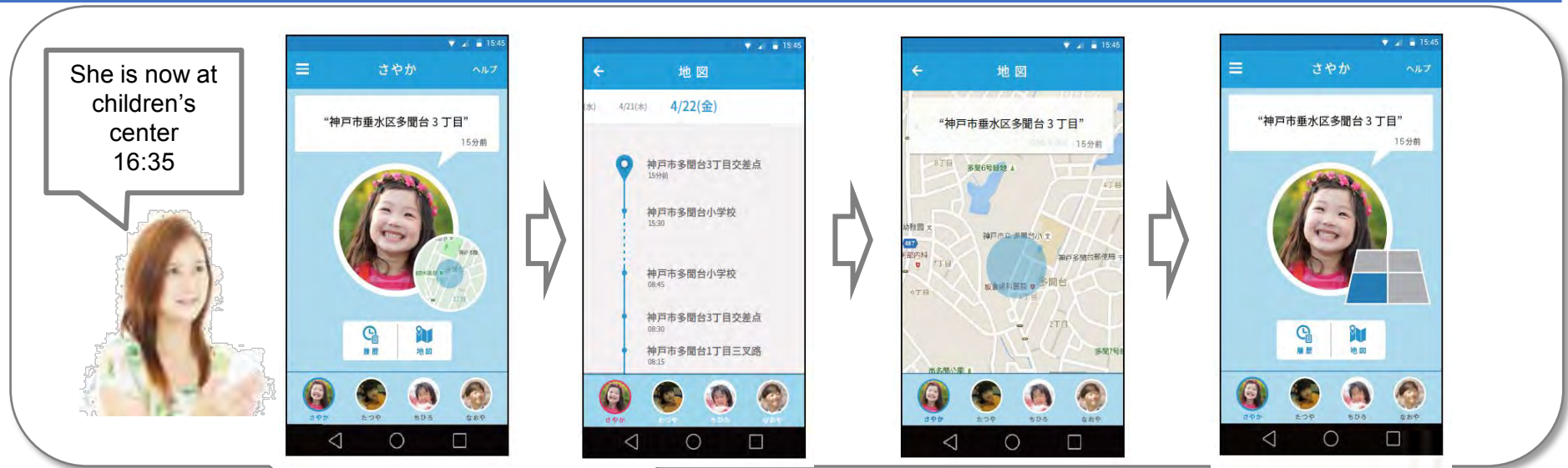
Photo Data & Memorial App.



©City of Kobe

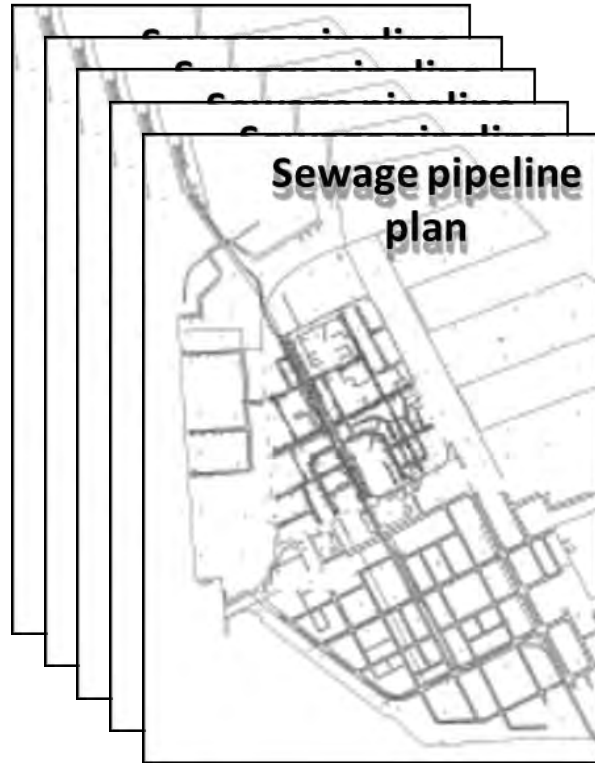


Demonstration Experiment (Child monitoring)

