



FUTURE LAND FORCES

*NEXT-GENERATION OF SHORT-RANGE
RECONNAISSANCE*

Defining the Future of Aerial Intelligence



Short Range Reconnaissance (SRR)

Program of Record



Short Range Reconnaissance (SRR)

SRR is intended to be an inexpensive, rucksack portable, vertical take-off and landing (VTOL) small unmanned aircraft that provides the platoon with a rapidly deployed intelligence, surveillance, and reconnaissance (ISR) capability to provide situational awareness beyond the next terrain feature.



Program Of Record

Teal Drones is one of two companies, down-selected from an original 37, competing for a multi-year program of record to supply Short Range Reconnaissance drones to the U.S Army. A contract award would solidify Teal's position as a true leader in the sUAS industry and would enable continued acceleration of bleeding-edge technology into the hands of the U.S. Department of Defense and NATO Allies.

SRR Tranche 2

PRODUCTION CONTRACT:
~6000 Systems



STATUS

Awaiting contract award
announcement in Nov 2024

Red Cat ARACHNID™ Family of Systems

Defense Solutions



TRICHON™



BLACK WIDOW™



FANG™



WEB™

Family of Portable, Low-Cost, Field-
Repairable, and Recoverable ISR and
Precision Strike Systems

Robustness to EW Environments

Jamming & Spoofing of GPS and UAS Communications

The Black Widow™ has been hardened to provide continued operations in today's harsh EW environments:

- [M-Code GPS](#) – the latest in military GPS (superceding SAASM) with improved jamming resistance via satellite high-gain antenna spot-beaming, improved anti-spoofing via MNSA encryption, and Blue Force Tracking / Blue Force Electronic Attack Compatibility
- Doodle Labs [Helix Mesh Rider® Radio](#) [M1–M6 bands], Frequency-Stepping MANET, FIPS 140-3 Compliant (AES 256-bit encryption); the only fully-compliant “Blue UAS” radio
- Visual Odometry (and soon vision-based NAV), for continued overland operation if GPS becomes compromised
- Stealth-Mode Operation, allowing mission execution with radios **OFF**, for ISR & Mapping Missions



The Russian R-330Zh **Zhitel** EW jamming system can shut down, over tens of kilometers, GPS and satellite communications. This image shows the base of one of the four antennas in a typical setup.











The Russian 1L265 **Moskva-1** is a precision HF/VHF ES receiver that is used to passively detect and analyze an opponent's transmissions, such as that of drone operators.

Red Cat Futures Initiative

Integration Partners



| | Partner | Technology |
|---|--|--|
|  | Primordial Labs | Voice Commands/GPS Denied |
|  | Reach Power | In-Flight Recharging |
|  | Ocean Power Technologies | Ocean-Energy Harvesting & USVs |
|  | Athena AI | Automated Target Detection/Recognition (ATD/ATR) |

| | Partner | Technology |
|---|-----------------------------------|------------------------------------|
|  | Sentien | Nest/Hive Auto-Recharging |
|  | MMS | Modular Miniature Munitions & more |
|  | Hoverfly | Tethered UAS |
|  | Reveal Technology | Vision-Based Mapping |

Tomahawk Robotics Ecosystem

Kinesis and Grip Kit

AI CAPABILITIES

Mission Planning



Indications & Warnings



Enhanced Autonomy



Aided Target Recognition



Training & Simulation



TACTICAL NETWORK



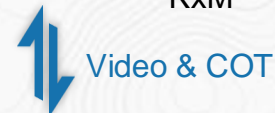
Grip S20



AI-Enhanced



KxM



Video & COT



UNMANNED SYSTEMS



sUAS



Blue sUAS



SRR



nUAS/SBS

STANAG-4586

MAVLink

ROS/ROS2

RAS-G IOP



UGV



CRS-I



SMET