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CCDC C5ISR CENTER TECHNICAL DOMAINS

**S&TCD Technical Domains**
- Cyber/Network Defense
- Electromagnetic Spectrum Management
- Communications Waveforms
- Antennas/EMI/EMC Modeling & Simulation
- Satellite Communications & Control
- Tactical RF/Wireless Networking Technologies
- Net Ops/Net Management
- Information Assurance

**NVESD Technical Domains**
- EO/IR Imagers (Focal Plane Arrays, Optics, Real Time Image, Processing)
- Tactical Lasers
- Sensors Architectures
- EO/IR System Modeling, Characterization & Specification
- Tactical Augmented Reality
- Countermine/Counter-IED

**PRD Technical Domains**
- Manufacturing / Production Engineering
- Maintenance Concept Engineering
- System Sustainment Engineering
- Product / Technical Data
- Quality Engineering & Product Assurance

**CCDC C5ISR Technical Domains**
- Cyber/ EW/ SIGINT
- Mission Command
- EO/IR / RF Sensors
- Communications
- Position, Nav & Timing
- Tactical Power
- Sensors & Information Processing Architectures
- Tactical Power
- HW / SW Standards & Systems Engineering
- Lab-Based / Field-Based Risk Reduction & Evaluation

**I2WD Technical Domains**
- Cyber / Electronic Warfare / SIGINT Sensors
- Air/Ground Survivability
- Data Analytics, Frameworks & Visualization
- RADAR Applications & Processing
- Multi-INT Fusion, Processing, Exploitation Architectures
- Forensics, Threat Exploitation & Countermeasure Techniques
- Intelligence Support

**SED Technical Domains**
- Software Acquisition
- Software Engineering
- Software Testing
- Software Sustainment
- Software Assurance
- Risk Management Framework

**CP&I Technical Domains**
- Position, Navigation, & Timing
- Battlefield Computing Architectures
- Autonomy Navigation and Robotics
- Data Engineering, Decision Tools & Visualization
- Tactical Power & Energy Generation, Storage & Distribution
- Prototyping, Integration, & Evaluation
SINCE WE LAST SAW EACH OTHER…

We are officially part of Army Futures Command
THE ARMY’S MODERNIZATION PRIORITIES AND CROSS-FUNCTIONAL TEAMS (CFT)

SIX MODERNIZATION PRIORITIES:

1. Long Range Precision Fires
2. Next Gen Combat Vehicles (NGCV)
3. Future Vertical Lift (FVL)
4. Network/C3I
5. Air & Missile Defense
6. Soldier Lethality

EIGHT CFTS:

1. Long Range Precision Fires ★★
2. NGCV ★
3. FVL ★
4. Network/C3I ★★★
5. Assured PNT 🍺
6. Air and Missile Defense ★
7. Soldier Lethality ★
8. Synthetic Training Environment ★★★
S&T DELIVERABLES BY CROSS FUNCTIONAL TEAM

- Advanced Guidance type ATGM Soft-kill Countermeasures
- UAS/RAM Acquisition and Tracking Multi-Mode Radar
- Sensor Systems for 360 SA, Targeting, Mine Detection
- Secure, Robust Comms/Data Link
- Remote Autonomous System Mission Planning and Execution Tools
- Autonomous Navigation
- Advanced Threat Warning Algorithms
- Next Generation Threat Warning Sensors
- EO/RF Countermeasure Techniques and Technologies
- Sensor Payloads Enabling High Speed Pilotage, SA and Targeting
- Secure, Robust Comms/Data Link
- High Pulse Power Storage
- Thermal Load Management System
- Distributed Electronic Attack Techniques
- Multi Domain Battle Analytics
- Multi-INT and Blue Force Correlation Algorithms for Accurate Long-Range Targeting
- Offensive Cyber Tools for Planning and Execution
- Novel cueing, electronic support and geolocation sensors
- RF Spectrum Obfuscation for Comms EP
- Robust SATCOM
- Automated PACE Planning
- Squad Area Networking
- Inertial, Vision and Non-GPS Navigation
- Non-GPS Time Source and Dissemination
- Multi-Mission Radar Waveforms
- Adaptive Digital Beam Forming Techniques
- A2AD Electronic Protection Techniques
- Next Generation Low Cost Focal Plan Arrays for Seekers
- Secure, Robust Comms/Data Link
- Sensor Systems for Small Unit SA, Improved Decision Making and Enhanced Targeting in all Environments
- Secure, Robust
- Squad Area Networking
- Comms/Data Link

ARMY'S 6 MODERNIZATION PRIORITIES
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CCDC C5ISR Center, CPID Strategic Lines of Effort

Decisions at the Speed of Battle
Capability to make effective decisions at the point of action through simplifying computing infrastructure & reducing cognitive burden
- Predictive mission recommendations and alerts
- Simple, intuitive, consistent data across all environments
- Energy situational understanding and management

Assured Operations
Capability to conduct operations in GPS denied or disrupted conditions for dismounted and mounted Soldiers and autonomous systems
- Assured positioning, navigation & timing
- Assure access to sufficient energy supplies
- Mission command operations in degraded network conditions

Expeditionary Command & Maneuver
Capability to rapidly deploy, scale, and reconfigure command nodes to seize, retain, and exploit the initiative in a dynamic operational environment while maintaining freedom of maneuver
- Agile mission command and command post concepts
- Increased mission duration Soldier power

Rapid & Iterative Prototyping
Accelerate and enable rapid development of C4ISR capabilities to reduce the time, risk and cost of demonstrating and fielding advanced technology to the Warfighter
- Emphasize integration of technology with Soldiers & teams
- Simplify systems; maximize reliability & reduce life cycle costs
- Improve effectiveness under conditions of uncertainty
FY19 APBI
Update Since FY18 APBI

