

Forecast of Number of IoT Sensor Systems: Key Research Findings 2017

◆ Research Outline

Yano Research Institute has conducted a study on the domestic IoT sensor system market with the following conditions:

1. Research period: From March to June, 2017
2. Research targets: IT vendors/Slers, telecommunication businesses, device makers, public R&D institutions, user companies, etc.
3. Research methodologies: Face-to-face interviews by the expert researchers, surveys via telephone/email, and literature research

What are IoT Sensor Systems?

IoT sensor systems in this research indicate those cloud-type sensor network systems, including those retrofitted types with master/slave structure (a transmitter playing the role of a master, and multiple sensor nodes playing the role of slaves,) and those embedded types (embedded in advance within production facilities, heavy machinery, construction machines, vending machines, vehicles, and etc.) Also, those not only wireless, but those using wired communication lines are also included. However, the followings are not included: Standalone types composed of only sensors and data loggers, smart devices including smartphones, and RFID (Radio Frequency Identification) systems.

Reference: "Forecast Number of Wireless Sensor Network Systems in Japan: Key Research Findings 2016" released by Yano Research Institute on July 15, 2016.

◆ Key Findings

■ IoT Sensor System Market in FY2016 Grew by 6.7% to Achieve 1,096 Thousand Systems on Y-to-Y Basis

The domestic IoT sensor system market, based on the number of the systems installed at end users, has increased to 1,096 thousand systems in FY2016, a rise by 6.7% on year-over-year basis. The market expansion in FY2016 was due in part to favorable number of installations of sensor systems that use M2M as communication lines. In addition, increased business of MVNO has brought about diversification in application of the sensor systems, which have also contributed to the market expansion.

■ 98% of IoT Sensor Systems Installed Occupied by 3 Sectors (Security, Automobiles, and Energy)

When looking at the size of IoT sensor system market by sector in FY2016 (the number of the systems installed by sector), the security sector occupies 46.0%, while the automobile sector accounts for 36.5%, and the energy 16.1%, indicating total 98.6% of IoT sensor systems are installed predominantly at those three sectors.

■ Promising Sectors for IoT Sensor Systems to Increase Installation are Factories/Manufacturing

In the sector of factories/manufacturing, some sensors have already been installed at production facilities/devices and utilities. Nevertheless, use of the data collected through sensors is limited, for instance just to report in a journal. To overcome this situation, there have been some attempts to introduce IoT at factory sites in recent years aiming to systematize a process flow from data collection, aggregation, to analysis. Utilization of IoT sensor systems is especially prospected in such tasks as energy monitoring, conservation/maintenance, and quality control.

◆ Report Format:

Published report: “2017 Sensor Network in IoT Era”

Issued on: June 28, 2017

Language: Japanese

Format: 167 pages in A4 format

Price: 180,000 yen (The consumption tax shall additionally be charged for the sales in Japan.)

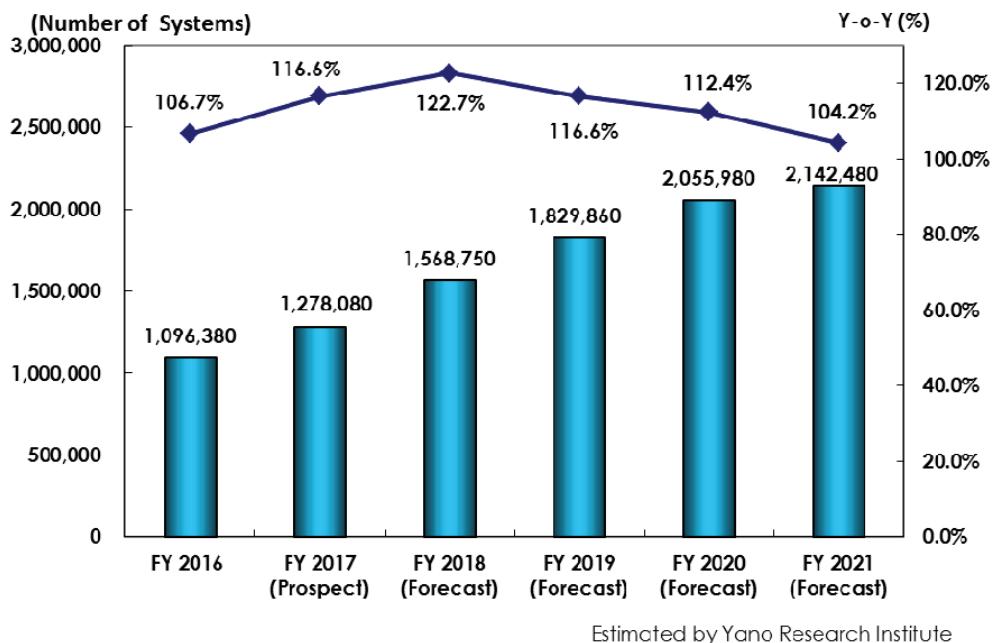
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■ Figure 1: Forecast of Domestic IoT Sensor System Market