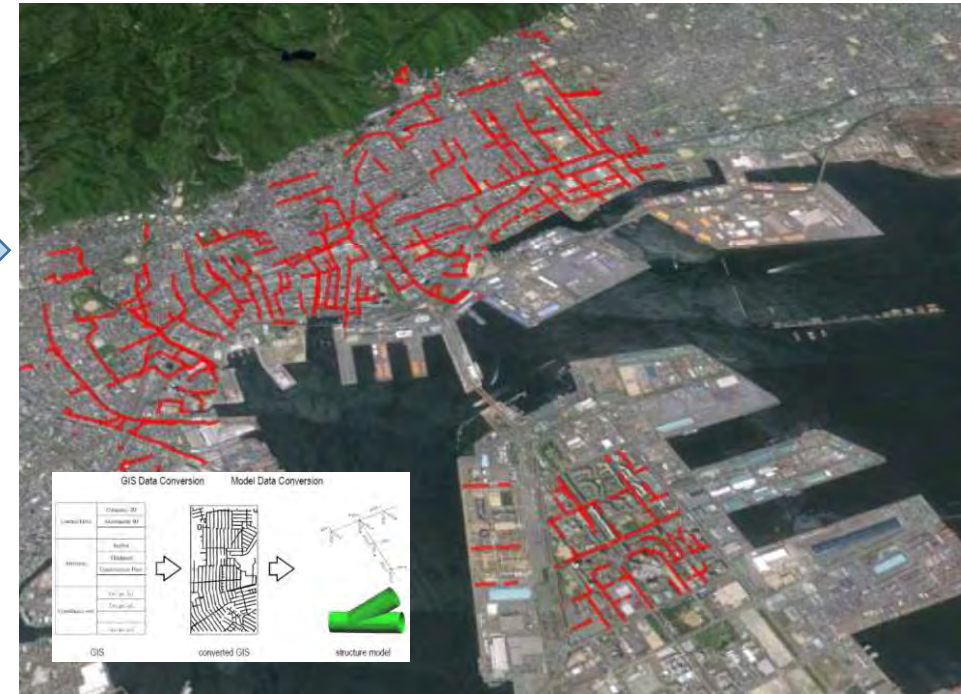
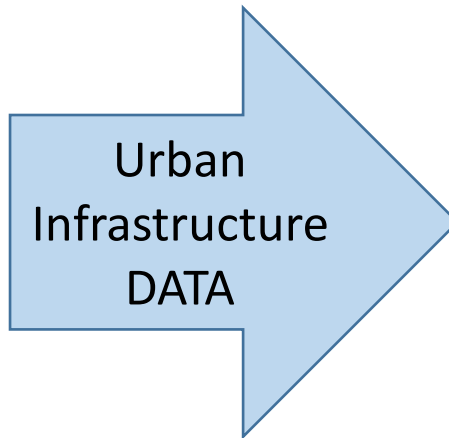


Supporters cooperate through the App.