TOTAL ACTIONS BRIEFED: 3 BAA SOLICITATIONS

BAA SOLICITATIONS: 3

AWARDS IN-PROGRESS AT TIME OF FY18 APBI:

- Four (4) Defense Ordnance Technology Consortium (DOTC), DOTC W15QKN-14-9-1001 Other Transaction Agreement (OTA) Awards pending at time of FY18 APBI:
  - Initiative 0312, Awarded to EOIR Technologies on 5/31/2018.
  - Initiative 0899, Awarded to IS4S on 6/14/2018.
  - Initiative 0217, Awarded to T2S on 6/18/2018.
  - Initiative 0806, Awarded to IS4S on 6/28/18.
- CP&I Directorate-SETA contract W56KGU-18-C-0026 awarded to AASKI Technology Inc. on June 7, 2018

STRATEGY CHANGES:
- N/A
Mission Command Capabilities Opportunity – BAA Solicitation 1

Support includes: Machine Augmentation for Faster Operations - Specific focus is on simplifying computing infrastructure and reducing cognitive burden; and incorporating automation, artificial intelligence, and machine learning to enable mission planning, execution, predictions and alerts to speed decisions in battle.

**CONTRACT TYPE:** Broad Agency Announcement (BAA) Solicitation

**ESTIMATED VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG, Contracting Officer, Ms. Nina Bushnell, (443)861-4648, nina.m.bushnell.civ@mail.mil

**SOLICITATION #:** W56KGU-17-R-MC17 (expires 28 August, 2022)

**ESTIMATED SOLICITATION RELEASE DATE:** Opened on 10 August 2017. Interested parties should provide white papers in accordance with the instructions in the BAA announcement on the Federal Business Opportunities (FBO) webpage, available at https://www.fbo.gov/.

**PRIOR/CURRENT CONTRACT INFORMATION:**
- **Contract Number:**
- **Incumbent Contractor:**

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Power Opportunity – BAA Solicitation 2

Support includes: To provide Tactical/Expeditionary Power and Energy Services. CP&I continues to pursue advances in creating more efficient and energy dense power sources while shifting increasing emphasis on investments in power distribution and management research, in line with the OSD Operational Energy Office strategy, DA S&T priorities, and validated high priority operational needs.

**CONTRACT TYPE:** Broad Agency Announcement (BAA) Solicitation

**ESTIMATED VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG, Contracting Officer, Ms. Nina Bushnell, (443)861-4648, nina.m.bushnell.civ@mail.mil

**SOLICITATION #:** W56KGU-15-R-0032 (expires 3 November, 2020)

**ESTIMATED SOLICITATION RELEASE DATE:** Opened on 10 July 2015. Interested parties should provide white papers in accordance with the instructions in the BAA announcement on the Army Single Face to Industry webpage, available at https://acquisition.army.mil/, or on the Federal Business Opportunities (FBO) webpage, available at https://www.fbo.gov/.

**PRIOR/CURRENT CONTRACT INFORMATION:**
- Contract Number:
- Incumbent Contractor:

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Position, Navigation & Timing (PNT) Opportunity – BAA Solicitation 3


CONTRACT TYPE: Broad Agency Announcement (BAA) Solicitation

ESTIMATED VALUE: TBD

CONTRACTING CONTACT: ACC-APG, Contracting Officer, Ms. Nina Bushnell, (443)861-4648, nina.m.bushnell.civ@mail.mil

SOLICITATION #: W56KGU-18-R-PN22 (expires 30 November, 2022)


PRIOR/CURRENT CONTRACT INFORMATION:


Incumbent Contractor:

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Way Ahead / Future Concepts

- Continuous opportunities on BAAs
- No new contract actions for FY19
- Enhanced Mission Command
  - Exploration and understanding of the cyber domain’s impact on missions
  - Enable effective Mission Command with dispersed Command Posts
  - Distribution of enemy common operating picture (COP) to engage targets with joint strike assets in multi-domain operations

- Tactical Energy Independence
  - Development of power and energy materials and components to “Lighten the Load” for enhanced Soldier lethality
  - Energy storage, power and thermal management for Future Vertical Lift platforms

- Assured PNT
  - Real-time ability to understand the PNT RF environment and react to constantly changing threats
  - Rapidly re-configurable PNT sensors
  - PNT assurance across all terrains and all environmental conditions
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The purpose of this task order is to provide operations and technical services in support of efforts within C5ISR Center Headquarters and its subordinate directorates. Required services include program management, administrative, facility management, logistics, property management, security, software engineering support, systems administration support, systems analysis architecture, computer forensic investigation support, environmental and occupational safety and technical support required for the C5ISR Center to meet its mission and operational needs.

**CONTRACT VEHICLE:** RS3  
**CONTRACT TYPE:** CPFF  
**ESTIMATED VALUE:** $42M (12 mo. base with 4 ea. 12 mo. options)  
**CONTRACTING CONTACT:** ACC-APG, Contracting Officer, Mr. Nick Martin, 443-861-4681, nicolas.a.martin2.civ@mail.mil

**DRAFT SOLICITATION RELEASE:** 3QFY19  
**SOLICITATION #:** RS3-19-0065  
**ESTIMATED SOLICITATION RELEASE:** 4QFY19

**PRIOR/CURRENT CONTRACT INFO:**  
**Contract Number:** W56KGU-15-D-0005 0007  
**Incumbent Contractor:** CACI  
**Contracting Division** POC: Timothy Weiman

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C5ISR Center - Intelligence & Information Warfare
Strategic Lines of Effort

**Integrated Air/Ground Survivability (IAGS)**
- Technology to support a tiered, multi-int/multi-modal approach to survivability for Army platforms
- High performance detection technologies that improve detection, classification and countermeasures against emerging and unknown threats
- Techniques and capabilities with improved flexibility, adaptability, and sustainability to lower risk for future PORs and insertion into legacy survivability suites

