

IoT Acceleration Lab  
(Advance Project Acceleration WG)

IoT Support Committee (6th Meeting)

Agenda

Date & Time: March, 2018 (by email)

Proceedings: Revision of the Advanced Project Acceleration  
Working Group (NexGen IoT Acceleration Lab)  
Memorandum

[Handouts]

Material #1: Advance Project Acceleration WG (IoT Acceleration Lab) Memorandum  
(The Comparative Table of the Revised Version and the Prior Version)

Material #2: Activity Report and Future Action Plans of IoT Acceleration Lab

Reference Material #1: Activity Report of IoT Acceleration Lab

Reference Material #2: 6th IoT Lab Selection Lists of projects to be supported



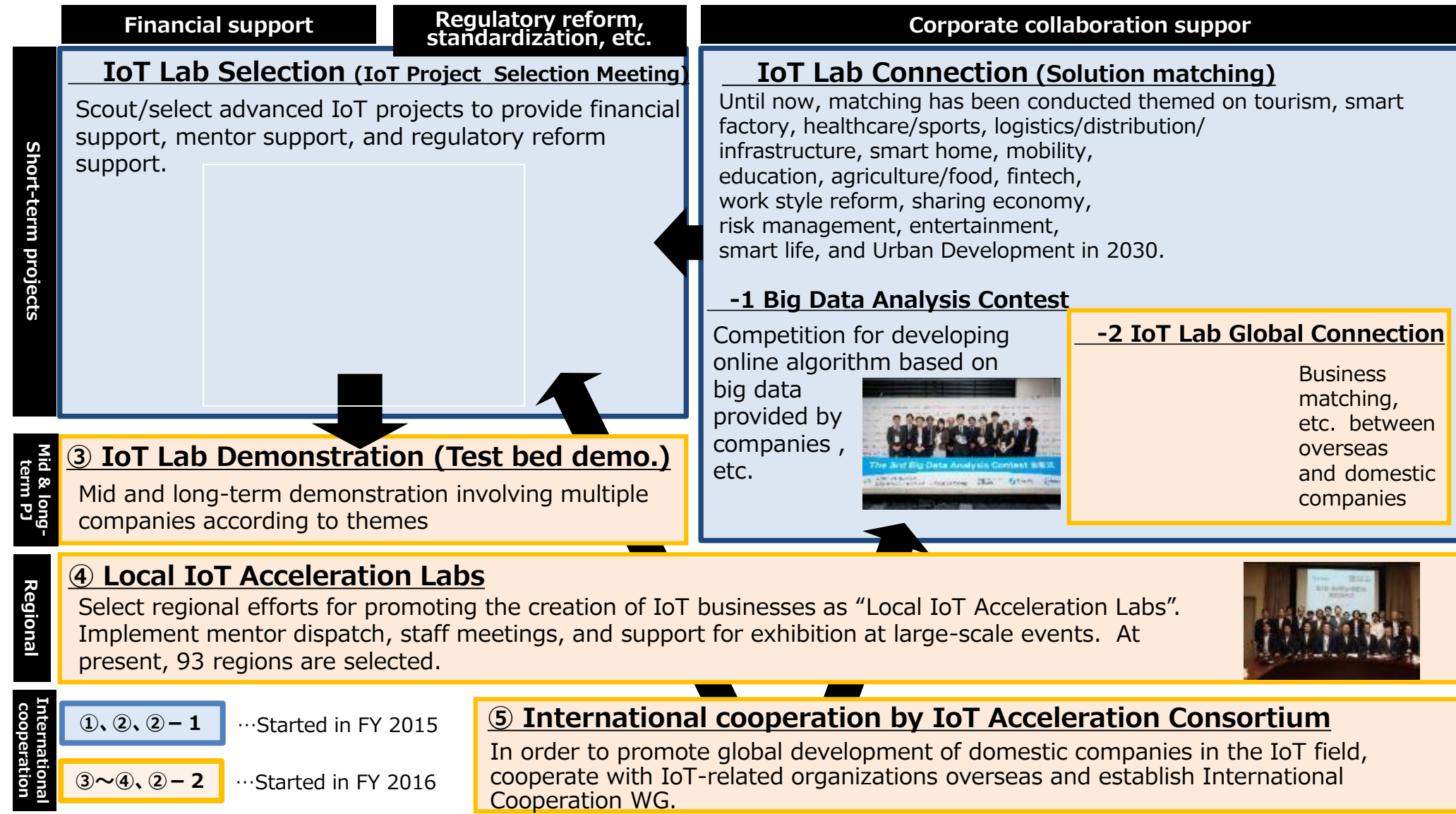






# Activities of IoT Acceleration Lab (Outline)

- In order to create new IoT business models, and discover/develop IoT platform creators as a driving force for new growth, the IoT Acceleration Lab aims to provide short term project support and business matching, and also expand activities to mid and long-term project support and regional/global collaboration, linking them organically.



## ① IoT Lab Selection

February 27, 2019 Public invitation for 6th IoT Project Selection Meeting

\* Underlined red letters represent events held after 5th Support Committee Meeting.

## ② IoT Lab Connection

September 18, 2018 7th matching event [Theme: smart life]

February 27, 2019 8th matching event [Theme: Urban Development in 2030]

### ②-1 Big Data Analysis Contest

February 27, 2019 4th Award Ceremony (Subject: )

### ②-2 IoT Lab Global Connection

October 16, 2018 Business matching, etc. [ASEAN, EU, India, Israel and Russia] (jointly with CEATEC)

## ③ IoT Lab Demonstration

### [FY 2018 Demonstration]

February 2018 - Started public invitation/demonstration for Tourism field

March 2018 - Started public invitation/demonstration for Smart home field

May 2018 - Started public invitation/demonstration for Distribution field (electronic tag, trade procedure)

Start public invitation/demonstration for Infrastructure field (thermal power generation, hydroelectric power generation)

\*Regarding Infrastructure field (water supply and sewerage), Industrial safety field, and Airplane field/Automated driving field, demonstration has been implemented since last fiscal year.

## ④ Local IoT Acceleration Labs

[Selection of regions] September 7, 2018 Announcement of 4<sup>th</sup> Selection results