Shaking Simulation of Kobe city on the super computer

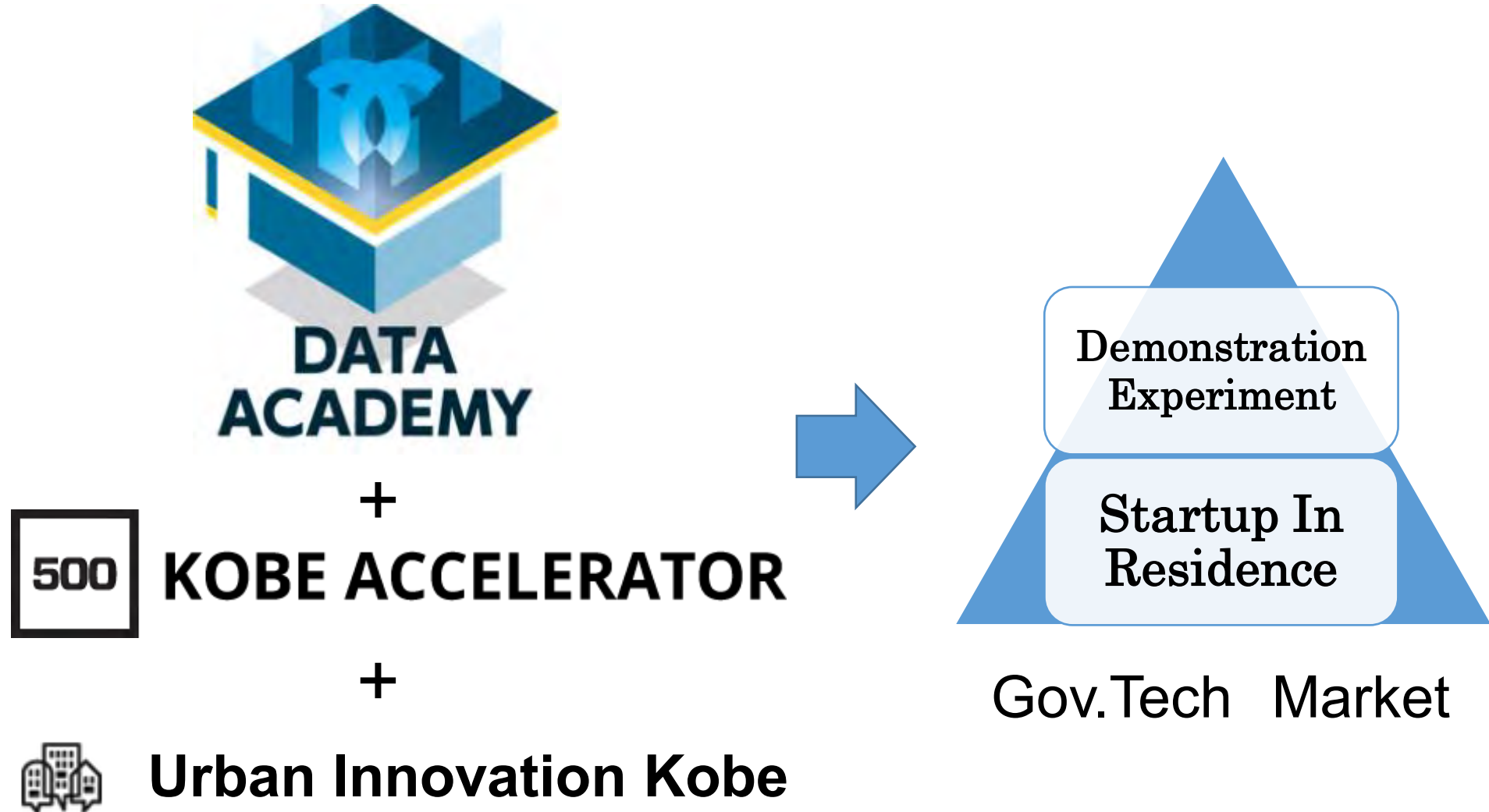


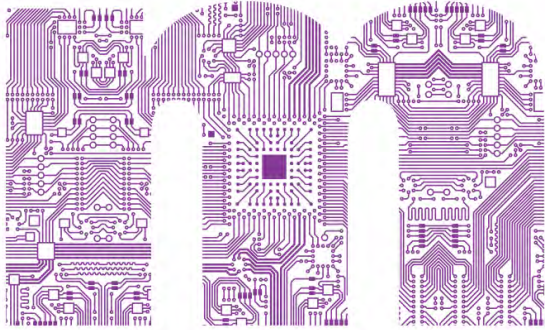
City Data



Next Generation GIS Hazard Map

Creating “Gov.Tech” Market





Macnica Corporate Introduction

New Business Development

Macnica, Inc.