**Converged Electronic Warfare, Offensive Cyber and SIGINT (CEWS) Operations**
- Advanced Airborne and Ground based capabilities leveraging well defined Hardware (HW) / Software (SW) standards to enable the commander to shape and effect the electromagnetic and cyberspace environment
- Capability to leverage sensors of opportunity to support collaborative collection, exploitation and offensive mission execution against adversary

**Multi-Function Ground Intel Surveillance & Reconnaissance (MFGISR)**
- Advanced SIGINT, Cyber/Electronic Warfare, Counter Intelligence (CI), HUMINT and Site-Exploitation (biometric, document, media and cellular) capabilities hosted on mobile platforms (terrestrial and aerial) in support of Intelligence Collection and ISR missions
- Resilient/protected/assured transport/reach-back to the intelligence enterprise in support of intel collection, processing, exploitation and dissemination

**Multi-Function Airborne Intel, Surveillance & Reconnaissance (MFAISR)**
- Architectures, processing and components that improve mission performance and flexibility, with increased reliability and sustainability, for the next generation ISR/RSTA sensor platforms
- High performing RF imaging technologies and processing techniques to augment next generation EO/IR in difficult environments (e.g. weather occluded, dense urban terrain and deeply forested) against challenging targets (e.g. concealed and camouflaged)

**Tasking, Processing, Exploitation & Dissemination (TPED)** (Tactical Situational Understanding)
- Maximize Intelligence value of sensors by providing Real-Time Situational Awareness, improved analyst workflow and enterprise throughput, improved analysis and vertical and horizontal PED integration
- Proactive sensor planning systems that adapt to near-real time deviations in the execution strategy
FY19 APBI
Update Since FY18 APBI

TOTAL ACTIONS BRIEFED: 8

RFPs RELEASED: 3

- Reconfigurable and Modular System Work (RMSW) (RS3-19-0006)
- Fabrication, Fielding, Integration Facility (FFIF) Support (RS3-18-0021, RFP closed)
- Flight Activity Maintenance & Modification Services Support (FAMMSS) (8(a) W56KGU-18-R-0002, RFP-closed)

ACTIONS AWARDED:

TIES Task Orders Awarded:

- Radar Intelligence, Surveillance and Reconnaissance (RSIR) Branch Engineering Services. $25M (awarded to EOIR Technologies, Inc. in April 2018)
- Offensive Electronic Warfare Operations. $9.8M (awarded to EOIR Technologies, Inc. in May 2018)
- Aircraft and Vehicle protection systems based on Engineering and Novel techniques. $48.9M (awarded to Booz Allen Hamilton in April 2018)
- C4ISR Technology Support. $13.5M (awarded to CACI Technologies, Inc. April 2018)

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FY19 APBI
Update Since FY18 APBI (Cont’d)

ACTIONS AWARDED (cont’d):

TIES Task Orders Awarded (cont’d):
- Advanced Sensing ID & Branch Engineering Services. $16.8M (awarded to EOIR Technologies, Inc. in May 2018)
- Tactical Identity Intelligence Resources Analysis. $39M (awarded to Leidos, Inc. in May 2018)

RS3 Task Orders Awarded:
- *Agile, Assessment & Applications. $41.9M (awarded to Booz Allen Hamilton in Sept 2018)
- *I2WD Communications, Computers, and Information (C2IM) Management Support $12.4M (awarded to CACI, Inc. in March 2019)

BAA Task Orders Awarded:
- Re-Scalable aperture for Precision Targeting Radar. $13M (awarded Sept 2018)
- Cyber Electronic Warfare Framework Research. $5.4M (awarded June 2018)

*Briefed at 2018 APBI

STRATEGY CHANGES:
- We are executing contracts with longer periods of performance

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CO2 Division Acquisition, Laboratory, and Engineering Support

Provide expert technical services and operational support of efforts within the Intelligence and Information Warfare Directorate (I2WD) CO2 Division. The major portions of effort are the operation and maintenance of the Information Operations Cyber Lab and High Fidelity Wireless Test Facility. The scope and purpose of this task order is to provide the requisite program management, technical support, property management, and administrative support necessary to meet mission and customer needs. Required services include: R&D, strategic planning, engineering, technical analysis, design, testing, evaluation, integration, modeling & simulation and equipment installation in a lab environment.

CONTRACT VEHICLE: RS3
CONTRACT TYPE: CPFF
ESTIMATED VALUE: $52M - $62M (24 mo. base with 2 ea. 18 mo. options)
CONTRACTING CONTACT: ACC-APG, Contracting Officer, Mr. Tim Ward, 443-861-4640, timothy.b.ward.civ@mail.mil.

DRAFT SOLICITATION RELEASE: 3QFY19
SOLICITATION #: RS3-19-0027
ESTIMATED SOLICITATION RELEASE: 3QFY19

Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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Provide programmatic and subject matter-level engineering support in the domains of infrared and radio frequency countermeasures throughout the aircraft and ground platforms. This Task Order (TO) will assist the design, development, integration, testing, documentation and transition of these Science and Technology efforts to other Department of Defense organizations to be matured and integrated into Programs of Record and Quick Reaction Capabilities. Additional support required will consist of purchasing and tracking of materials (logistics), financial tracking and reporting and security-related support to the Electronic Warfare Air/Ground Survivability (EWAGS) Division.

