



ANSYS Collaborates With GE to Drive Digital Twin Value and Deliver the Promise of the Industrial Internet of Things

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PITTSBURGH, Nov. 16, 2016 /PRNewswire/ -- [ANSYS](#) (NASDAQ: ANSS) announced today that it will collaborate with GE to create model-based digital twin technology and disruptive commercial business models to deliver on the promise of the Industrial Internet of Things. This builds on an existing relationship between the two companies. ANSYS will demonstrate a variety of industry-specific digital twins at [GE's](#) (NYSE: GE) [Minds + Machines](#) event in San Francisco, dedicated to building the digital industrial ecosystem.



Simulation technology is no longer solely used by engineers to design better products and reduce the costs of physical testing. Leading organizations are expanding the use of simulation into operations by creating digital twins – virtual representations of individual operating assets whose performance and productivity can be improved dynamically through simulation technology. Coupling the rich sensor data from increasingly smart industrial equipment with the predictive power of simulation, specific operating conditions can be analyzed and failure points predicted, unlocking billions of dollars in production and maintenance optimization.

Digital twins can live with the asset, providing a dynamic self-teaching model used to optimize its performance in conjunction with an Industrial Internet of Things (IIoT) platform. This combination of machine learning, coupled with physics-based modeling, enables organizations to see how their products performed in the past and predict the future simultaneously. Using ANSYS to create model-based digital twins will provide a foundation to scaling the benefits of the IIoT. This is no longer a theoretic concept as ANSYS and GE Global Research are already demonstrating actual implementation of digital twins, like the [GuardEon Molded Case Circuit Breaker](#), a powerful low-voltage circuit breaker designed for global industry applications. By using ANSYS software, GE engineers are able to study and test complex physics at a level of detail that was impossible to achieve through physical testing.

"Pairing physics and analytics models via the digital twin is essential to providing our customers with the 360 degree insights they need to create competitive advantage in a rapidly changing world," said Eric Bantegnie, ANSYS vice president. "We are excited to be taking another step forward in our long-standing partnership with GE."

Through this collaboration, ANSYS will work with GE Digital, GE Global Research and GE's industrial businesses to expand and integrate ANSYS' leading physics-based engineering simulation and embedded software development platform with GE's Predix platform to power digital twin solutions across a wide range of industries. Scaling digital twin solutions from the edge to the cloud will accelerate the value of ANSYS simulation, drive Predix adoption and open new opportunities to explore disruptive business models and commercial relationships.

"We are building the digital industrial ecosystem to drive better outcomes for our customer through the Predix platform," said John Magee, Chief Marketing Officer, Predix. "ANSYS is the market leader in physics-based simulation, and we are pleased to work with them to scale model-based digital twin solutions on Predix to provide our customers with new insights that were not possible before."

About ANSYS, Inc.

ANSYS is the global leader in engineering simulation. We bring clarity and insight to our customer's most complex design challenges through the broadest portfolio of fast, accurate and reliable simulation tools. Our technology enables organizations in all industries to imagine high-quality, innovative and sustainable product designs that have an accelerated time to market. Founded in 1970, ANSYS employs almost 3000 professionals, more than 700 of them with PhDs in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales and development locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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