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BRIDG + Siemens Partnership Announcement – Press Event

Siemens and BRIDG partner to develop Digital Twin solutions for semiconductor manufacturing

Siemens announces today a partnership with BRIDG to drive the development of Digital Twin technologies for the semiconductor industry by providing Siemens' PLM software portfolio to enable BRIDG's research and development activities. The combination of expertise will help establish the first Digital Enterprise Solution for semiconductor manufacturing at the BRIDG wafer fabrication facility located at NeoCity in Osceola County, Florida. With an in-kind software grant valued at more than \$30M, this partnership creates an important milestone—the first ever digital enterprise implementation in the semiconductor industry. Siemens' Digital Enterprise solutions enable manufacturing companies to streamline and digitalize their entire business process, seamlessly integrating suppliers into the mix. Designed as one of the world's most flexible and adaptable fabrication facilities, BRIDG is focused on the manufacturing development of advanced technologies in smart sensors, imagers, advanced devices and 2.5D/3D chip integration.

Through this partnership, the new BRIDG Digital Enterprise site will feature the complete Siemens product lifecycle management (PLM) portfolio, ranging from requirements management, product design, simulation, manufacturing and yield management to product performance analytics. Manufacturers in the semiconductor industry can use this digital enterprise solution to help improve manufacturing throughput, improve product quality and reduce costs. The initial deployment includes the Tecnomatix® portfolio for plant simulation, Camstar™ Semiconductor Suite and Calibre™ Design and Manufacturing Solutions from Siemens' recent acquisition of Mentor Graphics.

“The opportunity for BRIDG to team with Siemens to lead the semiconductor industry in the digital mapping of the device building blocks associated with the

manufacturing of advanced microelectronics is tremendous,” stated Chester Kennedy, chief executive officer, BRIDG. “This program will establish digital duplicates for model-based systems that lay the foundation for semiconductor design for manufacturing. Partners like Siemens help us develop and provide commercialization infrastructure, as well as the capability for proof of concept, custom development and pilot production. This also leverages the existing Siemens relationship with our visionary stakeholder, the University of Central Florida, and further solidifies Siemens’ commitment to our region. We look forward to working with Siemens to be the global leaders in the digital transformation of semiconductor manufacturing.”

“BRIDG is in a unique position to advance innovation in the semiconductor industry as well as other industries with their smart manufacturing wafer fabrication facility dedicated to new product launch in the IoT segment,” said Rob Rudder, vice president, Siemens PLM Software. “Siemens is proud to partner with BRIDG and provide our Digital Enterprise Solution to help accelerate innovation in the manufacturing development of advanced technologies in smart sensors.”

Siemens’ Digital Enterprise Solutions can help semiconductor manufacturers improve manufacturing throughput, product quality and overall cost-effectiveness across the lifecycle of their products from ideation to realization and utilization. For example, the use of a single source of configuration data across applications helps teams collaborate more effectively, which can reduce cycle times and improve the overall throughput. The simulation of products with a digital twin, prior to actual manufacturing, can help companies eliminate future processing errors and improve their fabrication outputs. Change management, manufacturing execution software (MES) and yield management technology within the solution enable semiconductor manufacturers to more easily identify quality issues and their root causes in real time. Additionally, compressing the new product introduction (NPI) cycle and helping to eliminate disparate legacy systems can help save money and streamline system maintenance.

Siemens has nearly 5,000 employees in the state of Florida spanning power generation, transmission and distribution, energy efficient buildings and infrastructure, medical imaging and healthcare diagnostics technologies. The company’s software and hardware solutions have helped automate processes and

increase efficiency in areas ranging from manufacturing to city infrastructure, and even theme parks. This in-kind software grant is the third Siemens has announced in the state of Florida in the last year. Previously, it was announced that in-kind academic software grants were made to the University of Central Florida and Florida Institute of Technology. These grants illustrate Siemens' commitment to working with the Florida High Tech Corridor on research and development that can help accelerate innovation and manufacturing.

Siemens PLM Software, a business unit of the Siemens Digital Factory Division, is a leading global provider of software solutions to drive the digital transformation of industry, creating new opportunities for manufacturers to realize innovation. With headquarters in Plano, Texas, and over 140,000 customers worldwide, Siemens PLM Software works with companies of all sizes to transform the way ideas come to life, the way products are realized, and the way products and assets in operation are used and understood. For more information on Siemens PLM Software products and services, visit www.siemens.com/plm.

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion. At the end of September 2017, the company had around 372,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

BRIDG is a not-for-profit, industry-led public-private partnership for advanced sensors, optics, photonics and advanced manufacturing devices. BRIDG focuses on the innovative manufacturable processes, materials and equipment for next-generation sensors and future high-tech products. Supported by Osceola County, University of Central Florida and Florida High Tech Corridor Council, BRIDG provides the physical infrastructure and collaborative process to connect challenges and opportunities with solutions – thus “Bridging the Innovation Development Gap” that makes commercialization possible. Located at NeoCity, a 500-acre master-planned intuitive community of innovation in Florida, BRIDG is centrally located near the Orlando International Airport and the Florida Turnpike. Learn more at www.GoBRIDG.com.

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