**CONTRACT VEHICLE:**
RS3

**CONTRACT TYPE:**
CPFF

**ESTIMATED VALUE:**
$95M - $100M (12 mo. base with 3 ea. 12 mo. options)

**CONTRACTING CONTACT:**
ACC-APG, Contracting Officer, Mr. Nick Martin,
443-861-4681, nicolas.a.martin2.civ@mail.mil

**DRAFT SOLICITATION RELEASE:**
3QFY19

**SOLICITATION #:**
RS3-19-0013

**ESTIMATED SOLICITATION RELEASE:**
3QFY19

**PRIOR/CURRENT CONTRACT INFO:**
Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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Cyber and Electronic Warfare Ground Support (CAGES)

Services include engineering support, program management support, technology integration development support, modeling and simulation support, research and development, data analysis support, prototyping, troubleshooting, laboratory testing support, field testing support, information technology support, acquisition support, quick reaction support, including using Electronic Counter-Measure (ECM) systems to support the Explosive Ordnance Disposal (EOD) mission. This includes lab testing utilizing EWAGS Coaxial Test Bed (CTB), anechoic chamber testing, field testing, support for EOD training events and demonstrations, developing and presenting training briefings, identifying current and emerging threats and ensuring interoperability of EOD equipment with EOD ECM.

CONTRACT VEHICLE: RS3
CONTRACT TYPE: CPFF
ESTIMATED VALUE: $92M - $97M (12 mo. base with 4 ea. 12 mo. options)
CONTRACTING CONTACT: ACC-APG, Contracting Officer, Mr. Nick Martin, 443-861-4681, nicolas.a.martin2.civ@mail.mil

DRAFT SOLICITATION RELEASE: 2QFY19
SOLICITATION #: RS3-19-0028
ESTIMATED SOLICITATION RELEASE: 3QFY19
PRIOR/CURRENT CONTRACT INFO:

Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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Radar Systems and Identification Division (RSID)
Engineering and Program Support

Provide engineering services and technical support for various programs that operate under the Radar Systems and Identification Division (RSID) of the Intelligence and Information Warfare Directorate (I2WD). The scope and purpose of this contract is to provide the requisite operational, program management, technical, engineering, integration, prototype development and fabrication, program support services and products necessary for I2WD to meet its mission and customer needs. The services to be provided by the contractor encompass a wide variety of program support for all elements of the Acquisition Cycle and the subsequent support of systems in the field.

CONTRACT VEHICLE: RS3
CONTRACT TYPE: CPFF
ESTIMATED VALUE: $22M - $27M (12 mo. base with 2 ea. 12 mo. options)
CONTRACTING CONTACT: ACC-APG, Branch Chief, Mr. Justin Donoghue, 443-861-5079, Justin.m.Donoghue.civ@mail.mil

DRAFT SOLICITATION RELEASE: 3QFY19
SOLICITATION #: TBD
ESTIMATED SOLICITATION RELEASE: 3QFY19
PRIOR/CURRENT CONTRACT INFO:

Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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Provide development and transition state of the art Science and Technology (S&T) applications in order to provide situational awareness, detection and radar warning technologies against both airborne and ground current and emerging threats. The objective of this task order is to provide engineering and programmatic support to the EWAGS Division to assist the design, development, integration, testing, documentation and transition of these S&T efforts to other Department of Defense organizations to be matured and integrated into Programs of Record and Quick Reaction Capabilities.

**CONTRACT VEHICLE:** RS3  
**CONTRACT TYPE:** CPFF  
**ESTIMATED VALUE:** $89M - $94M (12 mo. base with 4 ea. 12 mo. options)  
**CONTRACTING CONTACT:** ACC-APG, Branch Chief, Mr. Justin Donoghue, 443-861-5079, Justin.m.Donoghue.civ@mail.mil  
**DRAFT SOLICITATION RELEASE:** 3QFY19  
**SOLICITATION #:** TBD  
**ESTIMATED SOLICITATION RELEASE:** 3QFY19  
**PRIOR/CURRENT CONTRACT INFO:**  
  - **Contract Number:** N/A  
  - **Incumbent Contractor:** N/A  
  - **Contracting Division POC:** N/A

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Signals Intelligence (SIGINT), Navigation Warfare (NAVWAR) And Full-Scale Electronic Warfare (EW) (SNEW)

Provide Research, Development, Test, and Evaluation (RDT&E) engineering services, Logistics Support, and Training support activities for Signals Intelligence (SIGINT), EW, Cyber, and Navigation Warfare (NAVWAR) projects, DoD EW systems and their variants, to meet new and emerging EW threats. Efforts will provide Defensive Electronic Attack (DEA), Offensive Electronic Attack (OEA), Cyber Electronic attack, Electronic Protect (EP), and Electronic Surveillance (ES) capabilities for ground, air and space domains.

CONTRACT VEHICLE: RS3
CONTRACT TYPE: CPFF
ESTIMATED VALUE: $52M - $62M (24 mo. base with 2 ea.18 mo. options)
CONTRACTING CONTACT: ACC-APG, Branch Chief, Mr. Justin Donoghue, 443-861-5079, Justin.m.Donoghue.civ@mail.mil

DRAFT SOLICITATION RELEASE: 3QFY19
SOLICITATION #: 19-RS3-0015
ESTIMATED SOLICITATION RELEASE: 3QFY19
PRIOR/CURRENT CONTRACT INFO: Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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Flight Activity SOUTHCOM Support

Provide contractor support to maintain, sustain and train airborne surveillance systems, including TRACER, FALCON-I and Dionysus, and to integrate/flight test/evaluate upgrades, enhancements and new capabilities for the Army’s airborne ISR platforms. Support requires subject matter expertise in the application of MASINT, SIGINT, and IMINT technologies to support the development and validation of intelligence derived from the public domain sources. Will require knowledge of data discovery, extraction and prediction capabilities that alert operators to potential hot spots based on economic stability, political activity, and security resulting in changes to ISR collection plans.

