

USAFRICOM

Mission Statement

U.S. Africa Command, with partners, counters transnational threats and malign actors, strengthens security forces and responds to crises in order to advance U.S. national interests and promote regional security, stability and prosperity.



J8 Innovation Outreach

Do you have a emerging technology that may address an AFRICOM S&T Focus Area?

Please contact the AFRICOM Innovation Team via email:

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AFRICOM VULCAN Site:



USAFRICOM J8

Capability Challenge Areas



Director, ACJ8
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USAFRICOM

Joint Innovation Operations

Mission

Proactively identify sources that adapt and rapidly integrate emerging technologies, innovative ideas, and novel operational concepts by further closing critical capability gaps for the joint warfighter and combined force

Vision

To forge an ecosystem of innovation that accelerates the delivery of decisive asymmetric advantages to our Joint Warfighters at the edge of conflict, and enables partner capacity to effectively contribute to solving 21st-century threats in the AFRICOM AOR



Science & Technology Focus Areas

Personnel Recovery & Accountability

- Drone-assisted ops.
- Expeditionary friendly force tracking (Air/Land)
- Emergency locator beacons
- Contested PR support

Non-traditional and Digital ISR

- Long-range / long-endurance
- Low payload SWAP
- Multi-Domain AMTI / GMTI
- Tagging / tracking / locating; detection of WMD
- Commercial ISR integration

Global Integration Enablers

- All Domain Awareness (Air / Space / Maritime)
- Global Fires Integration
- Defense Economics Tech Enablers

Operational Energy

- Micro and austere energy generation solutions
- Unique water creation / purification solutions
- Waste-to-energy disposal
- Energy-efficient structures (housing, offices)

AI/ML & Enhanced Data Analytics

- Maven Smart Systems and Advana Integration
- Biometric and Forensic support
- Operational Medicine Info Systems
- Mission Partner Bi-directional support

Resilient Communications / Assured PNT

- C4I enhancement (OCONUS Cloud, global fires network)
- C5ISR and expeditionary data transport
- Cross-Domain Solutions for info-sharing
- Layered alternative PNT solutions

Austere Medical Support

- Rapid critical and surgical care (2-3 hours)
- Telemedicine
- Early disease prevention, detection, diagnosis, prevention
- Bio surveillance / Modeling / Informatics
- Drone delivery support

Mission Assurance & Protection

- C-UXS (Grps 1-3) for fixed base, convoys and maritime ops
- IAMD Augmentation / Integration (Grps 4 & 5)
- Distributed C2 and contested logistics enablers
- Low cost and attributable strike options

Environmental Monitoring

- Real-time severe weather detect/track/forecast
- Atmospheric profiling
- Austere airfield weather observing
- Space weather prediction & associated enhancements
- Light detection and ranging

Low Resource Language ID

- Language-agnostic speech technology.
- Rapid response automation for language identification.
- Specific targets are low-resource/low density languages