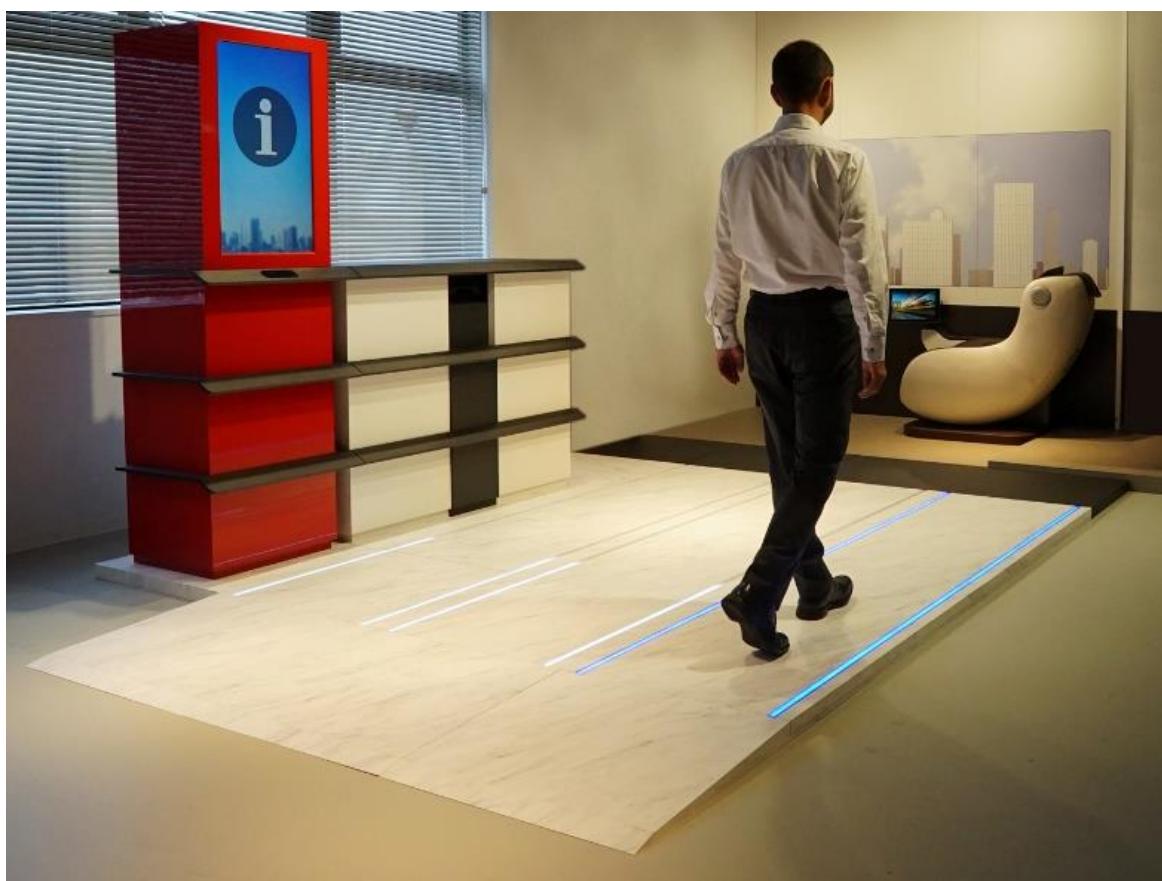


## InnoTrans 2018: Mitsubishi Electric showcases cutting edge rail technology

**London, 6 September** - Mitsubishi Electric today announces that it will showcase a wide range of cutting-edge railway technologies at InnoTrans 2018, the world's largest biennial international trade fair for transport technology, taking place at the Messe Berlin exhibition complex between 18-21 September.

This year's event will see Mitsubishi Electric showcase its 'one-stop shop' railway technologies, covering everything from propulsion and braking to control management equipment and maintenance.

The company will also offer a glimpse of what the future of rail travel could look like. There will be a hands-on demonstration of a conceptual solution to create more convenient and comfortable train stations and train cars. This includes barrier-free fare collection in stations, personalised onboard services and support for in-station tracking, via Mitsubishi Electric's proprietary artificial intelligence "Maisart", which has the ability to identify people who may require assistance.

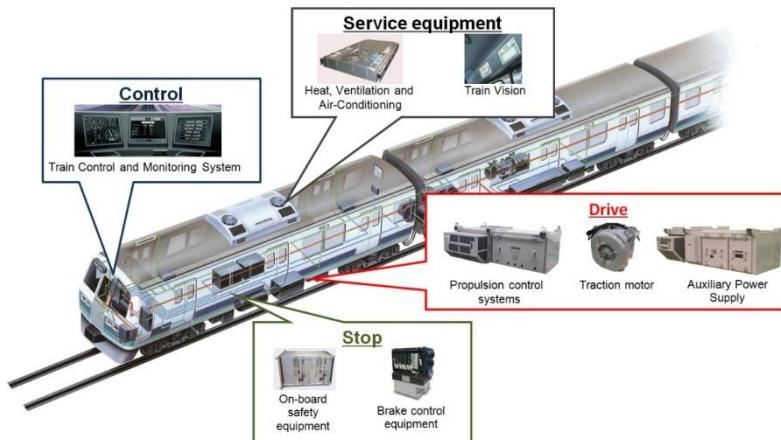


Wireless enabled, barrier-free fare collection technology would mean passengers do not have to pass a card over a reader when entering a platform. They simply walk through a designated ticket area to be authorised. This would mean that

wheelchair users and people with prams or big luggage could pass through smoothly and seamlessly.

