

SHAPING THE FUTURE WITH "TSUNAGU" TECHNOLOGY.

# FUJIKURA NEWS

INFORMATION

## Fujikura Social Health Research Institute Ltd. Established To Lead Health Management To Take Next Step



Fujikura's health management, which started its activity in earnest in 2013, has celebrated its seventh anniversary this year. Over these years, we have been committed to taking various measures to enhance employees' awareness of their health by introducing a body composition monitor and tonometer and visualizing vital data in real time and change their activities by holding companywide step-making events. If the goal of first stage of health management is set to have employees get interested in their body condition and keep fit and improve their health and learn more about it, a certain level of achievement was realized. On the other hand, the findings involve new challenges such as employees who are not interested in health and the need of being considerate of local features of the group companies throughout Japan.

Considering this, Fujikura Social Health Research Institute Ltd. was established in April 2019. This institute aims to perform new second-stage health management where employees readily share various information and experience in the areas that they are good at to enhance their health, or

employees or group companies can create mutual relations. Fujikura Social Health Research Institute Ltd. has developed a modern participatory platform where each group company's unique measures as well as the visualization of vital data can be shared. In addition, this institute provides consultancy related to health management for each group company, aiming to create a healthy society starting with each local area by becoming a leading company of health management in each region. Such initiative conducted by the Fujikura Group as a whole will contribute to the materialization and progress of a world-standard healthy society that goes along with the SDGs (Sustainable Development Goals).





# Fujikura's Attempt To Construct IoT Cloud & Sell Things

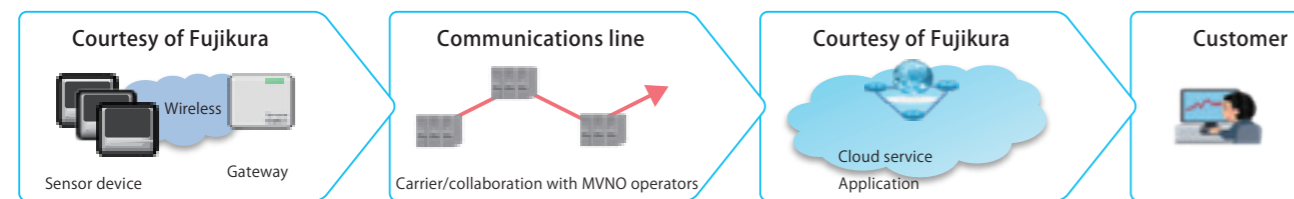
## 1 Overview

From selling products to selling services

We manufacture and sell energy-harvesting sensor systems powered by DSCs (dye-sensitized solar cells) that generate power at a high efficiency in low light such as that indoors and outdoors in shade. These sensor systems are characterized by wireless power supply and communication in wide-range sensing and no battery replacement cost by using

LoRaWANTM, a LPWA wireless technology.

As a further attempt, we have been constructing our own IoT Cloud to provide services in different areas of the Cloud and one-stop solution services from the sensor node terminal to the Cloud application. Through our technology, we will promote our services that can directly solve customers' problems.



## 2 Project with NTT WEST

NTT WEST Kyushu Carries Out Heatstroke Prevention Trial by Applying IoT

NTT WEST Regional Headquarters Kyushu has tried a system visualizing WBGT (wet bulb globe temperature) values for heatstroke prevention at Fukuoka Branch and Kumamoto Branch. In these trials, sensor nodes to measure WBGT values were placed at NTT New Hakata Building, Hie Building in Fukuoka, and NTT Sakuramachi Building in Kumamoto. The WBGT values in these places were measured in real time and displayed on PCs or monitors through Cloud.

We consider this system as means to contribute to our customers' raising awareness of heatstroke and calling their attention to it while thinking that this attempt will lead to new

business. We will continue to contribute to solving various social challenges by providing IoT-driven visualization solutions along with the simplification of construction and maintenance using the sensor system that uses DSCs as the key device.



