



News Release

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3D Systems' Digital Thread Enhances U.S. Marine Corps Combat and Logistic Units' Toolkit

- Marine Corps taps 3D Systems for War Games to test cutting edge technological solutions, including SLS and Direct Metal Printing
- Exercise showcases critical applications of 3D scanning and printing for defense and rapid response forces

ROCK HILL, South Carolina –August 25, 2014 – [3D Systems](#) (NYSE:DDD)

announced today its role in the [US Marine Corps Expeditionary Logistics Wargame VIII \(ExLog\)](#). This annual event enables top Marine Corps planners to incorporate new technologies to enhance the Corps' logistics and supply chain response capabilities.

During the event, Marine Corps engineers plan to explore 3DS' advanced 3D scanning and printing tools to rapidly replace damaged parts in the field. As part of the exercise, Marines will repair two key parts of a tactical multipurpose robot, designed to clear a "hot" landing zone of obstacles preventing the insertion of a helicopter. Engineers will utilize [Geomagic® Capture™](#), a powerful, portable 3D scanner, coupled with [Geomagic Design™ Direct](#), to create exact CAD models of the damaged robot's components in minutes. Replacement parts will then be immediately printed using 3DS' Selective Laser Sintering and Direct Metal Printing Fab-Grade printers. Once parts are printed, the quality and accuracy of the parts will be checked using [Geomagic Control™](#) for accurate comparison of the physical part to the original data.

Whereas battle damage would once require military hardware to be decommissioned and removed from battle for extended and costly servicing, this exercise will demonstrate how 3D printing enables engineers to complete the necessary scanning, printing and inspection locally on site, and productively through a seamless digital thread.

“We are thrilled to work with the U.S. Department of Defense to modernize tactics across multiple domains (land, air, sea, cyber, and space) and demonstrate to the Marine Corps the latest tools to deliver rapid response solutions in critical applications,” said Neal Orringer, Vice President of Alliances and Partnerships at 3DS. “We are pleased to be a partner in this effort to improve tactical responses and help save warfighters’ lives.”

