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***Mitsubishi Electric drew attention into digital factories, robots and Internet of Things
at Technologies of the Future Summit***

***Communication Gains Importance For Manufacturing Process of
Digital Factories***

At 2. Geleceğin Teknolojileri Zirvesi (Technologies of the Future Summit) organized by Selçuk University Mühendislikte Gelişim Topluluğu (Development in Engineering Community) where current position of technology in the world and Turkey and future goals are discussed, Mitsubishi Electric Turkey Factory Automation Systems Business Development Senior Manager Tolga Bizel took his part as a speechgiver with his presentation themed digital factories and robotics. Describing that it is possible to establish the future factories starting today using the e-F@ctory concept, Mitsubishi Electric's answer to Industry 4.0, Bizel gave advices to the students to help them get prepared for the new phase of industry.



"2. Technologies of the Future Summit" which brought experts of artificial intelligence, change, blockchain, professions of the future, entrepreneurship, innovation, defense technologies, branding, 5G and digital transformation together with the students of Konya took place in Selçuk University on 6-8

November. **Mitsubishi Electric Turkey Factory Automation Systems Business Development Senior Manager Tolga Bizel** took his part as a speechgiver with his

presentation themed digital factories and robotics in the event organized by Selçuk University Mühendislikte Gelişim Topluluğu (MÜGET-Development in Engineering Community). Telling us that Mitsubishi Electric, pioneer in the fields of electric, electronics and automation, answers Industry 4.0 with its digital and smart factory concept e-F@ctory, Bizel also informed us on the Internet of Things, which forms the basis of digital transformation.

Products such as manufacturing systems will be constantly connected to internet



Telling that every product manufactured during the era of digital and smart production is planned to have a separate serial number unlike today's modern systems and they are planned to keep not only some basic information but also their own history, Tolga Bizel continued. "These products will be constantly connected to the internet, just like the machine that manufactured them, thus their positions and conditions will be located easily. Thanks to their receivers they'll examine the environment they are in and within their own capabilities they'll be able to react physically and while doing so they'll be able to share information with other online devices in real-time. A product answering to personalized requirements will have the opportunity to be modified while being manufactured in the factory and the system structure to keep this process under control will be provided."

Objects and things will be able to communicate with humans and within themselves

Stating that the concept of Internet of Things can be described as objects and goods sharing data by connecting to internet and communicating with humans and themselves over the cloud, Tolga Bizel relayed this information regarding the topic at hand;

"Without a doubt, manufacture is in the center of the new industrial phase. Together with the topic of Industry 4.0, which has been in the focus of companies and the Internet of Things which had a great effect on technology investments of companies, the importance of communication grows even more. At this point, as Mitsubishi Electric we redesign our business models and decide where we should focus our technology investments in order to increase our performance. With the innovative solutions we develop using our deep-rooted legacy of innovation and advanced technology, we transform infrastructures, systems and processes of factories in accordance with the new digital era."

It's possible to establish the factories of the future, starting today with e-F@ctory

Stating that the new industrial phase can be described as encouraging current industries towards computerization, Bizer relay this information; "In the age of digital transformation, machines will be able to understand what's going on around them and they'll be able to communicate with each other via internet protocols. This way it will become easier to adapt to competitive conditions in markets thanks to the ability of optimizing production lines in factories in accordance with personal requirements. At Mitsubishi Electric, we answer this new industrial phase with our e-F@ctory concept. It's possible to establish the factories of the future, starting today with e-F@ctory. During this phase, thanks to the ever-increasing data transfer rates between robots and advanced robotics technologies that can communicate with each other, robots can control themselves in a more coordinated and precise fashion. Today, robots can communicate with other products on the production line thanks to e-F@ctory. They are ready to share information within themselves and the main system controlling the factory without human intervention in order to increase efficiency. Because in e-F@ctory concept, all products that make up the factory automation work integrated to one another with open architecture."

The young must get ready for new disciplines



Stating that numerous new business disciplines were created in numerous sectors as a result of industrialization studies which started under the light of fundamental sciences, Bizer told us that the concept of "mechatronics", which initially started in Japan is rapidly being popularized in other countries as well. Underlining the fact that this isn't a coincidence considering the development of industrial phases, Bizer made advices to students for getting prepared for the Industry 4.0 phase; "It is highly important that the young understand and interpret new disciplines in rapidly digitalizing world and make necessary preparations. In this

period, the importance of robots in our lives increase day by day due to the speed and conveniences they provide. Thus it becomes important to train engineers that can program industrial robots to be used heavily in industry, science and health sectors and even perform integration of them into production lines and design new robots. At this point, as Mitsubishi Electric Turkey we contribute towards establishing robot training centers by granting our 6

axis industrial robots to engineering faculties of universities. We will increase our works carried forward to help the education of the young in future periods."

About Mitsubishi Electric Corporation

With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation 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*

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

About Mitsubishi Electric's Activities in Turkey

Mitsubishi Electric's main fields of activity in Turkey are; air conditioning systems, factory automation systems, advanced robotics, CNC mechatronic systems, elevator and escalator systems and visual data systems. Mitsubishi Electric, which established a room air conditioner development and manufacturing company in April 2016 in Turkey, began production in Manisa factory in December 2017. Mitsubishi Electric, the producer of Turksat 4A and 4B satellites, which contributes to the communication and publishing infrastructure of Turkey and neighboring countries, is notable for its satellites as well as the automation technology used in the Marmaray project. For more information; tr.mitsubishielectric.com

About Mitsubishi Electric Turkey Factory Automation Systems

Mitsubishi Electric Turkey Factory Automation Systems; provide added value in terms of rapid integration, productivity, flexibility and productivity to the leading industrial companies in Turkey in various fields such as automotive, food, packaging, metal and PVC processing machines. The new industry, also called "Industry 4.0", responds with e-F@ctory, i.e. the digital factory concept. For more information; tr3a.mitsubishielectric.com

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