# NEWS RELEASE

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## ANSYS ACQUIRES ADDITIVE MANUFACTURING SIMULATION LEADER 3DSIM

*Acquisition creates the first complete additive manufacturing simulation workflow*

**PITTSBURGH, November 15, 2017 –** ANSYS (NASDAQ: ANSS), the global leader and innovator of engineering simulation software, announced today that it has acquired 3DSIM, the developer of premier additive manufacturing simulation technology. The acquisition of 3DSIM gives ANSYS the industry's only complete additive manufacturing simulation workflow. Terms of the deal were not disclosed.

Additive manufacturing is the fastest-growing engineering market segment. While it has the potential to transform the industrial manufacturing landscape, companies have several hurdles to overcome before they can broadly replace existing manufacturing methods. Printing metal is particularly challenging because it often involves a laser, which optimizes the metal's density for each application. But it can also melt the metal in unexpected ways, causing product failure. Additionally, rapid heating and cooling causes stresses that can deform the product. The combined ANSYS-3DSIM simulation solution will mitigate those risks, leading to stronger, yet lighter components in the future.

Headquartered in Park City, Utah, 3DSIM develops powerful simulation software for metal additive manufacturing. 3DSIM's software tools empower manufacturers, designers, materials scientists and engineers, to achieve their objectives through simulation-driven innovation rather than physical trial and error. Customers include aerospace and automotive OEMs, parts manufacturers, metal additive manufacturing machine producers and leading research labs.

3DSIM's products include exaSIM, an easy-to-use tool developed specifically for machine operators and designers for additive manufacturing-developed parts. exaSIM provides unparalleled predictions to identify and address residual stress, distortion and build failure, enabling users to achieve part tolerances and avoid build failures without physical experimentation. Another product, FLEX, enables engineers, analysts and researchers to dial in the best process parameters for a particular additive manufacturing machine and material combination. That leads to the highest level of part integrity and predicts microstructure and properties before building the part.

"Additive manufacturing is changing the way companies are bringing products to market, and 3DSIM is helping to lead the way through its innovative solutions," said Shane Emswiler, ANSYS vice president and general manager. "By bringing exaSIM and FLEX onto our Workbench platform, ANSYS can offer customers the only end-to-end additive manufacturing simulation workflow available. That will spark innovation, speed time to market and reduce manufacturing costs for our customers across industries."

"We are excited to become part of the ANSYS family with its nearly 50-year history of helping customers realize their product promise," said 3DSIM CEO Brent Stucker. "Combining 3DSIM's leading additive manufacturing technology with ANSYS engineering simulation solutions will be a win-win for our customers and the entire industry."

**About ANSYS, Inc.**

If you've ever seen a rocket launch, flown on an airplane, driven a car, used a computer, touched a mobile device, crossed a bridge, or put on wearable technology, chances are you've used a product where ANSYS software played a critical role in its creation. ANSYS is the global leader in engineering simulation. We help the world's most innovative companies deliver radically better products to their customers. By offering the best and broadest portfolio of engineering simulation software, we help them solve the most complex design challenges and create products limited only by imagination. Founded in 1970, ANSYS employs thousands of professionals, many of whom are expert M.S. and Ph.D.-level engineers in finite element analysis, computational fluid dynamics, electronics, semiconductors, embedded software and design optimization. Headquartered south of Pittsburgh, Pennsylvania, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

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