**CONTRACT VEHICLE:** RS3  
**CONTRACT TYPE:** CPFF  
**ESTIMATED VALUE:** $30M - $36M (12 mo. base with 4 ea. 12 mo. options)  
**CONTRACTING CONTACT:** ACC-APG, Branch Chief, Mr. Justin Donoghue, 443-861-5079, Justin.m.Donoghue.civ@mail.mil  
**DRAFT SOLICITATION RELEASE:** 4QFY19  
**SOLICITATION #:** TBD  
**ESTIMATED SOLICITATION RELEASE:** 4QFY19  
**PRIOR/CURRENT CONTRACT INFO:**  
- **Contract Number:** N/A  
- **Incumbent Contractor:** N/A  
- **Contracting Division POC:** N/A

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The U.S. Army I2WD BAA program is organized by Army application discipline. The reader may note some overlap between sections. The research areas described may have short or long-range impact on Army Signals Intelligence (SIGINT), Electronic Intelligence (ELINT), Measurement & Signature Intelligence (MASINT), Electronic Warfare (EW), Information Operations (IO), Information Warfare (IW), Language Translation, Command, Control, Communication, Computers Intelligence, Surveillance, and Reconnaissance (C4-ISR) Integrity, Automatic Target Recognition (ATR), Combat Identification (CID), Radio Detecting and Ranging (RADAR), Aircraft and Ground Vehicle Survivability Equipment (ASE & GSE), Electro-Optics (EO), or Infrared (IR) requirements advancement.

**CONTRACT VEHICLE:**
BAA (Open Continuous)

**CONTRACT TYPE:**
CPFF

**ESTIMATED VALUE:**
N/A (Five years, Expires on August 25, 2019)

**CONTRACTING CONTACT:**
ACC-APG, Branch Chief, Mr. Justin Donoghue,
443-861-5079, Justin.m.Donoghue.civ@mail.mil

**DRAFT SOLICITATION RELEASE:**
N/A

**SOLICITATION #:**
W56KGU-14-R-A330 (formerly W56KGU-14-R-003)

**ESTIMATED SOLICITATION RELEASE:**
4QFY19

**PRIOR/CURRENT CONTRACT INFO:**
Contract Number: N/A
Incumbent Contractor: N/A
Contracting Division POC: N/A

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The U.S. Army I2WD BAA program is organized by Army application discipline. The reader may note some overlap between sections. The research areas described may have short or long-range impact on Army Signals Intelligence (SIGINT), Electronic Intelligence (ELINT), Measurement & Signature Intelligence (MASINT), Electronic Warfare (EW), Information Operations (IO), Information Warfare (IW), Language Translation, Command, Control, Communication, Computers Intelligence, Surveillance, and Reconnaissance (C4-ISR) Integrity, Automatic Target Recognition (ATR), Combat Identification (CID), Radio Detecting and Ranging (RADAR), Aircraft and Ground Vehicle Survivability Equipment (ASE & GSE), Electro-Optics (EO), or Infrared (IR) requirements advancement.

**CONTRACT VEHICLE:** BAA  
**CONTRACT TYPE:** CPFF  
**ESTIMATED VALUE:** N/A (5 Year, Open Continuous)  
**CONTRACTING CONTACT:** ACC-APG, Branch Chief, Mr. Justin Donoghue, 443-861-5079, Justin.m.Donoghue.civ@mail.mil

**DRAFT SOLICITATION RELEASE:** N/A  
**SOLICITATION #:** TBD  
**ESTIMATED SOLICITATION RELEASE:** 4QFY19  
**PRIOR/CURRENT CONTRACT INFO:**  
**Contract Number:** W56KGU-14-R-A330 (formerly W56KGU-14-R-003)  
**Incumbent Contractor:** N/A  
**Contracting Division POC:** N/A

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C5ISR Center-NVESD is researching and developing novel sensors that adapt to all environments and threats creating actionable information for the Soldier, in all domains and on all manned/unmanned platforms, to enable improved situational understanding, survivability, maneuverability, and lethal effects against peer threats.

**Objectives:**
- Multi-function
- Affordability
- Automation
- Maintain Survivability, Maneuverability, and Lethality

**Overmatch in all Environments**
- Interoperability/Networking
FY19 APBI
Update Since FY18 APBI

TOTAL ACTIONS BRIEFED: 2

RFPs RELEASED: Multiple RFPs released via Sensors, Communications and Electronics Consortium (SCEC)

STRATEGY CHANGES: Contracting strategy continues to mature to support rapid delivery of capabilities needed by the CFTs and mid- and long-term Science and Technology initiatives

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SENSORS, COMMUNICATIONS, AND ELECTRONICS CONSORTIUM (SCEC) OTHER TRANSACTION AGREEMENT

CONTRACT TYPE: Other Transactions Agreement (OTA) with subordinate prototype project agreements (PPAs)

ESTIMATED VALUE: No ceiling on OTA to manage consortium. Each PPA has its own ceiling which is limited by Army approval authorities.

STATUS OF OTA: AWARDED to SOSSEC, Inc.
AGREEMENT #: W909MY-18-9-0001

CONTRACTING CONTACT: ACC-APG-Belvoir, Ashley Seffernick, 703-704-0830, ashley.p.seffernick.civ@mail.mil and Michael McFadden, 703-704-0880, michael.a.mcfadden23.civ@mail.mil

SCE CONSORTIUM MANAGER: SOSSEC, Inc., Eugene Del Coco, edelcoco@sossecinc.com; 571-213-0478 (please contact Mr. Del Coco to join SCEC)

PRIOR/CURRENT CONTRACT INFORMATION: NONE

Scope Covers all of Team C5ISR and is Overseen by C5ISR Center

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SCEC ACTIVITIES

Mechanism for C5ISR Center and its partners to engage with industry and academia for advanced development and efforts to support their RAPID PROTOTYPING and LIMITED PRODUCTION requirements for SENSORS, COMMUNICATIONS, and ELECTRONICS TECHNOLOGIES needed to enhance the mission effectiveness of military personnel.

