Socionext and SOINN Announce Joint Trial to Integrate SoC-Based Sensing Technology and Artificial Intelligence for IoT and Similar Applications

-- Brings "Artificial Brain SOINN" Together with Socionext's Advanced Medical IoT Solution --

Yokohama, August 31, 2016 --- Socionext Inc. and SOINN Inc. today announced that the companies have jointly started a trial on integrating SoC-based data sensing technology and artificial intelligence to develop solutions and new businesses. The first step of the trial is to have "Artificial Brain SOINN" learn data collected by "viewphii", Socionext's integrated medical IoT solution, and verify the result to provide better monitoring of health conditions and predictions of future risks.

Today, increasing numbers of solutions and services using AI are developing for Internet of Things applications, where huge amount of sensor data are integrated and utilized.

Socionext leverages its data sensing technology based on its System-on-Chip expertise, which enables the extraction of useful information out of sensor signals, and develops new products and solutions to improve users' qualify of experience. Artificial Brain SOINN is a self-learning, general-purpose artificial intelligence provided by SOINN Inc., featuring a unique learning algorithm that does not require huge amounts of data, powerful hardware, or lengthy learning periods. SOINN Inc. is now promoting new businesses utilizing Artificial Brain SOINN.

The companies will start a trial to develop solutions for new businesses, by integrating SoC-based sensing and self-learning algorithms. Socionext is in charge of extraction of valuable data using its SoC sensing technology, as well as development of IoT applications and implementation. SOINN carries out fine-tuning of its self-learning algorithm. As the first step of the trial, various biometric data obtained by Socionext's integrated medical IoT solution "viewphii", will be provided along with general health check results to conduct learning on Artificial Brain SOINN, and estimate current health conditions and future risks.

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"viewphii" delivers integration and management solutions for ultra-sound imaging, continuous blood pressure, and electro-cardiograph, among other data that are measured through completely cable-less, handheld mobile devices. Further development is underway to enable measurement of other biometric data. The learning on Artificial Brain SOINN will provide the opportunity to improve health condition monitoring and predict future risks with unprecedented accuracy in a short time with low cost. Completion of the analysis of the learning results and verification of effectiveness for this trial is scheduled in the end of October 2016.

Based on the outcome of this trial, SOINN will boost the improvement of its self-learning algorithm and accuracy for further evolution of Artificial Brain SOINN. Socionext will continue to establish new businesses, and promote new products and services through utilization of SoC-based sensing technology.

For more information about "viewphii", visit:
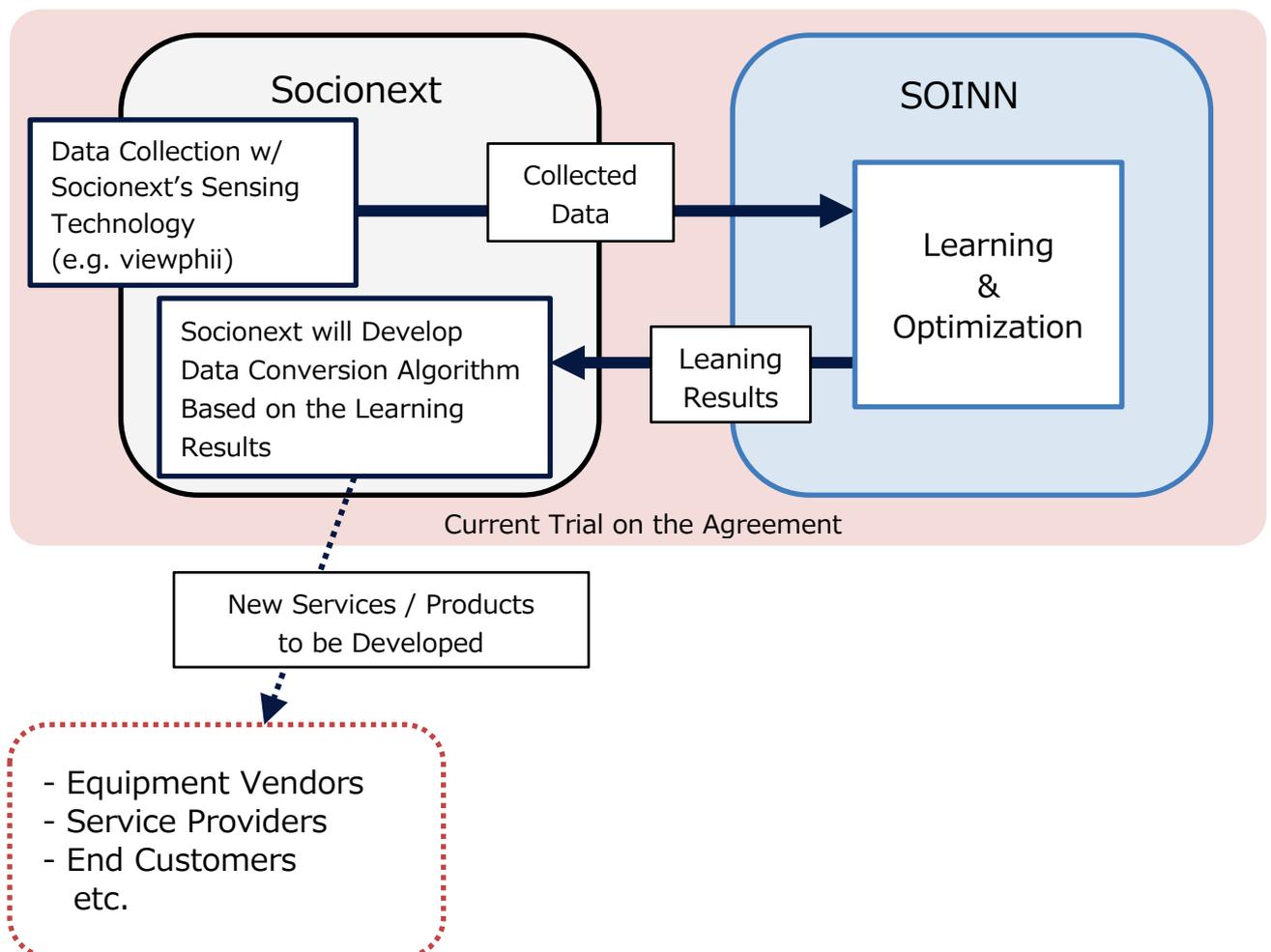http://www.socionext.com/en/products/assp/viewphii/

Figure 1. Collaboration of Socionext and SOINN

About Socionext Inc.

Socionext is a new, innovative enterprise that designs, develops and delivers System-on-Chip products to customers worldwide. The company is focused on imaging, networking, computing and other dynamic technologies that drive today's leading-edge applications. Socionext combines world-class expertise, experience, and an extensive IP portfolio to provide exceptional solutions and ensure a better quality of experience for customers. Founded in 2015, Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its product development and sales activities. For more information, visit socionext.com.

About SOINN Inc.

SOINN Inc. is a unique startup found by Associate Professor of Tokyo Institute of Technology which is one of top computer science university in Japan. We drive safe and efficient world with our innovative Machine Learning technologies. Our patent based, Artificial Brain "SOINN", enables machines to be autonomous and smart. Our cutting edge knowledge and skills get over many kinds of tasks like Deep Learning cannot achieve. Feature of SOINN, small CPU power/less training time/small training data sets, achieves smart IoT world.

SOINN=Self-Organizing Incremental Neural Network
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