

## **News Release**

### **DSTA AND THYSSENKRUPP MARINE SYSTEMS DIVE INTO ADDITIVE MANUFACTURING FOR SUBMARINES**

Singapore's Defence Science and Technology Agency (DSTA) and thyssenkrupp Marine Systems signed a Memorandum of Understanding (MOU) to collaborate on new technologies such as additive manufacturing and data analytics for naval applications.

Under the agreement, DSTA and thyssenkrupp Marine Systems will explore the use of additive manufacturing as an innovative, cost-effective method for producing submarine spare parts. Both parties will work together on the design, engineering, and qualification of additive manufactured components, which could be tested and trialled on Singapore submarines. The agreement was signed prior to the launch ceremony of the Republic of Singapore's Navy first Invincible-class submarine, *Invincible*, in Kiel, Germany on 18 February 2019.

Mr Tan Peng Yam, Chief Executive of DSTA: "In this age of rapid change, collaboration is key to exploit novel technologies. We are excited to combine our expertise with thyssenkrupp Marine Systems in additive manufacturing."

Dr Rolf Wirtz, CEO of thyssenkrupp Marine Systems: "This initiative is a prime example of our understanding of innovation: We are engineering tomorrow together. The MOU allows us to test parts manufactured in Kiel with additive manufacturing under real conditions. This is a great asset for us."

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About the Defence Science and Technology Agency

The Defence Science and Technology Agency (DSTA), a statutory board under Singapore's Ministry of Defence, exploits science and technology, and provides technological and engineering support for Singapore's defence and security. It delivers leading-edge technological solutions to the Singapore Armed Forces (SAF) by tapping the best technologies and fostering an environment of innovation for defence applications. Its role spans the entire spectrum of capability planning, development, and sustainment of weapon systems throughout their life cycle to ensure that the SAF continue to be a formidable fighting force.

Visit [www.dsta.gov.sg](http://www.dsta.gov.sg) for more information.

About thyssenkrupp Marine Systems

thyssenkrupp Marine Systems is one of the world's leading system suppliers for submarines and naval surface vessels. The company has a history of naval shipbuilding that dates back centuries and offers state-of-the-art technologies, innovations and extensive and dependable services to customers around the world.

More information at: [www.thyssenkrupp-marinesystems.com](http://www.thyssenkrupp-marinesystems.com)