**Awarded:**

- Development, Research, and Engineering of Advanced Microbolometers and ROICs (DREAMr)
- Digital Dual Use Sensor
- Integrated Visual Augmentation System ICD
- Standards Compliant Low Light Level Camera
- Standards Compliant Thermal Camera
- SWIR Cameras for Integrated Visual Augmentation System

**In Development (not all inclusive):**

- Night Vision Sensor Data Architecture (NVSDA)
- Family of Weapon Sights-S
- Tactical Exploitation of National Capabilities (TENCAP)
- Next Generation Advanced Bomb Suit (NGABS)
- Virtual Prototyping Holodeck (VPH)
- Secure Intra-Soldier Wireless Module with Reduced Size and Power
- Video Analytics Capability Enhancements

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BROAD AGENCY ANNOUNCEMENT (BAA) FOR NIGHT VISION TECHNOLOGIES

CONTRACT TYPE: FFP, CPFF, Grants

ESTIMATED VALUE: Up to $50M Per Fiscal Year

CONTRACTING CONTACT (if known): ACC-APG-Belvoir, Lisa Duncan, 703-704-0157, lisa.m.duncan35.civ@mail.mil

SOLICITATION #: W909MY-14-R-D010

ESTIMATED SOLICITATION RELEASE DATE: 15 AUGUST 2014 (Amended JAN 17), Closes SEP 19

PRIOR/CURRENT CONTRACT INFORMATION: NONE

Follow-on in Development for Release in FY20

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Way Ahead / Future Concepts

- Emphasis on Delivery and Demonstration of New and Integrated Capabilities
- Prototyping, Integration and Experimentation for Delivery of Capabilities Quickly
- S&T alignment with Next Generation Combat Vehicle, Soldier Lethality and Future Vertical Lift Cross Functional Teams and Army Modernization Priorities

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Services for the C5ISR Center Product Realization Systems Engineering and Quality Directorate (PRD) include engineering support, program management, acquisition and strategic planning, technology integration development support, modeling and simulation support, research and development, test and evaluation, data analysis support, prototyping, troubleshooting, logistics, information technology support, training and education, quick reaction support.

**CONTRACT VEHICLE:**
**TASK ORDER NAME:** Combat Capabilities Sustaining Engineering Support
**CONTRACT TYPE:** CPFF
**ESTIMATED VALUE:** $96M (12 mo. base with 3 ea. 12 mo. Options $24M/yr.)

**CONTRACTING CONTACT:**
ACC-APG, Contracting Officer, Ms. Allison Gregory
443-861-4922, allison.a.gregory2.civ@mail.mil

**DRAFT SOLICITATION RELEASE:**
**SOLICITATION #:** RS3-19-0042
**ESTIMATED SOLICITATION RELEASE:** 4QFY19

**PRIOR/CURRENT CONTRACT INFO:**
**Task Order Number:** RS3-19-0042
**Incumbent Contractor:** N/A
**Contracting Division POC:** N/A

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CCDC C5ISR Center, S&TCD Strategic Lines of Effort

**Network Transport**
Research and develop mobile and expeditionary solutions that are hardened to operate in an actively contested and congested electromagnetic environment

- Automated Primary, Alternative, Contingency, Emergency communication plan operation
- Array of communication pathways
- Addressing fragile network connectivity

**Defensive Cyber**
Research and develop solutions for responsive speed, smaller footprint capabilities, and trust in the tactical network to dominate cyber electromagnetic activities (CEMA) against a near-peer threat.

- Machine learning for CEMA applications
- Secure and trusted data

**Automation and Intelligence**
Allows the Network to automatically adapt to the mission needs providing an optimized solution to adapt to changing enemy operations and environmental conditions

- Intelligent networking layer to adapt to link conditions
- Autonomous red-teaming to harden systems
- Moving from reactive to predictive responses to condition changes

**Resiliency**
Resilient systems allow for the operation of the Network in a hostile electronic warfare and aggressive cyber environment

- Low probability or detection / intercept
- Anti-Jam and interference mitigation
- Tracking data provenance

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FY19 APBI
Update Since FY18 APBI

TOTAL ACTIONS BRIEFED: 5 *

RFPs RELEASED: 9

- Novel Electromagnetic & Radio Frequency (RF) Development (NERF-D) for RFC Division*
  - Evaluation on-going under RS3 IDIQ Contract, Request for Task Order Proposal (RFTOP) RS3-19-R-0009, Currently under evaluation
- Modular Radio Frequency (RF) Communications for S&TCD Integrated Capabilities
  - Pending Award; Consortium for Command, Control, and Communications in Cyberspace Other Transaction Authority, Project: C5-18-0093
- Narrowband SATCOM Transport Controller Research (N-STCR) for SATCOM
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1814
- Millimeter Wave (mmW) Communications for RFC
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1804
- Manned/Unmanned Teaming (MUM-T) Communications NGCV for RFC
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1824
- Spectrum Obfuscation (WASP) for RFC
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1806

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RFPs RELEASED (cont’d): 9

- Cooperative Beamforming (D2TBS) for RFC
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1802
- Low Probability of Intercept/Low Probability of Detection/Squad Area Networks for RFC
  - Under Evaluation; S&TCD BAA-18-R-STCD; Topic: S1803
- Spectrum Obfuscation for RFC Division
  - Pending Award; Solicited Under BAA-18-R-STCD; Topic: S1806

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FY19 APBI
Update Since FY18 APBI (Cont’d)

ACTIONS AWARDED: 9

– Test & Engineering (T&E) Services for SATCOM Division*
  • Contract W15P7T-14-D-A220-KY03, Awarded to LinQuest Corporation on 22 May 2018

– Operations, Prototyping, Technology, Integration, Maintenance, and Installation Support (OPTIMIS) for SATCOM Division (formerly know as OTIS)*
  • Contract W15P7T-14-D-A218 W56KGU18F0005, Awarded to AASKI Technology Inc. on 31 August 2018

– Engineering and Support Services for CSIA Division*
  • Contract W15P7T-14-D-A211 W56KGU18F0002, Awarded to CACI Technologies Inc. on 22 August 2018

