

Feature DX: Digital Transformations in Society



AGC

5G-Ready Private LTE Network at Chiba Plant

AGC obtained a wireless license in December 2020 to operate a private Broadband Wireless Access (BWA) network at its Chiba Plant from February 2021. The introduction of a private LTE network not only improves the efficiency of patrol monitoring and inspection work, but also makes it easier to refer to centralized data, enabling safer production. AGC is also developing wireless sensing technology in order to further utilize the private LTE network to improve plant data acquisition methods and analysis technologies. 5G networks will be installed at some plants by 2025, accelerating the shift of chemical plants to smart factories.



Private BWA base station with 30-meter antenna mast and wireless station terminal at the Chiba Plant



Smart glasses and other wireless digital devices also drive the DX of operator work.

https://www.agc.com/en/news/detail/1202009_2814.html



For more information about the Mitsubishi companies, see "mitsubishi.com"

■ <https://www.mitsubishi.com/en/>



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Mitsubishi UFJ Financial Group

Memorandum of Understanding with Thai Digital Economy Promotion Agency

Mitsubishi UFJ Financial Group (MUFG)'s banking subsidiary MUFG Bank, together with one of its partner banks, Krungsri (Bank of Ayudhya PCL),*¹ MUFG Innovation Partners (MUIP)*² and Krungsri Finnovate Co., Ltd.,*³ have signed a Memorandum of Understanding with Thailand's Digital Economy Promotion Agency (depa).*⁴ These Group companies will work with depa to support start-up companies in the digital transformation (DX) field in Japan and Thailand. Under the MoU, the parties will strengthen cooperation between start-up companies and DX-oriented companies through business matching events and seminars. They will also share challenges and seek DX-related solutions with business partners; expand investment candidates for Krungsri Finnovate and MUIP; and exchange on a regular basis DX-related information on ASEAN countries, including Japan and Thailand.

- *1 The fifth largest bank in Thailand, a MUFG Bank's consolidated subsidiary
- *2 A corporate venture capital fund to enable MUFG's Open Innovation strategy and a consolidated subsidiary of MUFG
- *3 A corporate venture capital subsidiary of Krungsri, located in Thailand
- *4 Established by virtue of the Digital Development for Economy and Society Act B.E. 2560 to take the role of a government agency to support and promote the development of digital industry and innovation in Thailand



A MoU signing ceremony was held online on October 6 (Photo from October 2021).

https://www.muftg.jp/dam/pressrelease/2021/pdf/news-20211006-001_en.pdf



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Tokio Marine & Nichido Fire Insurance

Accident Claims Process Receives Good Design Award 2021

Tokio Marine & Nichido Fire Insurance has received the Good Design Award 2021, run by the Japan Institute of Design Promotion, for its “safe and comfortable accident resolving process offering the best mix of human support and digital technology” service provided by the company’s claims payment division. In making the award, the Good Design Award jury commended the way this “best mix” of human and digital removes customer anxiety and stress by using various digital tools in a seamless accident resolution from beginning to end, rather than placing the focus simply on improving internal business efficiency.



Tokio Marine & Nichido Fire Insurance staff are now able to get closer to customers using a digital model to provide comfortable touchpoints.



The website features an online claims resolution process developed with Metromile, Inc.



Mr. Hideto Kato
Tokio Marine & Nichido Fire Insurance

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Mitsubishi Corporation New Tech Subsidiary Established

Mitsubishi Corporation (MC) has established a new, wholly owned tech subsidiary called MC Digital, Inc. (MC Digital), which will be dedicated to advancing its digital strategies. The new subsidiary will be relied on to promote the development of new services that leverage digital technologies, the main purpose of which will be to augment strategies conceived by those spearheading MC's latest business ventures. As necessary, MC Digital will also evaluate the advanced technologies of MC's partners when MC is considering alliances or M&As. The technical expertise gained through the development of services will be concentrated at MC Digital and applied to other industries that MC is engaged in. In this way, MC plans to accelerate its own digital transformation as efficiently and sustainably as possible.



©gettyimages

<https://www.mitsubishicorp.com/jp/en/pr/archive/2019/html/0000038794.html>



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Mitsubishi Monitor

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P.S. Mitsubishi Construction PSMAX Promotion Committee Gears Up to Improve Productivity

P.S. Mitsubishi Construction (PSM) has been engaging in the system development known as PSMAX meant to elevate the productivity of civil and architecture project productivity. This system however, was not developed separately for each individual department but instead designed to be a system that allows information sharing on the development of various types of technology across the board. For this purpose, PSM established the PSMAX Promotion Committee back in 2019. By implementing the latest ICT and AI, digitalization and automation processes can be integrated and improved simultaneously while allowing the system to be utilized by all PSM group members as a whole. With the future in mind, PSM shall swiftly promote and put the system into practice.

*Along with the aforementioned system development, PSM has also developed and started the implementation of automated measuring technologies as well as automated PC slab design and layout drawing systems.