- In order to discover and help commercialize advanced IoT projects, government agencies, private financial institutions and venture capitals, etc. work together and implement **(1) Financial support, (2) Continuous one-on-one Mentor support from mentors, and (3) Support for regulatory reform and standardization.** Up to now, **49 advanced projects have been selected and supported** through five Advanced IoT Project Selection Meetings.
- In the 6th Meeting, **5 advanced project was selected for finalists.** In addition, "Regional Revitalization Awards" and "Intrapreneur Awards" are set and awarded one project for each.
  - ① Regional Revitalization Awards: projects contributing to resolving regional problems and the revitalization of regional economy
  - ② Intrapreneur Awards: projects involving those who promote innovation by utilizing human resources, technologies, know-how, etc. hidden in existing organizations

★Grand Prize★  
**Hinata Designs Inc.**

- **Product recommendation service using size and purchase data** -  
Construct a platform for the utilization of content based on size. For example, the product images of ECs such as **clothing and home appliances can be seen in real size on the AR**, allowing users to check compatibility of products with themselves or their rooms before purchasing products. We aim **to provide services that recommend products that match user needs.**



★Second Prize★  
**Novars Inc.**

- **Battery-operated IoT "MaBee" for facilitating IoT product development** -  
The dry battery type IoT "MaBee" was developed aiming for a world that makes use of IoT more. It realizes **remote control of products using batteries and visualization of the state of use of batteries in the cloud.** In the future, we will make use of patents for battery communication, and aim for a world that does not have to worry about battery running out even when IoT is overflowing



★Regional Revitalization Award★  
**NTT East Corporation**

**Agri-Innovation Lab @Yamanashi City**  
- **Reinvigoration of regional industry by implementing IoT society** -  
Launch a public-private partnership consisting of Yamanashi City, JA Fruit Yamanashi, Synaptech, and NTT East as the main members, install IoT sensors in the agricultural field in Yamanashi City, where agriculture is the main industry, in the aim to form an infrastructure for realizing "sustainable society" and "profitable agriculture".



