



News Release

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3D Systems Extends Leadership in Precision Healthcare with Technology Advancements to Quickly Create 3D Models

- Industry-first Volume Virtual Reality software speeds visualization of digital 3D models created from patient scans
- 3D Systems teams with global health leader Philips to provide access to 3D printed models

CHICAGO, Illinois, November 27, 2017 – Today, at the Radiological Society of North America (RSNA®) Annual Meeting and Exhibition, [3D Systems](#) (NYSE: DDD) announced a new D2P™ (DICOM to PRINT) technology that helps clinicians and radiologists quickly create accurate, digital 3D anatomical models from medical imaging data. The company also announced that it will showcase how customers are using its end-to-end additive manufacturing solutions to optimize designs, and transform healthcare workflows at the exhibit, November 26-30, booth 1717.

Industry-First Volume Virtual Reality Software

The company also announced the industry-first Volume Virtual Reality (VR) technology that allows physicians to upload patient scan data to D2P and immediately visualize medical datasets in virtual reality without time-consuming pre-processing or segmentation. It produces results similar to those shown on high-end imaging workstations, but is rendered in virtual reality compared to standard flat screens.

Visualization in virtual reality greatly enhances 3D understanding of structure and scale and can be used as part of routine examinations, or preoperative planning of surgical procedures. This new technology is available now as part of an integrated application through 3D Systems' D2P offering.

New Agreement with Philips Provides Access to 3D Printed Models

Also announced today, 3D Systems signed an agreement with Philips to accelerate medical progress in improved planning and patient outcomes. Philips customers now have seamless access to expedite 3D printing to create physical 3D models to help physicians understand patient anatomy that is difficult to visualize, and deliver personalized medicine in the most unique, complex cases.

At RSNA, 3D Systems will showcase examples of patient-specific models in three materials, each printed using a different technology, including SLA (Stereolithography) using a biocompatible resin with the ability to highlight vital structures. These models can be sterilized for reference in the operating room.

"In just over a decade, 3D printing has made patient-specific anatomical models routine. From pre-surgical planning to using the models as guides in the operating room, these tools have made complex procedures more simple and precise," said Evan Garfein, M.D., chief, Division of Plastic and Reconstructive Surgery, Montefiore Health System. "With the arrival of D2P software we now have advanced software and 3D printers that are accessible to surgeons at the point-of-care. It is the beginning of a new era in personalized medicine and surgical 3D printing."

3D Systems partners with radiologists, surgeons, healthcare professionals, medical device manufacturers, and medical teaching staff to offer a range of precision healthcare solutions, including virtual reality simulators, 3D printed anatomical models, VSP® (Virtual Surgical Planning), patient-specific surgical guides, instrumentation and implants.

"3D Systems continues to deliver on the growing need of the medical community for innovative and adaptive tools designed to provide better insights, better processes and better outcomes," said Kevin McAlea, executive vice president, general manager, Metals and Healthcare, 3D Systems. "Our extensive and growing offering of precision healthcare and medical 3D printing

solutions provides the means and skills for medical professionals to overcome today's challenges and advance the future of patient care."

Meet with 3D Systems' precision healthcare experts at the company's booth at RSNA 2017 in Chicago, IL, booth 1717. For more information on 3D Systems' comprehensive healthcare solutions, contact healthcare@3dsystems.com.

Forward-Looking Statements

Certain statements made in this release that are not statements of historical or current facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance or achievements of the company to be materially different from historical results or from any future results or projections expressed or implied by such forward-looking statements. In many cases, forward looking statements can be identified by terms such as "believes," "belief," "expects," "may," "will," "estimates," "intends," "anticipates" or "plans" or the negative of these terms or other comparable terminology.

Forward-looking statements are based upon management's beliefs, assumptions and current expectations and may include comments as to the company's beliefs and expectations as to future events and trends affecting its business and are necessarily subject to uncertainties, many of which are outside the control of the company. The factors described under the headings "Forward-Looking Statements" and "Risk Factors" in the company's periodic filings with the Securities and Exchange Commission, as well as other factors, could cause actual results to differ materially from those reflected or predicted in forward-looking statements. Although management believes that the expectations reflected in the forward-looking statements are reasonable, forward-looking statements are not, and should not be relied upon as a guarantee of future performance or results, nor will they necessarily prove to be accurate indications of the times at which such performance or results will be achieved. The forward-looking statements included are made only as the date of the statement. 3D Systems undertakes no obligation to update or review any forward-looking statements made by management or on its behalf, whether as a result of future developments, subsequent events or circumstances or otherwise.

About 3D Systems

3D Systems provides comprehensive 3D products and services, including 3D printers, print materials, on demand manufacturing services and digital design tools. Its ecosystem supports advanced applications from the product design shop to the factory floor to the

operating room. 3D Systems' precision healthcare capabilities include simulation, Virtual Surgical Planning, and printing of medical and dental devices as well as patient-specific surgical instruments. As the originator of 3D printing and a shaper of future 3D solutions, 3D Systems has spent its 30-year history enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models.

More information on the company is available at www.3dsystems.com

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