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Tata Consultancy Services Japan

Helping Japan's Leading Home Improvement Retailer to Accelerate Digital Transformation

Tata Consultancy Services (TCS) and Cainz Corporation (Cainz), Japan's leading home improvement retailer, have formed a partnership to set up the Cainz Offshore Development Center in the TCS facility in Chennai, India. Cainz operates 226 stores across 28 prefectures nationwide, making it the largest home improvement retailer in Japan. As the retailer's strategic technology partner, TCS has supported Cainz in driving DX-related initiatives since 2019. At the Center, run under the leadership of Cainz, TCS will leverage its deep contextual and domain knowledge as well as global best practices to accelerate agile development of digital solutions aimed at further enhancing the customer experience, while helping the retailer fulfill its vision of transforming into an IT-empowered retail company.



The TCS facility in Chennai is home to the Cainz Offshore Development Center.

<https://www.tcs.com/cainz-partners-tcs-drive-business-transformation>



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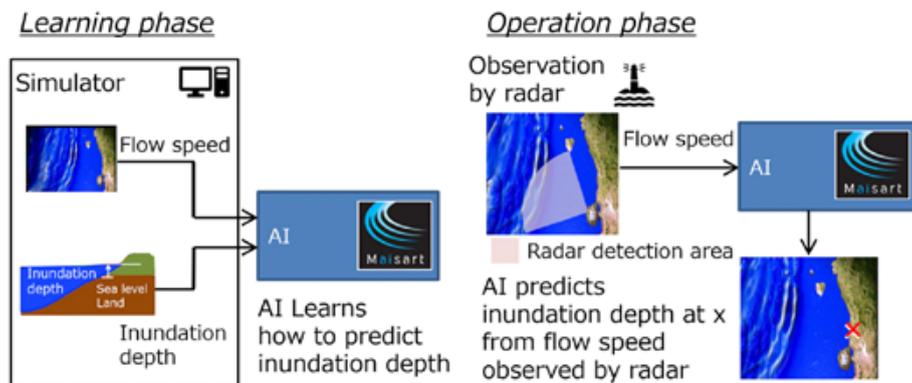


Mitsubishi Electric

Radar-Based Tsunami-Flooding Prediction AI

Mitsubishi Electric has, working in collaboration with the Society for the Promotion of Construction Engineering of the General Incorporated Foundation, developed an artificial intelligence (AI) technology that uses data on a tsunami's velocity detected by radar to forecast the water inundation depths in surrounding inland areas. The AI incorporates Mitsubishi Electric's Maisart® AI technology and generates highly accurate predictions just seconds after a tsunami is detected. The company has already developed radar technology that acquires accurate surface flow speed data, but by combining it with Maisart® AI technology the new system can predict inundation depth and area with high precision in a few seconds. This system will support quick tsunami evacuation behavior to reduce human damage in coastal areas.

*Mitsubishi Electric's AI creates the State-of-the-ART in technology.



The learning and operation phases of radar-based AI for tsunami inundation depth prediction

<https://www.MitsubishiElectric.com/sites/news/2021/pdf/0204.pdf>



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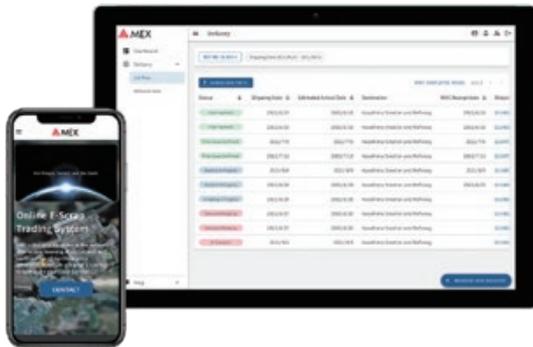
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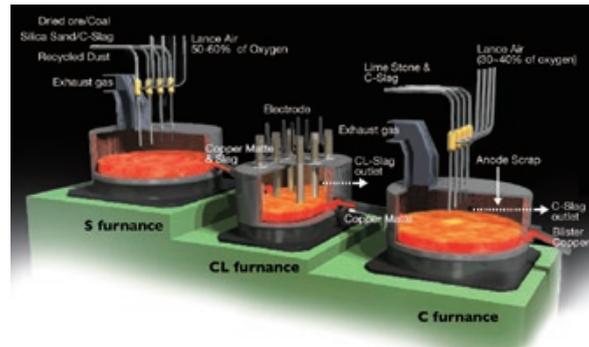
Mitsubishi Materials

New E-Scrap Business Platform Commissioned

Mitsubishi Materials (MMC) has developed and commissioned a new E-Scrap business platform, MEX (Mitsubishi Materials E-Scrap EXchange). With its unique Mitsubishi Process for continuous copper smelting, which leads the industry in environmental load reduction, the company is the world's leading company in the field with an annual acceptance and processing capacity of 160,000 tons of E-Scrap. (E-Scrap refers to discarded circuit boards from various electronic devices that contain gold, silver, copper, palladium and other valuable metals). Developed to further improve customer service, the multi-functional MEX utilizes the latest digital technologies and promises to be an important partner to customers both in and outside Japan.



MEX operation screens



The Mitsubishi Process achieves industry-leading environmental load reduction.

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