★Intrapreneur Award★  
**SB Innoventure Corp.**

- **conect+project** -  
Developed the "conect+" app & cloud service that enables anyone who wants to start IoT to easily create IoT apps. Provide a service allowing planning developers who want to enrich the society with IoT to develop functional and beautiful IoT applications without programming and design skills.





## 6th Selection Finalists

Applicant	Name of the Project
★Grand Prize★ Hinata Designs Inc.	Product recommend service using size and purchase data
★Second Prize★ Novars Inc.	Dry battery IoT “MaBeee” for facilitating IoT product development
Z-Works Inc.	“Ganbaranai Kaigo” QoL maintenance and enhancement support system
Singular Perturbations	World’s highest precision crime prediction system Crime Nabi : Aiming to be control tower of IoT terminals.
Hachi Tama Inc.	Cat toilet supporting early discovery of urinary diseases

## Special Award Project

Applicant	Name of the Project
★Regional Revitalization Award★ NTT East Corporation	Measures for regional revitalization by “Agri Innovation Lab @Yamanashi City”
★Intrapreneur Award★ SB Innoventure Corp.	conect+ project

- The **matching event** for member companies, organizations and municipalities with seeds and needs is held as **a place where enterprises aiming to create new business models meet with other enterprises with related business models, technologies/services, etc.**
- Past thematic events include "Tourism" and "Manufacturing" (1st), "Healthcare (Medical Care & Health)/Sports" and "Logistics/Distribution/Infrastructure" (2nd), "Smart Home" and "Mobility" (3rd), "Fintech," "Education" and "Agriculture/Food" (4th), "Work Style Reform" and "Sharing Economy" (5th), and "Risk Management," "Entertainment" and "AI" (6th), and "Smart Life" (7th), leading to **about 3,400** matching.
- The 8th event was developed from the theme of the 7th, and **441 matchings** were set under the theme of "**Urban Development in 2030**," to discuss on the ideal way of smart life in "City," which is broad and involving a large number of people. In addition to the retail tech fields, where the AI and IoT are utilized, opinions were exchanged about the future life from the perspective of the sharing economy, etc.

## Details of 8th Event

Date: Wednesday, February 27, 2019, 10:00-18:00  
Venue: Tokyo (Bellesalle Shinjuku Grand)  
Co-hosts: IoT Acceleration Lab, METI, and NEDO  
Theme: Urban Development in 2030

### ① Business Matching (1:1 Matching)



Based on the needs and seeds submitted by companies, **a list of matching companies was prepared prior to the event. 20-minute individual sessions** were held on the day.

**120** companies/organizations/  
municipalities participated.  
**441** matching were carried out.

### ② Presentation Matching (1:N Matching)



**Popular matching companies, etc.** made **presentations** on their seeds and needs.

**8** companies made presentations.  
**Approx. 260** people participated.

[Presenter companies]  
Fashion Pocket Co., Ltd.  
MIKAWAY 21 Inc., Coconet Co., Ltd.  
Cocon Inc.,  
Sumitomo Mitsui Auto Service Co., Ltd.  
INSIGHT LAB Inc., WOTA Corp.  
Babydoor Inc.

### ③ Booth Exhibition (1:N Matching)



**Local IoT Acceleration Labs (9 regions) set up booths.**

Meetings were immediately arranged with the companies/organizations who showed interest in them.