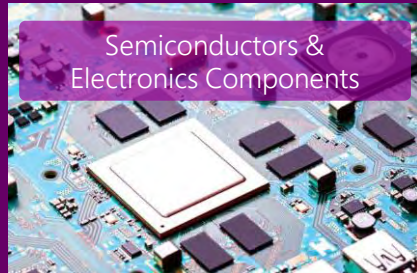
July, 2017



Macnica at a Glance

• A growing global technology distributor

A global leader in
**value-added
distribution** of



Network & Security



#1

Domestic share in
semiconductor
distribution (Gartner 2014)

#5



World-wide share in
semiconductor
distribution (Gartner 2016)

2,600+

Employees

75

Locations World wide
closely supporting
customers

200+

Leading Edge/Premier
Partners

MACNICA

Industry Top Runner

- 1st Tier Distributor both Key component and Security Products
- No.1 market share in Japan and Asia as dominant technology distributor

A vertical column of logos for various technology companies, each accompanied by a blue star-shaped badge containing the text 'No. 1'. The logos are: ALTERA (now part of Intel), infineon, BROADCOM, ANALOG DEVICES (AHEAD OF WHAT'S POSSIBLE™), Micron, LINEAR TECHNOLOGY, MICROCHIP, and Microsemi.

A vertical column of logos for security and network companies, each accompanied by a blue star-shaped badge containing the text 'No. 1'. The logos are: FireEye, CROWDSTRIKE, McAfee (Together is power.), IMPERVA, and radware.

A vertical column of logos for cloud and network security companies, each accompanied by a blue star-shaped badge containing the text 'No. 1'. The logos are: splunk, Symantec, and Barracuda.

