



Ericsson and Comau show 5G Digital Twin at Hannover Messe

- The Digital Twin increases operation enabling to simulate, plan and solve complex solutions working in a digital environment that replicates the real one
- The demo, shown at Hannover Messe, underlines the importance of 5G in industrial automation use cases thanks to massive communication and low latency
- 5G becomes the enabling driver to optimize operations and the digital transformation process in Industry 4.0.

Hannover, April 2nd, 2019 - Ericsson (NASDAQ: ERIC) and Comau show the Digital Twin enabled by the 5G connectivity to the Hannover Messe. This innovation project, which is currently being tested, represents a further step in the long-lasting partnership between Ericsson and Comau aimed at developing new use cases and solutions for Industry 4.0 and Smart Manufacturing, thanks to the potential offered by the fifth-generation mobile technology.

Comau and Ericsson show the digitized version of an assembly line in an automotive plant. Using special glasses for Virtual Reality applications, visitors are immersed in the line and can "move" within it, monitoring the key parameters of the processes and of the machines, such as vibrations, temperature, pressures and absorptions. A Virtual Reality digital dashboard, which can be used with a standard tablet, will identify situations that could create slowdowns or interruptions in the process by providing instructions to tackle the problem effectively.

The features of 5G connectivity allow to collect a stable, continuous and massive flow of data in real-time that is vital for automation processes. Thanks to 5G low latency, the Digital Twin shows information related to the real robot in the form of visual outputs, which make it possible to understand how the robot activity will evolve in the cell. Not only: from the data analysis it is possible to foresee faults and malfunctions and identify which component must be repaired or replaced, suggesting which actions to take to operate effectively. 5G becomes the enabling technology for



every analytics and digital intelligence remote activity on all assets of the production system.

The pilot project presented in Hannover is the result of continuous development, combined with the commitment to research and innovation, by Comau and Ericsson, to enable the digital transformation process in manufacturing.

"Comau's new digitally interconnected equipment delivers real-time production data where and when it is needed, helping reduce downtime while improving overall quality. Digitized analytics provide customers with a wealth of information regarding production flows and throughput - information that is made available locally and remotely. 5G is an enabling driver for the digital transformation within the Industry 4.0 environment, specifically for low latency, bandwidth and plug & play connectivity of factory equipment. The demo showcased with Ericsson shows how a digital twin can work in a production line", points out Maurizio Cremonini, Comau Head of Marketing and Digital Initiatives Platform.

Magnus Frodigh, Head of Research, Ericsson, says: "Bandwidth and low latency, main features of the new 5G technology, are the crucial factors that will allow to accelerate the digitization and automation processes, enabling cutting-edge use cases in Smart Manufacturing and Industry 4.0. The demo we are presenting with Comau shows how 5G deployment in the industrial environment will allow to increase productivity, reducing costs."

The Digital Twin will be demonstrated at Hannover Messe April 1-5 in the Ericsson booth, Hall 8.

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About Ericsson

Ericsson enables communications service providers to capture the full value of connectivity. The company's portfolio spans Networks, Digital Services, Managed Services, and Emerging Business and is designed to help our customers go digital, increase efficiency and find new revenue streams.

Ericsson's investments in innovation have delivered the benefits of telephony and mobile broadband to billions of people around the world. The Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York.

www.ericsson.com

About Comau

Comau, a member of the FCA Group, is a worldwide leader in delivering advanced industrial automation products and systems. Combining innovative engineering solutions with enabling technologies, Comau helps companies leverage the full potential of digital manufacturing.

In addition to a vast range of modular, flexible and highly-configurable products, Comau offers interconnected digital service solutions able to transmit, elaborate and analyze important machine and process data, thereby increasing efficiency for smart manufacturing. The full portfolio includes: joining, assembly and machining solutions for traditional and electric vehicles, robotized manufacturing systems, a complete family of robots with extensive range and payload configurations, autonomous logistics, and asset optimization services with real-time monitoring and control capabilities. The offering also extends to project management and consultancy, IoT services, and maintenance and training for a wide range of industrial segments.

Headquartered in Turin, Italy, Comau has over 45 years of factory-proven experience and an international network of 32 locations, 14 manufacturing plants and 5 innovation centers that span 14 countries and employ more than 9,000 people. A global network of distributors and partners allows the company to respond quickly to the needs of customers of all sizes, no matter where they are located throughout the world. Comau is also committed to improving human - machine collaboration by developing competencies through the formation of individuals and groups as part of its open automation approach. This includes hands-on training programs by Comau Academy that develop the technical and managerial competencies necessary to face the challenges and opportunities of Industry 4.0.

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