[Exhibitors]  
Akita Horizontal Collaboration Lab,  
Yokohama City Lab, Sagami City Lab,  
Yamanashi Prefecture Lab, Ina City Lab,  
Fujieda City Lab, Kochi Prefecture Lab,  
Shimabara City Lab, Kitakyushu City Lab

No. of times	Date	Themes	No. of participating groups	(Average value of questionnaire survey results)		
				No. of companies interacted per participant	No. of companies up for future interactions	
1st	January 28, 2016	Tourism, Manufacturing (Smart factory)	190	550	10.6	3.6
2nd	July 31, 2016	Healthcare (Medical care/Health)/Sports, Logistics/Distribution/Infrastructure	183	518	6.8	3.4
3rd	October 4, 2016	Smart home/Mobility	135	454	6.8	3.0
4th	March 13, 2017	Fintech, Education, Agriculture (Food)	131	461	7.5	2.8
5th	July 25, 2017	Work style reform/Sharing economy	139	534	7.5	2.9
6th	March 6, 2018	Entertainment, Risk management, AI	173	573	7.9	3.1
7th	September 18, 2018	Smart life	108	352	7.2	2.9
8th	February 27, 2019	Urban Development in 2030	120	441	8.0	3.4
Total of 1st-8th	—	—	Approx. <b>1179</b>	<b>3883</b>	<b>7.8</b>	<b>3.1</b>

- **With the aim of competing on the accuracy of data analysis of the challenges/Big Data provided by the industrial world, etc., Algorithm development contest is** held in an easy-to-join online style. By inviting public participation including students, the contest aims to discover/train excellent data scientists, matching them with data providers, etc.
- For the 4th contest themed on **infrastructure maintenance and railways**, JR East Railways provided data. Based on time series data of deformation amount of rails and information from equipment ledgers, etc., the “future deformation amount,” which is useful for the maintenance planning, can be predicted.
- In **New Idea Category**, Participants set the own topics to analyze based on the theme of the railways, and **evaluated a series of data analysis skills as a whole** to conduct data collection, analysis, and explanation through infographics.
- In addition to the award ceremony at the IoT Acceleration Lab joint event, a friendly meeting was held on the same day as a place for information exchange and mingling with prize winners.

**Hosted by:** IoT Acceleration Lab, METI, New Energy and Industrial Technology Development Organization (NEDO)  
**Supported by:** Ministry of Education, Culture, Sports, Science and Technology, Ministry of Land, Infrastructure, Transport and Tourism, Inframentenance Kokumin Kaigi, Center for Artificial Intelligence Research, University of Tsukuba  
**Cooperated by:** East Japan Railway Company, NTT DOCOMO INC., Kyocera Corp., SAKURA Internet Inc., JR Souken Information Systems Co. Ltd., JR East Information Systems Company, Tableau Japan, Japan Railway Track Technology Consultants Co. Ltd., Panasonic Corporation, Hitachi Ltd., and Mitsubishi Electric Corporation  
**Planning and operation:** SIGNATE Inc.  
**No. of participants:** **192** (Projection Category: 163, Infographic Category: 29) **No. of applications:** **2,007** (multiple application allowed)  
 The 4th contest dedicated website <https://signate.jp/competitions/136> **Implementation term:** Oct. 1, 2018–Jan. 10, 2019

## Projection Category

Predict deformation amount in prediction period (about 3 months) from deformation amount of rails in about one year.

