

24 March 2023

News Release

DSTA AND RAFAEL TO COLLABORATE
ON SMART TECHNOLOGIES

Singapore's Defence Science and Technology Agency (DSTA) and Israel's Rafael Advanced Defense Systems Ltd. (Rafael) will jointly accelerate the implementation of smart technologies for potential use in urban operations, including incident response and counter terrorism.

Both organisations have established Implementation Agreements to collaboratively explore advancements in the use of synthetic data to train computer vision algorithms and in the application of visual odometry for soldier navigation. The agreements were announced on the sidelines of the Singapore Defence Technology Summit¹ 2023.

With these collaborations, DSTA and Rafael seek to overcome the lack of conventional data for the training of computer vision algorithms to detect threats in urban environments, as well as to develop enhanced methods of tracking a soldier's position and movements in challenging indoor environments with better accuracy.

DSTA's Director Land Systems, Mr Alex Lee Siang Meng, said, "To be a nimble defence technology innovator, DSTA taps synergies across global defence and commercial industry players. This collaboration will enable us to deepen technical knowledge and research exchanges in the exciting fields of computer vision and indoor navigation. In doing so, we hope to harness the transformative potential of these technologies for Singapore's defence."

Rafael's Executive Vice President for Research and Development, Dr Judith Hocherman-Frommer, said: "As a leader in developing cutting edge technology,

¹ Hosted by DSTA, the Singapore Defence Technology Summit is a unique gathering of global tech leaders from government, industry, academia, and think tanks, to network, confer, and collaborate in the development of defence and security capabilities. For more information, visit <https://www.techsummit.sg>.

Rafael is proud to collaborate and strengthen this partnership. We are embarking on this mission together to enhance our capabilities in the field of smart technologies.”

- E N D -

About 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. Harnessing and exploiting science and technology, our engineers and IT professionals leverage 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 our mission, DSTA excels in systems engineering, digitalised platforms, cyber, software development and more.

Visit www.dsta.gov.sg for more information.

About RAFAEL Advanced Defense Systems Ltd.

RAFAEL Advanced Defense Systems Ltd. designs, develops, manufactures, and supplies a wide range of high-tech defense systems for air, land, sea, cyber and space applications. The company offers its customers a diversified array of innovative solutions at the leading edge of global technology, from underwater systems through naval, ground, and air superiority systems to space systems.

Visit www.rafael.co.il for more information.