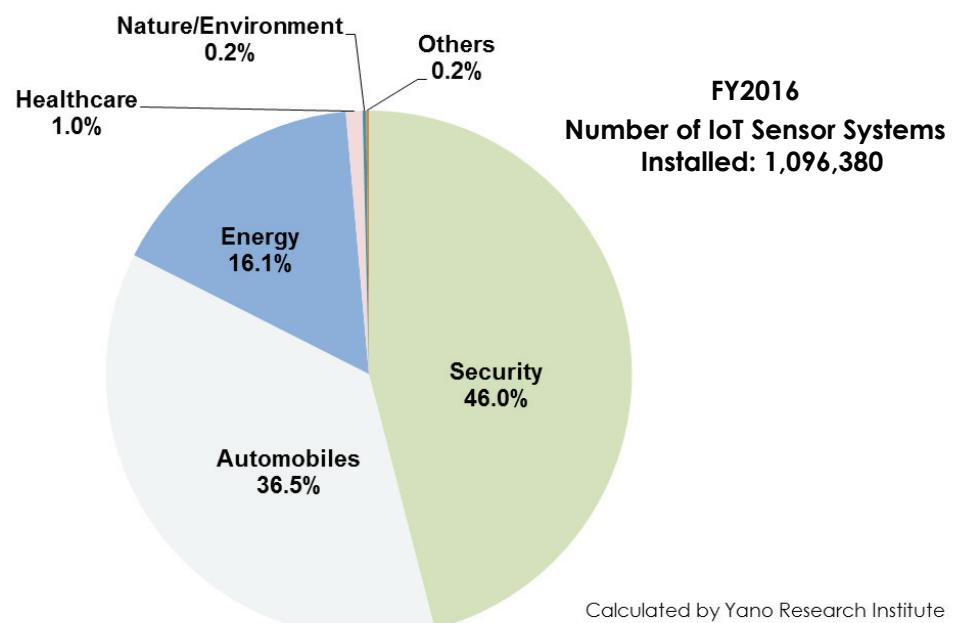
Estimated by Yano Research Institute

Notes:

1. IoT sensor systems in this research indicate those cloud-type sensor network systems, including those retrofitted types with master/slave structure (a transmitter playing the role of a master, and multiple sensor nodes playing the role of slaves,) and those embedded types (embedded in advance within production facilities, heavy machinery, construction machines, vending machines, vehicles, and etc.) Also, those not only wireless, but those using wired communication lines are also included. However, the followings are not included: Standalone types composed of only sensors and data loggers, smart devices including smartphones, and RFID (Radio Frequency Identification) systems.
2. The market is based on the number of the systems installed at end users.

Reference: “Forecast Number of Wireless Sensor Network Systems in Japan: Key Research Findings 2016” by Yano Research Institute.

■ **Figure 2: Component Ratio of FY2016 Domestic IoT Sensor Systems Installed by Sector**



Notes:

3. IoT sensor systems in this research indicate those cloud-type sensor network systems.
4. The market is based on the number of the systems installed at end users.