

**THE ARMY'S
ROBOTICS &
AUTONOMOUS
SYSTEMS**

DEVELOPMENT STRATEGY

**A BRIDGE TO
MODERNIZE
TECHNOLOGY**

AUTONOMY. INNOVATION. AI.

Increasing Operational Options Using RAS Technology and Innovation

Advancing robotics and autonomous systems has been a major initiative for the Dept. of Defense for more than 20 years. These types of systems have the potential to completely change the capabilities and future strategies of the DoD. Our military and government need to keep pace of the implementation plans of autonomous systems and robotics to further advance abilities of our warfighters. Getting new technologies in the hands of our Nation's defense will ultimately help us to achieve domain superiority, freedom of maneuver, and will completely alter the way we protect our nation.

Ahead of the upcoming **Robotics & Autonomous Systems Summit**, taking place this June 25 - 27 in Detroit, we took a glance at the U.S. Army's development strategy for the modernization of robotics and autonomous technology. The Army's five-step development process, known as SIDRA, links the strategy's ways and means. The five steps include: sustaining current systems, improving existing systems, developing new capabilities, replacing obsolete systems, and assessing new technologies and systems. On the next page, you will find the details for each step of the process.



(U.S. ARMY PHOTO)

SUSTAIN CURRENT SYSTEMS

- Maintain current fleet of tele-operated UGSs and remotely piloted UAS
- Recapitalize older robots



(US MARINE CORPS PHOTO)



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IMPROVE EXISTING SYSTEMS

- Field a universal controller for legacy and new programs
- Field autonomous technologies within UGS and UAS where possible
- Refine automated ground resupply operations as the Army's first semi-autonomous vehicle

DEVELOP NEW CAPABILITIES

- Develop off-road autonomy for unmanned combat vehicles
- Develop swarming for advanced reconnaissance
- Develop artificially intelligent augmented networks and systems



(U.S. ARMY PHOTO)



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REPLACE OBSOLETE SYSTEMS

- Replace non-standard equipment systems with new programs of record
- Replace manned systems with unmanned systems to allow Soldiers to perform other tasks

ASSESS NEW TECHNOLOGIES AND SYSTEMS

- Continue assessments on the state of UGS and UAS autonomy to ensure systems progress with available technology
- Determine where technologies can serve cross-domain solutions, especially with new payloads



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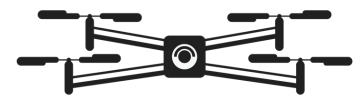
[Anticipated Attendee Snapshot](#)

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AGENDA

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August 22 - 24, 2018 // Washington, D.C

There is nothing like attending a face-to-face event for knowledge gathering and networking. We don't have to tell you how helpful it can be to get a hands-on demo of a new tool or to have your questions answered by experts. Counter-UAS aims to provide a forum for military leaders, program executive officers, industry executives, academics and researchers from across the U.S share and discuss both theoretical and practical knowledge. This year's summit will cover topics including:

- Military's Counter-UAS acquisition goals
- Countering drone swarms
- Defending against autonomous UAS
- C-UAS requirements
- Protecting critical infrastructure
- Soft kill and hard kill technologies
- Use of UAS by terrorist groups
- Military's Counter-UAS requirements
- Mounted C-UAS weapon systems
- Directed energy weapons

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