

News Release

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3D Systems' Figure 4™ 3D Printing Platform Selected for U.S. Air Force Research into Rapid Part Replacement

ROCK HILL, South Carolina, April 26, 2018 – Today at RAPID+TCT 2018, [3D Systems](http://www.3dsystems.com) (NYSE: DDD) announced its [Figure 4™](#) Production system has been selected for Air Force-sponsored research focused on integrating high-speed 3D printing into the aircraft maintenance supply chain. Overseen by America Makes, the national additive manufacturing innovation institute, and led by the University of Dayton Research Institute (UDRI), this initiative brings together 3D printing and aerospace manufacturing leaders, including 3D Systems, Lockheed Martin, Orbital ATK and Northrop Grumman.

Through this project, the Air Force will explore how 3D Systems' Figure 4™ Production system can be used to reproduce aircraft components for decades old planes that may no longer have reliable sources of replacement parts. This effort demonstrates capabilities for rapidly delivering replacement parts just-in-time without minimum order quantities – eliminating the need for parts warehousing and reducing time of aircraft on ground.

The award was made as part of multi-year Air Force program known as "Maturation of Advanced Manufacturing for Low-cost Sustainment" (MAMLS) which is just now advancing to Phase III. While 3D Systems Direct Metal Printing and stereolithography technology had been featured in prior MAMLS phases, this new project marks the first time the Air Force will deploy what it calls Digital Light Processing (DLP) technology to supply low criticality components, including electrical connectors, knobs, elastomeric grommets, and spacers for legacy sustainment equipment.

Figure 4 was selected by this team over any other DLP machine because it is the fastest, most accurate 3D printing technology available. Recently released data on Figure 4 Production highlights part print speeds up to 65mm/hr, with prototyping speeds of up to 100 mm/hr. The Figure 4 platform delivers part accuracy and repeatability, with Six Sigma repeatability ($C_{pk} > 2$) across all materials. The combination of speed and accuracy complemented by a light-based UV curing process that takes minutes versus hours with heat-based curing processes, yields the world's fastest additive manufacturing throughput and time-to-part. This substantially cuts down the time required to manufacture parts, enabling faster repair and reduced time of aircraft on ground.

"We were pleased with the speed, resolution, surface finish, and scalability that we achieved utilizing 3D Systems' solution," said Dr. Tim Osborn, research scientist: additive manufacturing, multiscale composites and polymer division, University of Dayton Research Institute. "Our goal is to further explore this technology and establish a clear development, vetting, and transition pathway for the emerging DLP technology in the Figure 4 machine for transition to the U.S. Air Force."

According to America Makes, legacy aircraft used by the U.S. Air Force (AF) require parts that may be out-of-production due to manufacturing obsolescence, costs to create, low-quantity requirements, poor documentation, or other availability-related challenges. The MAMLS program - an America Makes program funded by the Air Force Research Laboratory (AFRL) - has just reached Stage III and announced multiple awards on three key topics that will have the most impact for defense maintenance, sustainment and logistics and the overall strategic readiness of the USAF and DOD.

"Additive manufacturing is the perfect lean solution because it avoids the need for time-consuming and costly tooling," said Chuck Hull, co-founder and chief technology officer, 3D Systems. "We are pleased to support the Air Force in its effort to reduce production costs and delivery times through Figure 4, our novel additive manufacturing technology. We look forward to our continued collaboration with UDRI and other partners - helping expand their arsenal of Figure 4 applications."

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 is the originator of 3D printing and an innovator of future 3D solutions. It has spent its 30-year history enabling professionals and companies to optimize their designs, transform their workflows, bring groundbreaking products to market and drive new business models. This is achieved with the Company's best of breed digital manufacturing ecosystem. It's comprised of plastic and metal 3D printers, print materials, on demand manufacturing services and end-to-end manufacturing software solutions. Combinations of these products and services address a variety of advanced applications- ranging from Aerospace, Automotive, and Consumer Goods to Medical, Dental, and Jewelry. For example, 3D Systems' precision healthcare capabilities include simulation, Virtual Surgical Planning, and printing of medical and dental devices as well as patient-specific surgical instruments. More

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

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