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News Release

PROTECTIVE FACE SHIELDS IN BATTLE AGAINST COVID-19

Recognising the global shortage of surgical masks and personal protective equipment (PPE), engineers from the Defence Science and Technology Agency (DSTA) have come up with an alternative to solve the supply challenge.

To offer additional protection for personnel at the frontline of service, DSTA engineers designed FaceProtect+, an adjustable and reusable face shield to protect users and those they interact with, against accidental fluid splashes and droplets. DSTA is working with industry partner Racer Technology Pte Ltd to locally manufacture the FaceProtect+ and are in the process of supplying the face shields to various public agencies, including the Ministry of Defence and the Singapore Armed Forces, the Ministry of Manpower and the Land Transport Authority.

The FaceProtect+ has an adjustable frame that caters to different face sizes, including bespectacled wearers, making it more ergonomic to use. It also has a wider, longer and thicker visor as compared to commercial off-the-shelf face shields, increasing coverage of the face and making it more resilient for use outdoors where winds may be strong. In addition to being reusable and easy to maintain by washing with soap and water after use, FaceProtect+ is also designed such that the visors can be easily replaced should there be any wear and tear.

Mr Shawn Chew, Senior Engineer from the National Security Programme Centre in DSTA, said: “With the heightened demand for PPE, our engineers started to design and prototype a cost-effective, lightweight and reusable face shield that offers an extra layer of protection for our frontline workers.”

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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.

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