

PRESS RELEASE

HORSELL AWARDED \$53.6M CONTRACT FOR SUPPLY OF “TJIOY” STEALTH TECHNOLOGY TO AUSTRALIAN DEFENCE FORCE



Announcement

Southbank, 1 April 2022

With increased political and military threats in the Asia Pacific region and conflict in Europe, the Australian Defence Force must continue to punch above its weight in support of its national interests and those of its neighbours and allies. A key aspect of this is maximising Australia's limited military size using low observable technology (LO technology as a sub-discipline of military tactics and passive and active electronic countermeasures) to win the fight.

Whilst previously kept out from the budget announcements due to the protected nature of this technology, Horsell today announces it has been awarded a \$53.6m (AUD) contract to deliver and support the proven TJIOY Stealth Technology to the Australian Defence Force (ADF).

“Our team has been working on this technology for almost a year now and we are excited to be able to announce this contract which comes into effect 1 April 2022 for a period of 10 years” says Mr Drew Horsell, Founder and Director of Horsell. “Australian small business is at the forefront of supporting our service personnel and the technology works well beyond what was previously imaginable as a gaming technology.”

Successful system integration and testing has already been conducted in the last 6 months in cooperation with both Navy and Army using surface vessels, rotary winged aviation and land vehicles as seen in the accompanying images and available at the website www.horsell.com.au/TJIOY.

Horsell's Head of Design, Mr Raymond Kent stated “It was extremely difficult for all parties to conduct the testing under the guise of normal military training exercises across Australia however, following successful completion in January, the Department [of Defence] was keen to contract our technology to be fitted to a deployable joint force element. Essentially TJIOY is multispectral disruptive stealth technology that simulates an alternative vision to counter modern target acquisition and surveillance systems and masks the true shape of an asset into a less threatening object.”

The images to the right show the MRH90 in flight by day with the TJIOY panels fitted but when the system is activated and the asset is then observed through either an Image Intensifying (II) or Infrared (longwave LWIR or shortwave SWIR) device, it is depicted as a large bird (see zoomed inset image in red) that travels with the same properties (angle, speed and direction) of the asset regardless of the light spectrum of the technology being used to detect it.

Whilst the TJIOY Stealth technology suite has been fitted and tested to the Army's multi-role helicopter MRH 90 it can also be fitted to its incoming replacement the Sikorsky UH-60M Black Hawk.

Mr Horsell added that “rotary winged aviation assets were the hardest of the solutions with their agility in flight and to alter the identified object to a large bird in flight was seen as a real challenge to our team after our original proposal was for a light aircraft to be the simulated output however Defence set us a challenge and we accepted it.” “Those NCOs that normally sit in the back of the room with all their bright ideas may have pushed us further than we thought we could have achieved so maybe we should continue to listen to them,” said the former Army Officer.



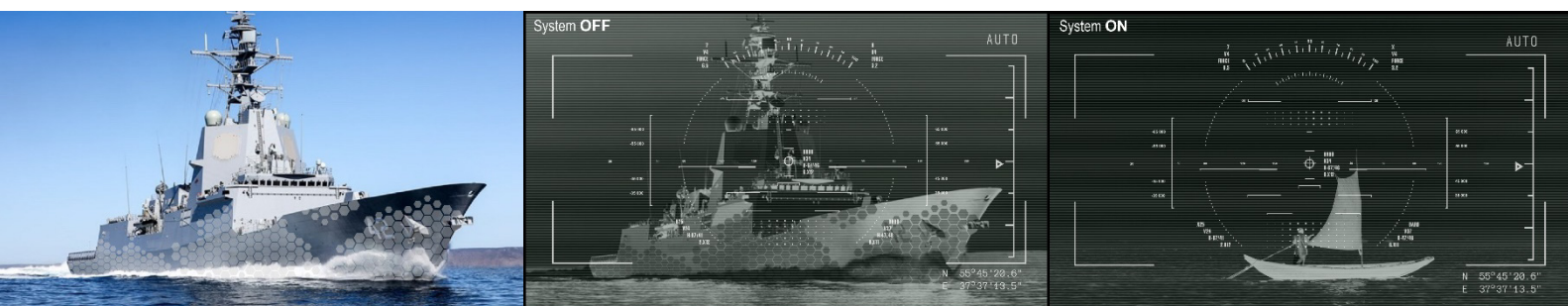
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Horsell has also integrated and tested TJIOY on Army's M1A1 Abrams Tank as shown below where the asset is depicted as Mr Horsell's own Jeep Grand Cherokee, which when in service would distract and delay an enemy thinking a troop of lethal armoured fighting vehicles was simply a group of weekend 4WD enthusiasts.



In supporting the deployable joint force concept, the ADF also trialled integration and testing of the TJIOY Stealth technology to it's Hobart Class Air Warfare Destroyer (AWD) for the Royal Australian Navy. AWDs provide air defence for vessels, land-based forces and infrastructure in coastal lines. It will also defend and destroy missiles and aircraft within a range of 150km so the addition of the TJIOY Stealth Technology is of significant added benefit to sail close to an enemy ship or land based position under the perception of a simple fishing dhow as shown below as found in the Indian Ocean and surrounding waters of Australia's maritime boundaries and regional areas of interest.



To find out more about TJIOY, get in touch with Horsell as below or head to www.horsell.com.au/TJIOY.

About Horsell

Horsell Consulting Pty Ltd (Horsell) is a 100% Australian, family and veteran owned professional services business which has proudly assisted several government and industry clients since 2007. As a related company, Horsell Technology Pty Ltd was incorporated on 8 December 2021 in Melbourne, Australia.

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