### Monitoring Device

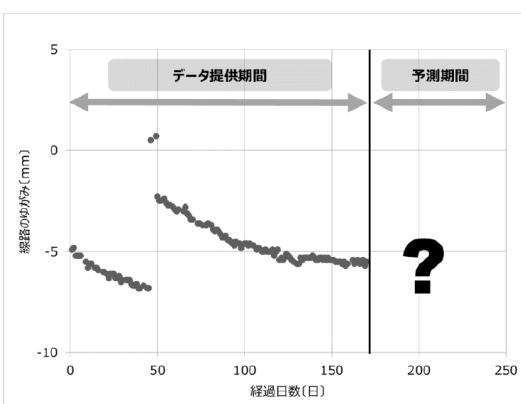


列車への取付状態



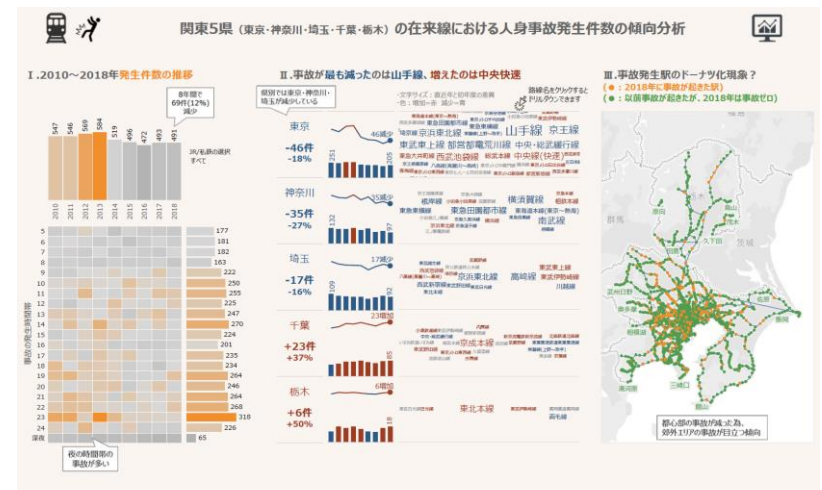
装置拡大写真

### Image of Prediction



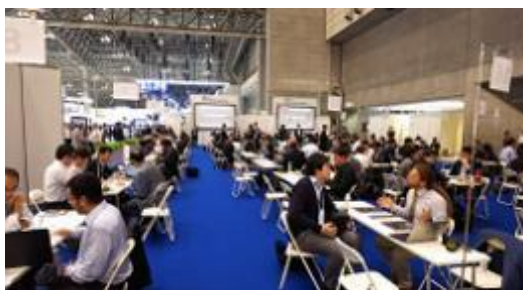
## New Idea Category

Awarded work (Example) : Except from “Analysis of trends of number of personal accidents in Kanto”



- To promote business collaboration between Japanese companies and overseas companies (start-ups) and global expansion, invite 40 startups from India, Israel, SEAN, EU, Russia, to carry out business matching with Japanese companies at CEATEC.
- Provide exhibition booths and pitching session opportunities to overseas start-ups inside the CEATEC venue.

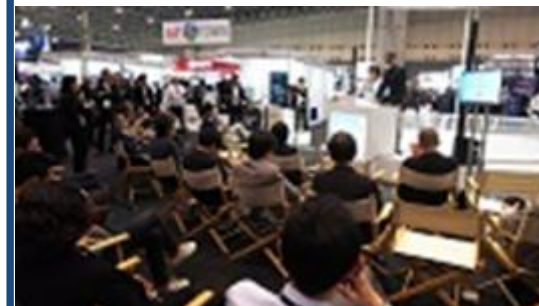
### ① Business Matching (1 : 1 Matching)



A matching list of overseas/domestic companies based on their seeds/needs was prepared beforehand, **leading to 25-minute individual matching.**

**46** domestic companies/organizations participated.  
**247** matching organized.

### ③ Pitching Session



Briefing of out by specialists of business from various countries/regions.

**Pitching by overseas start-ups to appeal own technologies**

### ② Exhibition Booth



**40 overseas companies set up exhibition booths.**

Tour by high-level guests of related ministries including Minister of METI Mr. Seko

Date : Tuesday October 16 to Friday October 19, 2018

Place : Makuhari Messe (Hall 4) Special Theme Area  
IoT Acceleration Lab Business Matching venue

**No. of participating companies: 40 overseas companies and 46 Japanese companies**

(Reference : Participated by 40 overseas companies and 58 Japanese companies last year)