



## CASE STUDY SUMMARY

# **AVERT** **MPO**

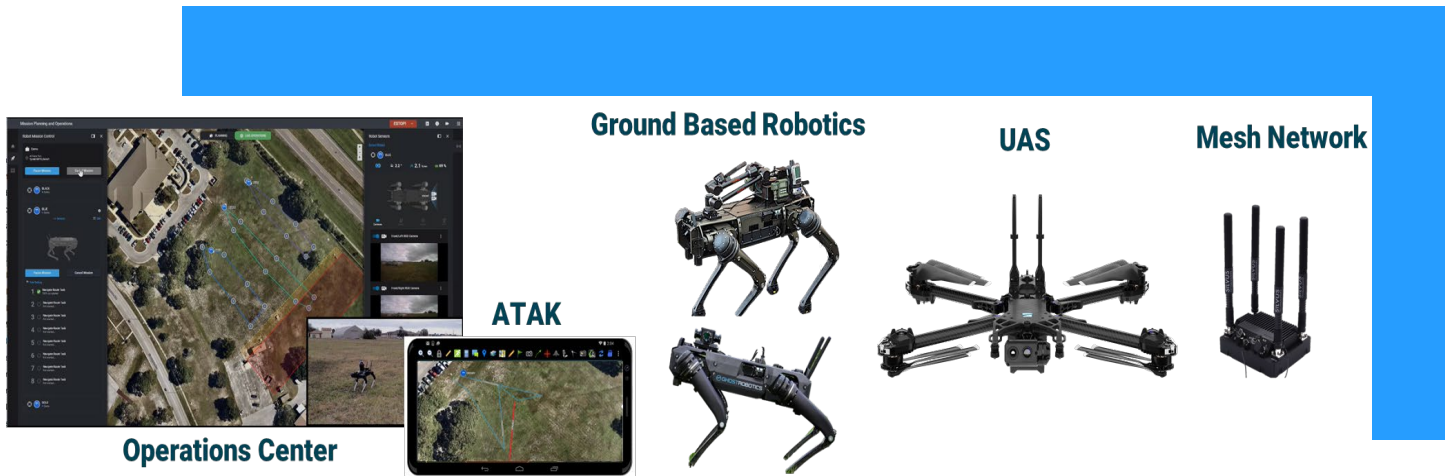
**MISSION PLANNING & OPERATIONS**

AVERT Mission Planning and Operations (MPO) provides the BDOC operator the ability to control the mission and operations for multiple Quadraped Unmanned Ground Vehicles (Q-UGVs) and surveillance Unmanned Aerial Systems (UAS), all from a single remote terminal. Powerful sensors and non-lethal / lethal weapon systems on robotic platforms can take on the perimeter security mission and can keep airmen out of harm's way while increasing the ability to detect intruders. AVERT MPO integrates all sensors into a common operational picture to support situational awareness and coordinates effective incident response through 2-way communication with Defenders via ATAK. The map based common operational picture allows the BDOC operator to escalate incidents that are triggered by AI object detection on RGB / thermal cameras. All of this information, conveyed through an intuitive display, puts the operator and leadership in the optimal position to make rapid decisions that achieve the desired results.

## OBJECTIVE

Deploy remote Mission Planning and Operations for multiple Q-UGVs in support of Agile Combat Employment (ACE) mission objectives and installation security needs.

# SOLUTION



The following is a link to a video prepared by the 325th Public Affairs Office at Tyn dall AFB, highlighting their work with ARES and AVRT MPO <https://fb.watch/dxN78qMhCS/>

## RESULTS

On 2 June 2022, the 325SFS conducted a perimeter security exercise to simulate future execution of Agile Combat Employment (ACE) and real-world contingency operations at the Silver Flag area on Tyn dall AFB.

The exercise included a rapid deployment of perimeter security with AVERT MPO operating from a tent adjacent to the flightline. Multiple robodogs were sent out on mission to patrol the flightline perimeter, looking for intruders. The 325th Opposition Force (OPFOR) staged an intruder's attempt to gain access to the flight line and the jet on the taxiway. AVERT MPO was used as the remote C<sup>2</sup> node to update Q-UGV/ UAS missions, provide the common operational picture integrating intelligent Q-UGV/ UAS sensors, as well as engage a contingent of 325th SFS Defenders via ATAK to interdict the intruders.