



NTT DOCOMO ASIA Pte. Ltd.

*Joint Press Release—for immediate release*

## **Matsui MFG., DOCOMO and DOCOMO ASIA to Demonstrate Mobile-Connected IoT Platform for Plastic-Molding Manufacturing**

**TOKYO, JAPAN, November 15, 2017** --- Matsui MFG. Co., Ltd., NTT DOCOMO, INC. and NTT DOCOMO ASIA Pte. Ltd. announced today that they will launch a proof-of-concept demonstration of an IoT platform for plastic-molding operations using a mold-temperature controller equipped with sensors and connected to a mobile communications network, enabling production data to be sent to a cloud server for real-time processing. Beginning November 15, the demonstration will help to confirm system accuracy and related issues for an envisioned commercial solution, expected to be the world's first of its kind, for highly efficient plastic molding applications in Southeast Asia's fast-growing industries for automobiles, electrical appliances and other products.

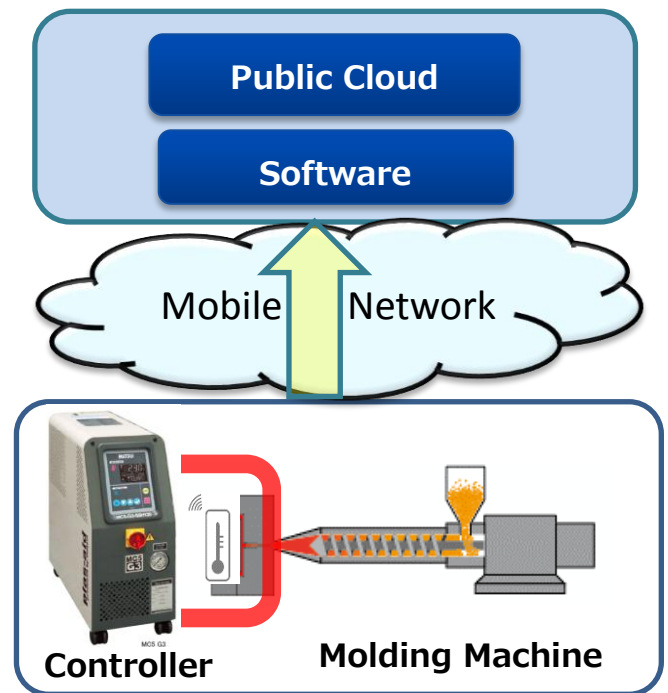
The solution will incorporate the use of a mobile-connected mold-temperature controller, built specially for the demonstration, at a plastic molding factory in Indonesia. The controller collects data via sensors and then communicates the data via a mobile network for real-time visualization and analysis. IoT-dedicated software will connect the sensors to a public cloud via a mobile network, or potentially a low-power wireless access (LWPA) system. Manufacturers are expected to use the platform to reduce machine downtime due to various malfunctions, prevent production defects and improve production processes.

Through the demonstration, the three partners will determine the possibilities of acquiring and visualizing data suitable for extra-efficient plastic-molding production. In the future, machine learning and artificial intelligence are expected to be incorporated in the platform for increasingly efficient production operations.

In preparation for an envisioned commercial launch, Matsui will continue to enhance its mold-temperature controller, sensors and related know-how, DOCOMO will develop practical IoT services for Southeast Asian industries and DOCOMO ASIA will continue to enhance the IoT-solution platform for deployment in Southeast Asia.

Factors such as mold-temperature control, screw speed, pressure, etc. greatly affect the quality of plastic molding, creating the need for high-precision IoT-based production platforms. The demand for plastics in Southeast Asia's manufacturing industry is expected to show robust growth due to factors including regional population growth, expanding operations by Japanese automotive, electric, and other manufacturers, and ongoing efforts to reduce product weights and production costs.

## Demonstration



Mobile-connected mold-temperature controller system

### **Matsui MFG Co. Ltd.**

Business: Rationalization of equipment for plastic molding, and manufacture and sales of systems (temperature controllers, resin dryers, conveyors, blenders, crusher & recycling machines, etc.)

HQ: OBP Plaza, 1-40-70 Shiromi, Chuo-ku, Osaka, Japan

President: Hironobu Matsui

Common stock: 200 million yen (year ending March 2017)

Consolidated sales: 20 billion yen (year ending March 2017)

Employees: 1,100 (consolidated, year ending March 2017)

### **NTT DOCOMO, INC.**

Business: Communication centered on mobile services, smart-life businesses such as animation and music distribution, e-books, etc.

HQ: Sanno Park Tower, 2-11-1 Nagata-cho, Chiyoda-ku, Tokyo, Japan

President and CEO: Kazuhiro Yoshizawa

Common stock: 949.7 billion yen (year ending March 2017)

Consolidated sales: 4,584.6 billion yen (year ending March 2017)

Employees: 26,734 (consolidated, year ending March 2017)

### **DOCOMO ASIA PTE LTD**

Business: Global ICT business and provision of mobile solutions for corporate customers.

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President & CEO: Naoya Saito

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**About Matsui**

Manufacturing and sales of plastics processing equipment and systems (molding-process temperature controllers, conveyors, mixers, crushers, recycling devices, etc.). Design, manufacturing, installation, repair and maintenance of plastics processing equipment and systems, factory automation system and components, and factory distribution system and components.

**About NTT DOCOMO**

NTT DOCOMO, Japan's leading mobile operator with over 75 million subscriptions, is one of the world's foremost contributors to 3G, 4G and 5G mobile network technologies. Beyond core communications services, DOCOMO is challenging new frontiers in collaboration with a growing number of entities ("+d" partners), creating exciting and convenient value-added services that change the way people live and work. Under a medium-term plan toward 2020 and beyond, DOCOMO is pioneering a leading-edge 5G network to facilitate innovative services that will amaze and inspire customers beyond their expectations. DOCOMO is listed on stock exchanges in Tokyo (9437) and New York (DCM). [www.nttdocomo.co.jp/english](http://www.nttdocomo.co.jp/english).

**About NTT DOCOMO ASIA**

NTT DOCOMO ASIA Pte. Ltd. (UEN number: 201228945N), a Singapore-based subsidiary of NTT DOCOMO, provides mobile solutions and conducts research aimed at developing new business opportunities in Singapore and neighboring countries in Asia. Based on shared values with NTT DOCOMO, NTT DOCOMO ASIA is challenging new frontiers in collaboration with business partners, by driving forward with global ICT-related solutions that change the way people work. For more information, please visit [http://www.docomo-asia.com/index\\_en.html](http://www.docomo-asia.com/index_en.html).