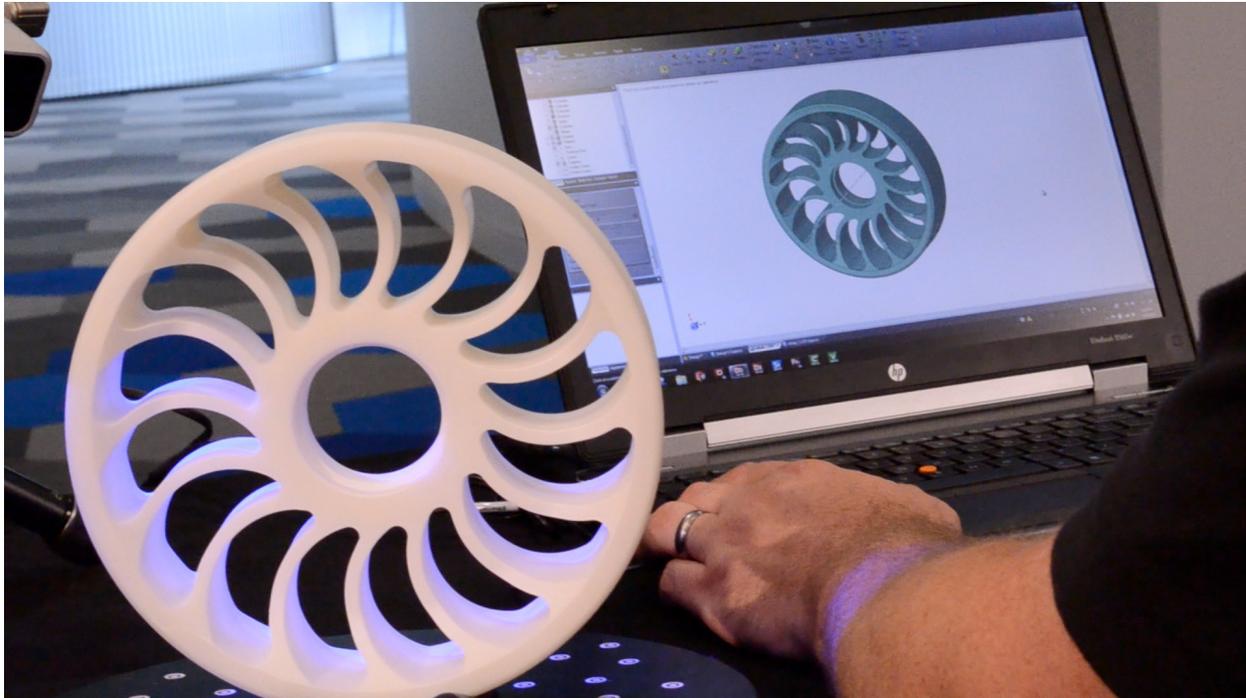


Figure 1: Scan-to-CAD forms the first part of the Engineering Digital thread

With this demonstration, 3DS continues its strong record of advancing core Department of Defense technology, from direct manufacturing components for the Joint Strike Fighter and T-Hawk unmanned micro air-vehicle to an array of rapid prototyping and medical device applications. 3DS’ technology also supports units as varied as Naval Undersea Warfare Center – Keyport, and Walter Reed National Military Medical Center.

As the ExLog Wargame illustrates, 3D printing is set to play a strategic role in directly supporting warfighter needs, on and off the battlefield. Recently, Vice Admiral Philip H Cullom, Deputy Chief of Naval Operations (CNO) for Fleet Readiness and Logistics with the U.S. Navy, illustrated the growing importance of advanced manufacturing in the armed forces.

“It’s my strong belief that 3D printing and advanced manufacturing are breakthrough technologies for our maintenance and logistics functions of the future,” said Vice Admiral Cullom in a video launching the [Print the Fleet initiative](#), a series of workshops supported by the CNO’s Rapid Innovation Cell. “We can gain new capabilities to make rapid repairs, print tools and parts where and when they are needed, carry fewer spares and, ultimately, transform our maritime maintenance and logistics supply chain.”

View 3DS’ technology at work on this video: <http://youtu.be/Hymam20SmqM>

Learn more about 3DS’ commitment to manufacturing the future today at www.3dsystems.com.

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About 3D Systems

3D Systems is pioneering 3D printing for everyone. 3DS provides the most advanced and comprehensive 3D design-to-manufacturing solutions including 3D printers, print materials and cloud sourced custom parts. Its powerful digital thread empowers professionals and consumers everywhere to bring their ideas to life in material choices including plastics, metals, ceramics and edibles. 3DS’ leading healthcare solutions include integrated 3D planning and printing for personalized surgery and patient specific medical and dental devices. Its democratized 3D design and inspection products embody the latest perceptual, capture and touch technology. Its products and services replace and complement traditional methods with improved results and reduced time to outcomes. These solutions are used to rapidly design, create, communicate, plan, guide, prototype or produce functional parts, devices and assemblies, empowering customers to manufacture the future.

Leadership Through Innovation and Technology

- 3DS invented 3D printing with its Stereolithography (SLA) printer and was the first to commercialize it in 1989.
- 3DS invented Selective Laser Sintering (SLS) printing and was the first to commercialize it in 1992.
- 3DS invented the Color-Jet-Printing (CJP) class of 3D printers and was the first to commercialize 3D powder-based systems in 1994.
- 3DS invented Multi-Jet-Printing (MJP) printers and was the first to commercialize it in 1996.
- 3DS Medical Modeling pioneered virtual surgical planning (VSP) and its services are world-leading, helping many thousands of patients on an annual basis.

Today its comprehensive range of 3D printers is the industry's benchmark for production-grade manufacturing in aerospace, automotive, patient specific medical device and a variety of consumer, electronic and fashion accessories.

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