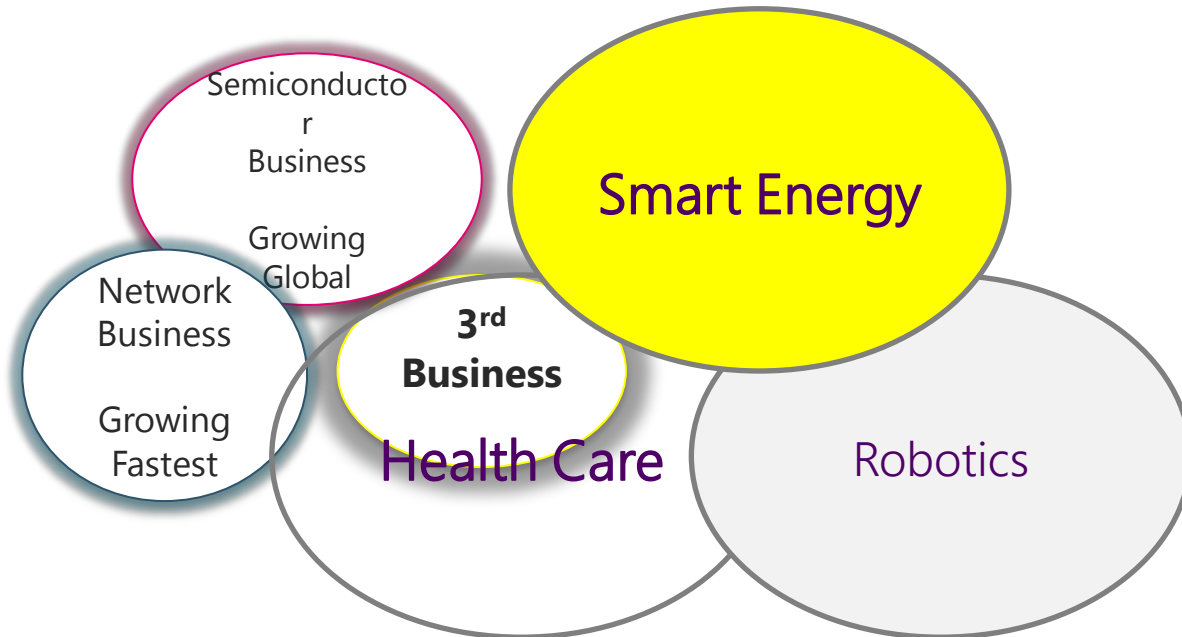


MACNICA

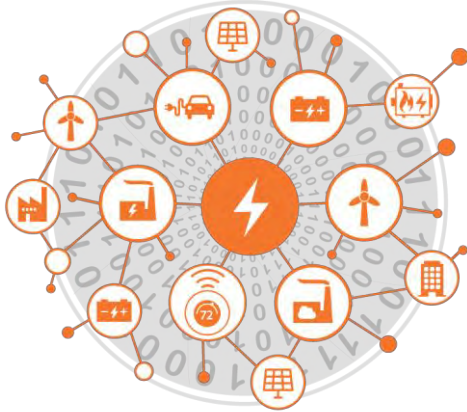
Our New Target

• Aiming High to turn out 3rd pillar business

- Vision: To Change Future Scenery with Tecnology Innovation



AutoGrid: The Leader in Energy Internet Software

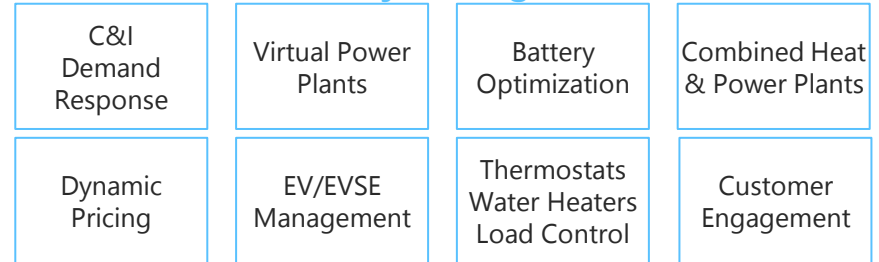


AutoGrid: Unique Capabilities

- Industry's first truly unified platform for optimizing all DER assets
- Advanced analytics scaling to millions of assets
- Open, modular, cloud-based architecture for rapid deployment
- Proven track record: **2.4GW** under contract globally

The Killer App for the Energy Internet:

Flexibility Management



Big Data
A.I.

AutoGrid
Energy Internet Platform

Cloud
Deployment

Possible use cases in Japan

- Existing Capacity Markets: 1A, 1B & 1'
- Future ancillary service markets: 10 sec response
- CAPEX optimization on the distribution grid
- Smart Municipalities

APAC deployment: DERMS PoC with DR and Storage



Demand Side Management with Large Asia Pacific Utility

Profile

- Pan-Asian Energy company with 5.2M customers across Mainland China, India, Southeast Asia, Taiwan and Australia
- One of the largest investor-owned power business in Asia Pacific with market cap of US\$ 25 billion, Global 150

