

Tokyo and Nuremberg, August 30, 2022

Siemens and Nissan collaborate to digitalize production lines for new crossover electric vehicle Ariya

- **Cooperation draws on Siemens' portfolio of IoT-enabled hardware, software and digital services – the open digital business platform Siemens Xcelerator**
- **New initiative builds on long-standing software partnership of both companies**

Siemens, a leading supplier in the field of automation and industrial software, cooperates with Nissan to build production lines for the new all-electric crossover Nissan Ariya at the company's plant in Tochigi, Japan. Both companies build on their long-standing cooperation. Nissan had already been using the Siemens Digital Industries software portfolio to optimize design and production. End-to-end digital threads enable Nissan to connect a wide variety of sources of information across product lifecycle management (PLM) platforms.

"The successful launch of the new production lines is a milestone in the collaboration of the two companies," says Cedrik Neike, Member of the Managing Board of Siemens AG and CEO Digital Industries CEO. "Climate change and stringent environmental regulations are powerful drivers for the development of electrified powertrains. We will bring in all of our cutting-edge technologies to this collaboration to enable a highly flexible, efficient and sustainable automotive production."

"At our Nissan Intelligent Factory in Tochigi, we are building the future of mobility. It enables us to not only improve the work environment but also to realize a zero-emission production system. To digitalize our new electric vehicle production line, we chose to work with Siemens, our innovation partner and one of the leading

companies in industrial automation and digitalization, because they have the necessary expertise in this area,” says Teiji Hirata, Corporate vice president, Vehicle Production Engineering and Development Division at Nissan Motor Co., Ltd.

The system architecture of Nissan's newly developed electric powertrain aims to standardize the processing and assembly of the powertrain. It includes Siemens' safety PLC Simatic S7-1500, ET200SP distributed I/ O module as Siemens One Single Solution (OSS). Profinet creates end-to-end communication from the field to the management level, and the engineering framework TIA Portal has also fully integrated all automation devices. This enables complete access to the entire digitalized automation process, from digital planning to integrated engineering and transparent operation. More intelligent automobiles require more and high-performing Electronic Control Units (ECUs) in the vehicle – as is the case in the new Nissan Ariya. The Siemens diagnostic commissioning system Sidis Pro, which has already been deployed in many automobile companies around the world, is implemented at Nissan's new production line for data writing into ECU and verifying automotive electric components. Sidis Pro is the advanced vehicle diagnosis and inspection data management system that provides optimal support for inspection processes to enable quality of car production. Sidis Pro manages a wide range of data with server functions, contributing to the digitization of production lines. It enables maximum flexibility in automotive production as it is easily modifiable depends on the production plan, and the changes can be adapted quickly. The same software can be used for different applications, enabling system standardization and ensuring that fewer resources perform for more tasks even at other production sites.

Siemens continues to support Nissan in digitalizing and electrifying the production facilities and contribute to the realization of Nissan Intelligent Factory vision.



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Siemens Digital Industries (DI) is a leading innovator in automation and digitalization. In close cooperation with its partners and customers, DI is the driving force for the digital transformation in the process and manufacturing industries. With its Digital Enterprise portfolio, Siemens provides companies of all sizes with all the necessary products, along with consistent solutions and services for the integration and digitalization of the entire value chain. Optimized for the specific requirements of individual industries, this unique portfolio enables customers to enhance their productivity and flexibility. DI continuously extends its portfolio to include innovations and the integration of future-oriented technologies. Siemens Digital Industries, with its headquarters in Nuremberg, has a workforce of around 76,000 employees worldwide.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power. In fiscal 2021, which ended on September 30, 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30, 2021, the company had around 303,000 employees worldwide. Further information is available on the Internet at www.siemens.com.