– Mission Research and Development (R&D) and Scientific and Engineering Technical Assistance (SETA) Support (Enterprise Lite) for Operations Division (formerly know as Enterprise)*
  • Contract W15P7T-14-D-A210 W56KGU18F0009, Awarded to Booz Allen Hamilton on 19 September 2018

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FY19 APBI
Update Since FY18 APBI (Cont’d)

ACTIONS AWARDED (cont’d): 9

– Ground Based Beam Forming and Geolocation for SATCOM Division
  • BAA-18-R-STCD Topic: S0812 Advanced Technologies for Fixed and Transportable Satellite Earth Terminals
  • Contract W56KGU-18-C-0019, Awarded to Comtech EF Data on 7 February 2018

– Interference Cancellation for SATCOM Division
  • BAA-18-R-STCD Topic: S1812: SATCOM Resiliency Technologies
  • Contract W56KGU-19-C-0003, Awarded to Cloud Juncxion Inc. on 12 February 2019

– Dynamic Spectrum Access (DSA) Rule Development and Validation for RFC Division
  • National Spectrum Consortium Other Transaction Authority
  • Contract W15QKN-15-9-1004-P00028, Awarded to the Consortium Management Group (CMG) on behalf of Advanced Technology International on 21 February 2018

– Wideband Interference Cancellation for SATCOM Division
  • Consortium for Command, Control, and Communications in Cyberspace Other Transaction Authority
  • Contract W15QKN-17-9-5555-P00041, Awarded to CMG on behalf of BAE Systems Information and Electronic Systems Integration Inc. on 1 June 2018

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FY19 APBI
Update Since FY18 APBI (Cont’d)

ACTIONS AWARDED (cont’d): 9

- Unmanned Aerial Systems and Aerostat Collaborative Operations for SEAMS Division
  - Consortium for Command, Control, and Communications in Cyberspace Other Transaction Authority
  - Contract W15QKN-17-9-5555-P00053, Awarded to CMG on behalf of Specialty Services on 14 August 2018

STRATEGY CHANGES:

- GAO protest of Enterprise award; Corrective action required altering the requirement and resoliciting. Resulted in successful award of Enterprise Lite
- S&TCD focus is using S&TCD BAA-18-R-STCD and various OTAs to execute work aligned to Army Modernization Priorities

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S&TCD Broad Agency Announcement

The Broad Agency Announcement (BAA), solicitation number BAA-18-R-STCD, is sponsored by the US Army Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center, Space and Terrestrial Communications Directorate (S&TCD) and will be valid for five (5) years from Jun 20, 2018 through 19 June 2023, unless terminated sooner. This BAA includes research interests covering six program Divisions: Cyber Security and Information Assurance (CSIA), Satellite Communications Systems (SATCOM), Systems Engineering, Architecture, Modeling and Simulation (SEAMS), Radio Frequency Communications (RFC), Tactical Communications (TC), Operations (OPS). Each Division has a specific mission area of responsibility in support of the Army's need for the most modern strategic and tactical networking technologies.

CONTRACT VEHICLE: BAA

CONTRACT TYPE: TBD (Per Action)

ESTIMATED VALUE: TBD (Per Action)

CONTRACTING CONTACT: ACC-APG, KO, Brian Holman, brian.j.holman2.civ@mail.mil, or the KS, Andrew Pilone, andrew.m.pilone.civ@mail.mil

DRAFT SOLICITATION RELEASE: N/A

SOLICITATION #: BAA-18-R-STCD (Updated June 2018)

ESTIMATED SOLICITATION RELEASE DATE: Varied (Continuous & Call Basis)

PRIOR/CURRENT CONTRACT INFORMATION:
- Contract Number: 13-R-A424; W56KGU-17-R-A424
- Incumbent Contractor: N/A
- Contracting Division POC: N/A

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R&D/SETA for Systems Engineering, Architecture Modeling & Simulation Division


CONTRACT VEHICLE: Anticipated RS3

CONTRACT TYPE: TBD

ESTIMATED VALUE: $100M-150M

CONTRACTING CONTACT: ACC-APG, KO Tammy Woodard

DRAFT SOLICITATION RELEASE: Anticipated 4QFY19

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: Anticipated 4QFY19

PRIOR/CURRENT CONTRACT INFORMATION:
  Contract Number: W91QUZ-06-D-0016-KY01, W91QUZ-06-D-0020-KY01
  Incumbent Contractor: SAIC, CACI
  Contracting Division POC: KO Tammy Woodward, KS Doreen Vedomey

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Required services include: Technical and engineering services and operational support with emphasis on tactical control and networking systems that rely heavily on IP connectivity utilizing SATCOM and terrestrial transport subsystems; advanced technologies in Network Operations (NetOPs) on the Battlefield with emphasis in advanced information processing, communications, sensor, and control technologies, survivability, information assurance, information dissemination management, network management, routing management technologies; advanced algorithms and techniques for Ad Hoc Network Design; Ubiquitous Wireless Mobile Communications Concepts and Technologies developing Next-Generation (NextG) concepts and technologies for Soldier Level (SL) wireless communications systems to meet the digital and mobile battlefield communications network requirements for the Objective Force (OF) of the 21st century.

**CONTRACT VEHICLE:** Anticipated RS3

**CONTRACT TYPE:** TBD

**ESTIMATED VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG, KO TBD by the ACC Branch Chief, Mr. Christopher Fisher

**DRAFT SOLICITATION RELEASE:** Anticipated 4QFY19

**SOLICITATION #:** TBD

**ESTIMATED SOLICITATION RELEASE DATE:** Anticipated 4QFY19

**PRIOR/CURRENT CONTRACT INFORMATION:**
- **Contract Number:** W15P7T-10-D-D421-KY01
- **Incumbent Contractor:** AASKI Technology Inc.
- **Contracting Division POC:** KO Brian Holman, KS Ross Rahkon

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Cyber Security Service Provider (CSSP), Sustaining Base Network Assurance Branch (SBNAB)

Required services include: Further the C5ISR Center in the cyber research mission by conducting research and developing a fundamental understanding of the dynamic cyber domain while providing 24/7 cyber defense operations and services within the Department of Defense environment; advanced detection methods; sensor structure, data optimization, and sensor architectures; tactical intrusion detection and evaluation methods; attack behaviors and threat prediction; certification and accreditation methods; continuous monitoring and risk scoring; psychosocial effects of cyber, and information assurance management.