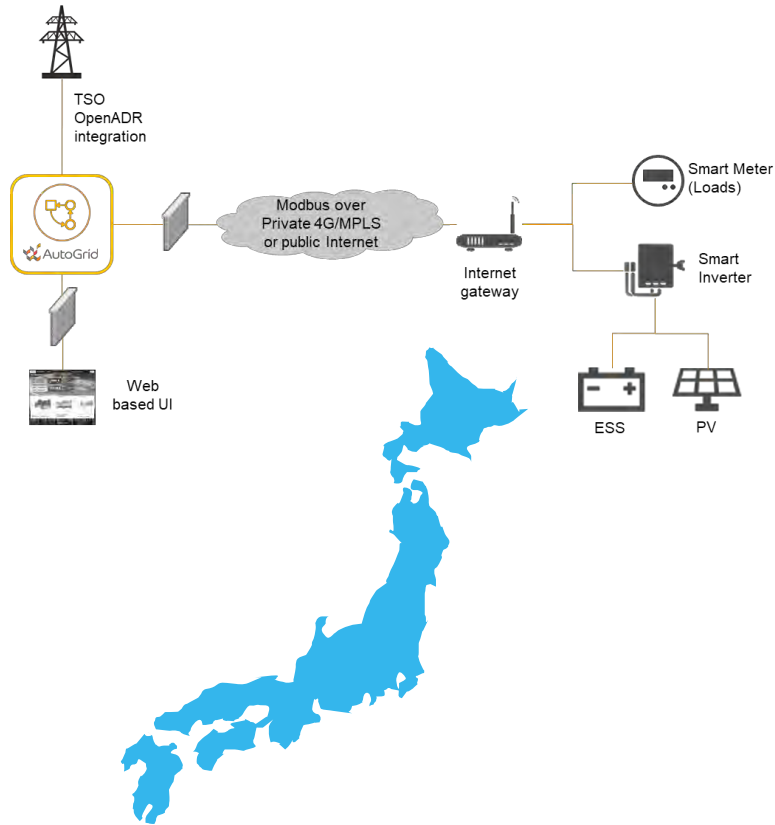
Problem

- Need to rationalize CAPEX on distribution network upgrades
- Lack tools necessary to address localized capacity constraints with behind the meter DERs and DR resources.

Solution: AutoGrid DERMS

- Deployment of DROMS as an application onto a 3rd party Energy data platform
- Transformer level load forecast and targeted dispatch of DR and ESS

APAC deployment : Cutting-Edge VPP in Japan



Hardware Agnostic Solar + Storage VPP for Residential Market

Profile

- Partner #1: Major Japanese trading company. Owns and operates 5GW of generating capacity and 1,000 km of transmission
- Partner #2: Major Japanese electricity company serving to 10M+ customers

Problem

- Expiring PV FiT will boost residential ESS deployments
- Aims to leverage customer' s assets into Japan' s nascent capacity market through VPPs.

Solution: AutoGrid VPP

- Aggregation of multiple ESS vendors on one monitoring and control platform including Murata, Panasonic and Kyocera
- Part of cutting-edge VPP encompassing all flexibility resources with full deployment in 2019

*ICT and Big Data in Smart Cities:
Role of Universities*

Data Science Creates the Smart Future

Hidefumi IMURA
Advisor to the President,
Yokohama City University



Role of Data Scientists



Solution oriented thinking

- Understand the problem
- Systems thinking
- Propose solutions

Data science

- IT, AI, Computer,.....
- Statistics, Mathematics,

Data engineering

- Visualization of what we cannot see
- Extract meaningful data from the flood of information

Data Science Education

The first student enrolment:
April, 2018

- Multidisciplinary Approach
- Insight to see what is behind the big data
- Wide range of application: smart urbanization, medicine, tourism, disaster prevention, marketing, etc.
- Capacity to work in the global business environment







INTELLIGENT AND SMART CITIES

Mr Wan Junaidy Bin Yahaya
Director Of Corporate And International Affairs Department
Municipal Council Of Seberang Perai, Penang, Malaysia

27 October 2017 (Intercontinental Yokohama Grand Hotel)



KEYS FOR BEING INTELLIGENT & SMART CITIES

VISION

- Shared
- Understood
- Subscribed by all citizens

ENTREPRENEURSHIP

- Creative individual & organization
- Can gather, grow and thrive

SPECIALIZATION

- Every city or town should know their strength & challenges

SOCIAL COHESION

- Bottom up imperative of reconstituting the public interest

GOOD GOVERNANCE

- Competency
- Accountability
- Transparency

SMART SYSTEM

- Enhance in Technology

“A city belongs to the People and the people belongs to the city”

