

NEWS RELEASE

DSTA AND GHOST ROBOTICS TEAM UP ON ROBOTIC TECHNOLOGIES

Singapore's Defence Science and Technology Agency (DSTA) partners with Ghost Robotics® of Philadelphia, US, to accelerate the development of mobile robotic systems and related technology enablers, for operations in challenging urban terrain, and harsh and unstructured environments.

Under an agreement signed ahead of the Singapore Defence Technology Summit 2021¹, both parties will identify, test, and develop novel technologies and use cases for legged robots (quadrupedal unmanned ground vehicles) for security, defence, and humanitarian applications. The robots will be integrated with multi-axis manipulators to enhance how they interact with their environment and objects within it; and power technologies (such as solid-state batteries or fuel cells) will allow systems to remain in operation for extended periods of time.

Additionally, new robotic control capabilities will be explored by pairing robots from Ghost Robotics with the DSTA-developed Robotics Command, Control and Communications system. This would in turn enable simultaneous control and monitoring of multiple systems to develop a consolidated situation picture for coordinated missions.

"In the world of fast-evolving technology, close collaboration between organisations is imperative to co-create use cases and innovative solutions. In partnering Ghost Robotics, DSTA hopes to advance robotic capabilities in defence and shape the battlefield of the future. We envision that robots would one day become a defender's best friend and be deployed to undertake more risky and complex operations in tough terrains," said DSTA's Deputy Chief Executive (Operations) and Director Land Systems, Mr Roy Chan.

"This new Collaborative Agreement provides Ghost Robotics and DSTA with exciting opportunities to translate cutting-edge robotics systems to mature use cases and applications. Together with the operational know-how from DSTA, we will bring forth a revolution in how legged robots can be deployed," said Ghost Robotics' Chief Executive Officer, Mr Jiren Parikh.

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¹ Hosted by DSTA from 12-15 October 2021, the Singapore Defence Technology Summit gathered global thought leaders from government, industry, academia and think tanks, to network, confer, and collaborate in the development of defence and security capabilities. Visit www.techsummit.sg for more information.

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About the Defence Science and Technology Agency

The Defence Science and Technology Agency (DSTA) is a top-notch technology organisation that drives innovation and delivers state-of-the-art capabilities to make the Singapore Armed Forces a formidable fighting force. Our engineers and IT professionals harness multidisciplinary expertise to equip our soldiers with advanced systems to defend Singapore. DSTA also contributes its technological expertise to support national-level developments. To achieve its mission, DSTA performs a variety of roles ranging from acquisition and procurement to cybersecurity and software development. DSTA also builds up a strong community of engineers and scientists from the universities, research institutes, government and industry to serve the needs of the nation. Visit www.dsta.gov.sg for more information.

About Ghost Robotics

Robots that Feel the World®

Ghost Robotics® is the market leader for unstoppable legged ground drones (quadrupedal unmanned ground vehicles, Q-UGV™) for military, homeland, public safety and other high-availability and demanding government and enterprise markets. Ghost's agile, and all-environment Q-UGVs have superior operability over wheeled, tracked, and competitive legged robots in unstructured environments. Our open architecture hides the complexity of integrating payloads, as well as operating and maintaining our ground drones in mission-critical scenarios. The company's underlying IP will be the foundation for a broad portfolio of future robotic platforms with the fidelity-of-life, manipulators, gimbals, and human enhancement hardware. Ghost Robotics is privately held and headquartered in Philadelphia, PA, U.S.A. Visit www.ghostrobotics.io for more information.