● Sensor node set at one of the locations

● Demonstration at Smart Optical Square Kumamoto, Kumamoto Branch, NTT WEST



## 3 Exhibition: Sensor System

Exhibition: Sensor System Introduction to The 6th Mass-Trans Innovation Japan

**Dates** November 27 (Wed) to 29 (Fri), 2019  
10:00 a.m.-5:00 p.m.

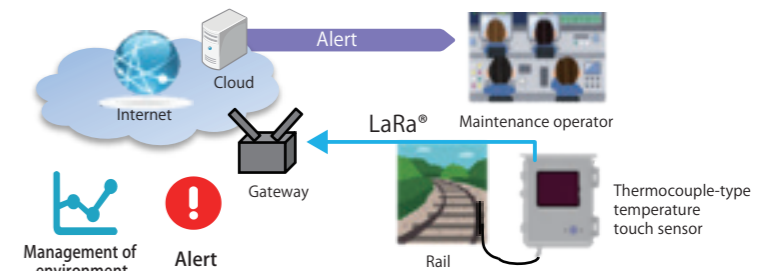
**Venue** Hall 7, Makuhari Messe  
Fujikura Booth K-27

Fujikura is going to join The 6th Mass-Trans Innovation Japan to be held from November 27 to 29 at Makuhari Messe. Mass-Trans Innovation Japan is a comprehensive exhibition that gathers all the technologies in railroad areas, including railroad and transportation systems, infrastructure, facilities, electric power, transportation, schedule management,



carriages, interior, and services for passengers.

Our booth will show an application of a DSC-powered IoT sensing device, specifically for railroad infrastructure, to monitor temperatures of rails.



● Example application: Railroad temperature monitoring system

- LaRa®WANTM is a trademark of Semtech
- LaRa® is a trademark of Semtech

## 4 Exhibition: Dye-sensitized Solar Cell

Fujikura Participates in ID TechEx Show

We will be co-exhibiting with Fujikura Kasei Co., Ltd. at IDTechEx Show! to be held in California, USA, on Wednesday November 20 and Thursday 21, 2019.

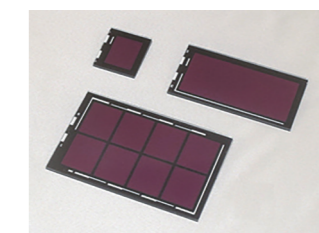
Our exhibits include DSCs suitable for energy-harvesting

power supply for IoT devices and DSC power supply modules combining DSC with power management circuits and a power charging device.

We sincerely look forward to seeing you there.



● Appearance of Santa Clara Convention Center, California



● Dye-sensitized solar cell

**Automotive Products** **The 17th Formula SAE Japan**



The 17th Formula SAE Japan was held in Iwata City, Shizuoka Prefecture, from August 27 to 31.

Fujikura has been a sponsor of this event for 4 years in a row. At our corporate booth, mass-produced wire harnesses and high-voltage electric wires were on display. We had visitors more than twice that of last year and some technical questions about wire harnesses from students, which made this year's event special to us. The event was so meaningful since we were able to have our company's attraction learned by many students.



For inquiries [automotive@jp.fujikura.com](mailto:automotive@jp.fujikura.com)

**Information** **Selected as a constituent of the global ESG Investment Index (FTSE) this year too**

We are selected for the third consecutive year for the FTSE4Good Index Series and the FTSE Blossom Japan Index, which are global indices of ESG (Environment, Social, Governance) investment.

Designed by FTSE Russel, which is a wholly owned subsidiary of the London Stock Exchange and global leading company in the construction and management of ESG indices, constituents of the FTSE4Good Index Series, a global investment index, comprise companies demonstrating strong ESG practices. It is widely used for creating and evaluating investment funds and financial instruments that focus on ESG. In addition, the FTSE Blossom Japan Index specializes in selecting Japanese companies with excellent performance in ESG practices. It is employed by the Government Pension Investment Fund (GPIF),

the world's largest Japanese pension management organization, for its ESG investments.

The Fujikura Group will further promote ESG with the aim of achieving both a sustainable society and continuous corporate development through "Tsunagu" Technology.



The Fujikura Group's ESG initiatives (integrated report) can be viewed at the following URL: <http://www.fujikura.co.jp/csr/index.html>

CSR Promotion Team [fjk.csr@jp.fujikura.com](mailto:fjk.csr@jp.fujikura.com)



"Tunagu" Technology New Product News No.460  
 1-5-1, Kiba, Koto-ku, Tokyo, Japan 135-8512  
 TEL. +81 (0) 3 5606 1112 FAX. +81 (0) 3 5606 1501  
 Issue : November 2019, No. 460 Editor in Chief : Tomoharu Morimoto  
<http://www.fujikura.co.jp>

Market Research & Planning Department	+81(0)3 5606 1092
Kansai Office	+81(0)6 6364 0373
Chubu Office	+81(0)52 212 1880
Tohoku Office	+81(0)22 266 3344
Kyushu Office	+81(0)92 291 6126