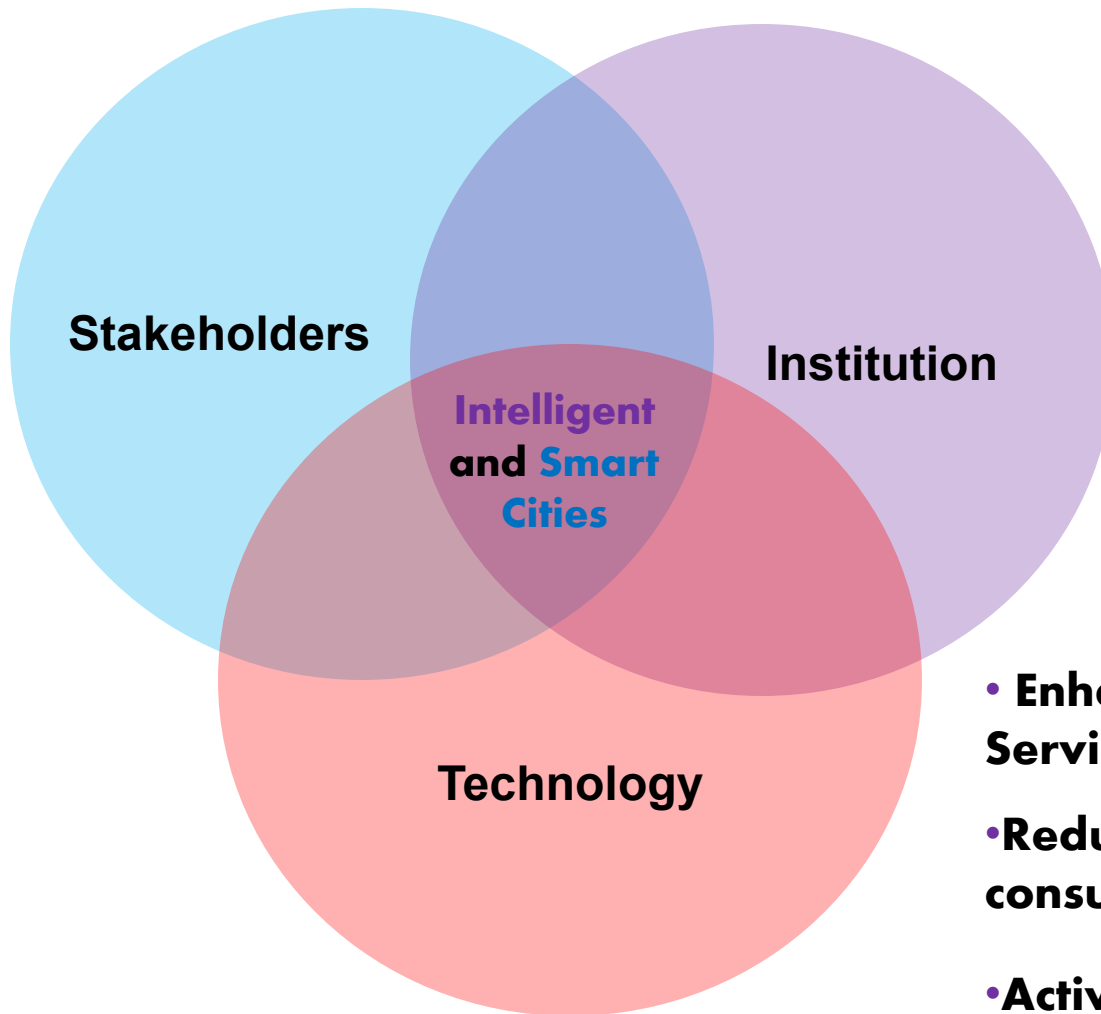
MPSP has developed strategic plan (2014-2018). Our main focus is to achieve the plan and through Good Governance:

- ***Competency, Accountability & Transparency (C.A.T.)***
- ***Cleaner, Greener, Safer & Healthier Seberang Perai – Local Action 21 programmes with communities and residents***
- ***Gender Responsive Participatory Budgeting (GRPB)- Focusing on gender and disability needs***
- ***Smart City – Enhance technology system to improve MPSP services***

MPSP SMART City Management Tools

- ◎ Smart Monitoring System
- ◎ Citizen Application Technology (CAT)
<http://cat.betterpg.com/v2/>
- ◎ e- complaints
- ◎ CCTVs
- ◎ Gender Responsive Participatory Budgeting
- ◎ Participatory Planning
- ◎ Big Data Analytics
- ◎ e- licensing
- ◎ e- building
- ◎ e- gotong-royong
- ◎ e- court
- ◎ e- recruit
- ◎ **SPGIS** (*Seberang Perai Geographic Information System*)
- ◎ e-osc
- ◎ e- filing
- ◎ e- letters
- ◎ e- audit
- ◎ **Murninets** (*Sustainability purpose*)

Intelligent and Smart Cities



- **Enhance quality of Urban Services**
- **Reduce Cost, resources, and consumption**
- **Active citizen engagement**