Each passenger's authorisation status and the direction in which they are walking are displayed on the floor. In addition, the locations of passengers in the station or on trains are monitored, so staff can provide assistance when needed, such as to prevent fare evasion and help for those with disabilities.

In addition to the demo, the InnoTrans conference will also see Mitsubishi Electric showcase advanced railway technology solutions. The company is the only manufacturer able to provide a 'one stop shop' range of railway technology products, including propulsion and braking, control management equipment and maintenance solutions.



On show will be Mitsubishi Electric's latest railway technology products, including:

- IoT maintenance solutions, such as the "Mitsubishi Mobile Monitoring System for Diagnosis" (MMSD™), a measurement vehicle equipped with GPS, inertial measuring units (IMUs) and laser scanners, which provides high-accuracy sophisticated 3D infrastructure data and maps while the vehicle is running on railway tracks, to contribute to more efficient railway infrastructure maintenance.
- Highly reliable railcar air conditioning systems
- Advanced and energy saving traction transformers
- Highly reliable communication-based train control system (CBTC) and what is believed to be the world's fastest high-speed direct-current (DC) circuit-interruption technology for railway power-supply systems.

The Mitsubishi Electric booth can be found in Hall 7.2a at the event.

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## **Notes to Editors**

### **Features of the conceptual future of rail travel demonstration**

#### **Barrier-free fare collection in stations**

- The concept proposes barrier-free fare collection equipped with wireless communication technology so passengers do not have to pass an IC card over a reader. They simply pass through to be authorised.
- The solution enables wheelchair users and people with strollers or big luggage to pass smoothly
- Each passenger's authorization status and walking path are displayed on the floor.

#### **Support for in-station tracking by railway operators**

- The locations of persons in the station or on trains are monitored so staff can provide assistance when needed, such as for people with disabilities, and to prevent fare evasion.
- In-progress assistance and other activities are visible by other staff to help maximize service.

#### **Monitors for convenient, personalized onboard services based on IC cards**

- LCD screens on seatbacks enable value-added onboard services.
- Personalised services are based on the information in each individual passenger's IC card.
  - Alarm function based on the passenger's registered destination, adjusted for train delays
  - Recommendations for onboard refreshments based on personal preferences
  - Video content recommended according to ride times and viewing/listening options
- Updates about delays among other information and visualization of refreshment cart location.

## **Mitsubishi Electric in Europe**

Europe is believed to have the largest rail equipment market worldwide and is therefore a key region for Mitsubishi Electric as it plans to expand its business with national and commercial car builders, train operators and other local customers.

In recent years, Mitsubishi Electric has continued to win contracts in the European market, including an order from Deutsche Bahn AG for traction systems to

modernise Intercity Express 2 trains, an order for traction systems by Dutch Railways (NS) traction converters for high-speed trains in Norway, as well as an order for air conditioning systems for Siemens Desiro High Capacity Trains scheduled to operate on the new Rhein-Ruhr Express network in Germany. Most recently, the company won a contract for Fr (SNCF), the first ever for a Japanese company, for prototype traction transformers for the Z2N commuter train operating in Paris and its suburbs as well as T4 tram trains also operating in the Parisian suburbs.

In April 2014, Mitsubishi Electric established a new division for its Transportation Systems business at Mitsubishi Electric Europe B.V., a sales subsidiary, to strengthen local sales in Europe. At the same time, it also launched Mitsubishi Electric Klimat Transportation Systems S.p.A. in Italy, after having acquired Klimat Fer S.p.A., to strengthen production of its railcar air-conditioning systems in the region. This gave the company a seventy percent share of the Italian market and is expected to help increase overall European sales. In 2016, Mitsubishi Electric also acquired a forty nine percent stake in MEDCOM Sp. Z o.o., a railway vehicle electrical equipment manufacturer based in Poland.

Mitsubishi Electric's global revenue target for the transportation business until the year 2021 is 320 billion yen (approximately 2.8 billion dollars) and expects to continue to expand its transportation business in Europe.

## **About Maisart**

Maisart encompasses Mitsubishi Electric's proprietary artificial intelligence (AI) technology, including its compact AI, automated design deep-learning algorithm and extra-efficient smart-learning AI. Maisart is an abbreviation for "Mitsubishi Electric's AI creates the State-of-the-ART in technology." Under the corporate axiom "Original AI technology makes everything smart," the company is leveraging original AI technology and edge computing to make devices smarter and life more secure, intuitive and convenient.

## **About Mitsubishi Electric Corporation**

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,444.4 billion yen (in accordance with IFRS; US\$ 41.9 billion\*) in the fiscal year ended March 31, 2018. For more information visit:

[www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)

\*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018

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