**CONTRACT VEHICLE:** TBD

**CONTRACT TYPE:** TBD

**ESTIMATED VALUE:** ~ $100M+

**CONTRACTING CONTACT:** ACC-APG, KO TBD by the ACC Branch Chief, Mr. Christopher

**DRAFT SOLICITATION RELEASE:** Anticipated 4QFY19

**SOLICITATION #:** TBD

**ESTIMATED SOLICITATION RELEASE DATE:** Anticipated 4QFY19

**PRIOR/CURRENT CONTRACT INFORMATION:**
- **Contract Number:** W911QX-17-C-0018
- **Incumbent Contractor:** ICF INCORPORATED, L.L.C.
- **Contracting Division POC:** KO DANIEL P. DOUGHERTY

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Robust Orderwire for SATCOM Division

Required services include: Research and development of an orderwire for tactical SATCOM terminal users to communicate with Wideband SATCOM Operations Centers (WSOC) in a contested environment; supports interference detection and power control functions.

CONTRACT VEHICLE: BAA

CONTRACT TYPE: TBD

ESTIMATED VALUE: $3.5M

CONTRACTING CONTACT: ACC-APG, KO TBD by the ACC Branch Chief, Mr. Christopher Fisher

DRAFT SOLICITATION RELEASE: Anticipated 3QFY19

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: Anticipated 1QFY20

PRIOR/CURRENT CONTRACT INFORMATION: N/A
  Contract Number: 
  Incumbent Contractor: 
  Contracting Division POC: 

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Required services include: Research and Development to create TRL 6 products that implement machine learning/artificial intelligence/autonomy technologies to support the Brigade and Battalion Cyber Operators in securing the network and the future tactical network autonomous decision engines; Autonomous Cyber Program will include technologies that: leverage adversarial machine learning and generative adversarial networks to secure fielded autonomous decision engines; search through networks to proactively identify weaknesses, find vulnerabilities, and determine the most likely attack paths; leverage lightweight machine learning to prevent and detect human-based and machine-learning based cyber attacks; and decision support software to help S6 personnel make decisions and automate network defenses within the context of the Commander’s mission.

**CONTRACT VEHICLE:** BAA

**CONTRACT TYPE:** TBD

**ESTIMATED VALUE:** $20-$25M over FY20-FY24

**CONTRACTING CONTACT:** ACC-APG, KO TBD by the ACC Branch Chief, Mr. Christopher Fisher

**DRAFT SOLICITATION RELEASE:** Anticipated 3QFY19

**SOLICITATION #:** TBD

**ESTIMATED SOLICITATION RELEASE DATE:** Anticipated 2QFY20

**PRIOR/CURRENT CONTRACT INFORMATION:** N/A

- Contract Number:
- Incumbent Contractor:
- Contracting Division POC:

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Information Trust - CSIA Division

Required services include: Research and Development contract to create TRL 6 products that ensure the tactical network information which drives the human and automated military decision making processes is secure and trustable. The Information Trust program will include technologies that: are able to identify maliciously created or modified information based upon machine learning and specification analysis, improve user authentication, create trust scores for information and networked systems, and implement block chain for network wide sharing of data provenance and trust.

**CONTRACT VEHICLE:** BAA

**CONTRACT TYPE:** TBD

**ESTIMATED VALUE:** $10M-$15M over FY20-FY24

**CONTRACTING CONTACT:** ACC-APG, KO TBD by the ACC Branch Chief, Mr. Christopher Fisher

**DRAFT SOLICITATION RELEASE:** Anticipated 4QFY19

**SOLICITATION #:** TBD

**ESTIMATED SOLICITATION RELEASE DATE:** Anticipated 1QFY20

**PRIOR/CURRENT CONTRACT INFORMATION:** N/A

- Contract Number:
- Incumbent Contractor:
- Contracting Division POC:

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Commercial Solutions for Classified (CSfC) Solutions - CSIA Division

Required services include: Quick reaction capabilities, system innovation, and engineering support for the CSfC. For CSfC, provide systems engineering, solution development, technical support, on-site installation, training, testing, documentation authoring, and configuration management of secure wireless systems.

**CONTRACT VEHICLE:** GSA Assisted

**CONTRACT TYPE:** CPFF

**ESTIMATED VALUE:** $300M over FY20-FY24

**CONTRACTING CONTACT:** TBD

**DRAFT SOLICITATION RELEASE:** Anticipated 4QFY19

**SOLICITATION #:** TBD

**ESTIMATED SOLICITATION RELEASE DATE:** Anticipated 1QFY20

**PRIOR/CURRENT CONTRACT INFORMATION:** N/A

- **Contract Number:**
- **Incumbent Contractor:**
- **Contracting Division POC:**

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Way Ahead / Future Concepts

- Emphasis on Delivery and Demonstration of New and Integrated Capabilities
- Integration and Experimentation
  - **NetModX**: A multi-week field experiment of state-of-the-art COTS communications systems in a tactical relevant environment to inform investment metrics
  - **CyberBlitz 19**: Synchronized S&T prototypes, technology concepts and investment strategies with Acquisition, TRADOC, Operational and total Army priorities to enable integrated CEMA, Maneuver, Targeting and Effects for Multi-Domain Operations
- S&T alignment with Network Cross Functional Team and Army Modernization Priorities

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