

U.S. Army Training and Doctrine Command

Victory Starts Here!

Victory for America's Army begins with Training and Doctrine Command. There has never been a more important time for the Army's architect and general contractor. America's Army is the most dominate land power on earth, and TRADOC's job is to ensure that superiority remains in the future.

DESIGN

the Future Army through developing cutting-edge concepts and innovative capabilities.

ACQUIRE

a changing demographic, improve quality, and strengthen the Army profession and ethic.

BUILD

the Army by refocusing, sharpening the Army's education system to prepare leaders.

IMPROVE

the Army by educating the command's workforce to be more agile and innovative.

Combat Vehicle Modernization Strategy - Click Here

A modern combat fleet is a critical component of Joint Force success, as well as our Army's ability to reduce casualties in battle.

Digital Job Book & Leader Readiness Tool - Click Here

The Leader Readiness Tool provides Soldiers a single source web-based Training Management capability integrated with unit training objectives and plans.

Force 2025 & Beyond - Click Here

Force 2025 and Beyond (F2025B) is the comprehensive strategy to deliver Army forces to meet the challenges described in the Army Operating Concept.

Robotic & Autonomous Strategy Systems - Click Here

The Army Robotic and Autonomous Systems (RAS) strategy synchronizes Army RAS activities, fosters unity of effort, and identifies opportunities to accelerate RAS capabilities in a resource-constrained environment.

Synthetic Training Environment - Click Here

The Synthetic Training Environment converges virtual, gaming and constructive training environments into one environment that links with live training.

For more information contact TRADOC PAO at (757) 501-5878 or (757) 775-8356.



tradoc.army.mil



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IBCT



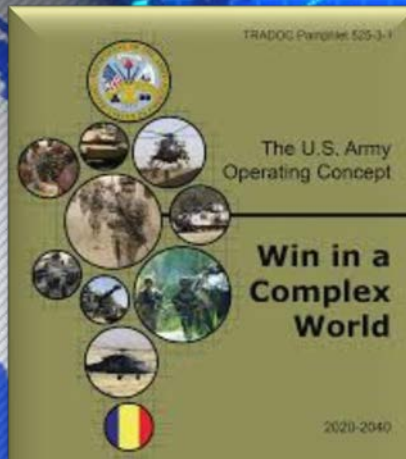
Ground Mobility Vehicle (GMV)



Joint Light Tactical Vehicle (JLTV)



Mobile Protected Firepower (MPF)



<http://www.tradoc.army.mil/tpubs/pams/tp525-3-1.pdf>

SBCT



M1126 RWS-J



M1126 30mm Cannon

ABCT



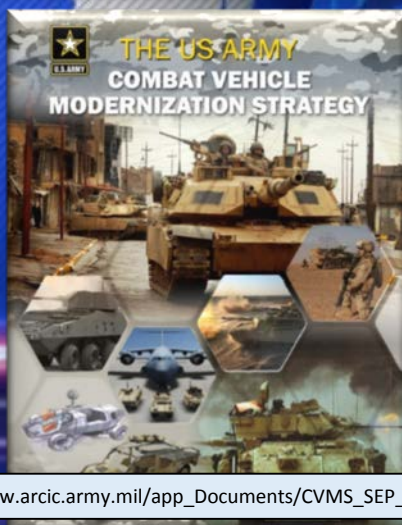
M1A2 SEP V3



M2A4



AMPV FoS



http://www.arcic.army.mil/app_Documents/CVMS_SEP_Master.pdf

Combat Vehicle Modernization Strategy (CVMS)

A modern combat fleet is a critical component of Joint Force success, as well as our Army's ability to reduce casualties in battle.

Produced by:
MASD, CDD, ARCIC
Fort Eustis, VA



CVMS BCT Programs and Initiatives



ABCT

Primary Systems

Abrams Main Battle Tank, M1A2SEP V3
 Bradley Family of Systems, M2A4
 Armored Multi-Purpose Vehicle
 Future Fighting Vehicle
 Future Tank
 Autonomous Technology applications

Enabling Systems

Engineer Change Proposals
 Vehicle Protection System
 Medium Caliber Canon
 Combat Vehicle Prototyping
 120mm Advanced Multi-Purpose Round

SBCT

Primary Systems

Stryker Family of Systems
 Double "V" Hull Upgrade
 Stryker Mobile Gun System

Enabling Systems

Engineer Change Proposal
 Lethality Up-Grade (Medium Caliber Cannon, Remote Weapon Station, Javelin (RWS-J))
 Vehicle Protection System
 Combat Vehicle Prototyping

IBCT

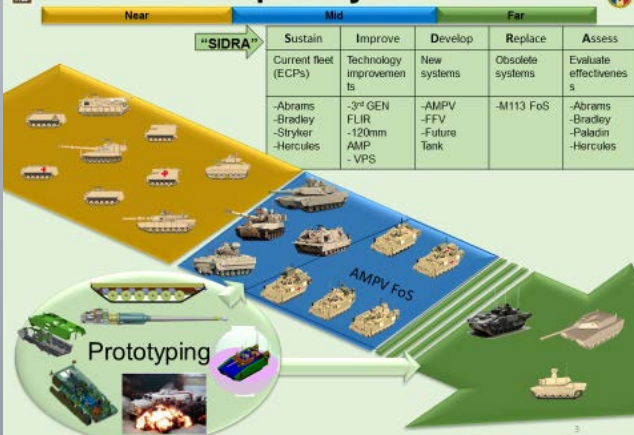
Primary Systems

Ground Mobility Vehicle
 Mobile Protected Firepower
 Light Reconnaissance Vehicle
 Autonomous Technology applications

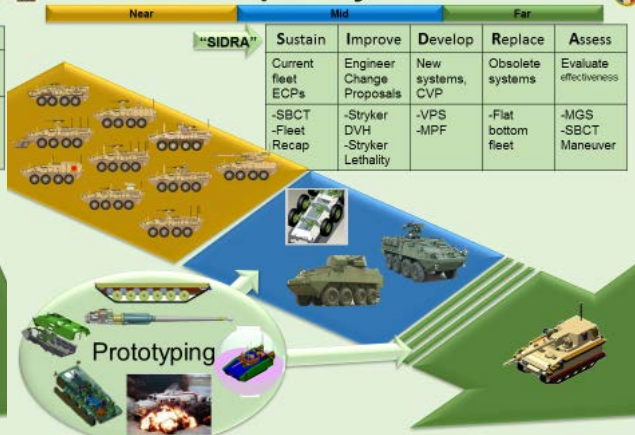
Enabling Systems

Vehicle Protection System
 Cannon Air Burst Technology
 Combat Vehicle Prototyping

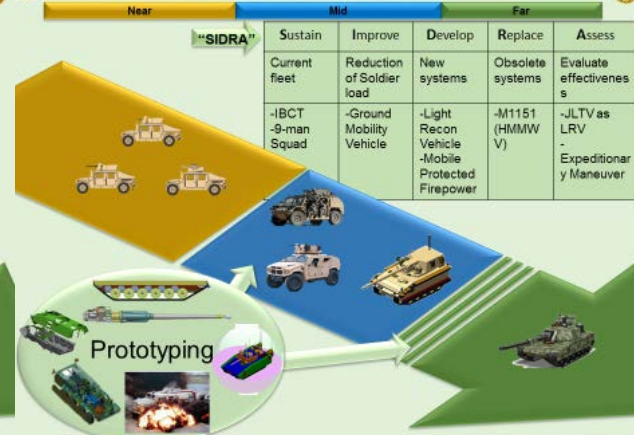
ABCT Capability Transition



SBCT Capability Transition

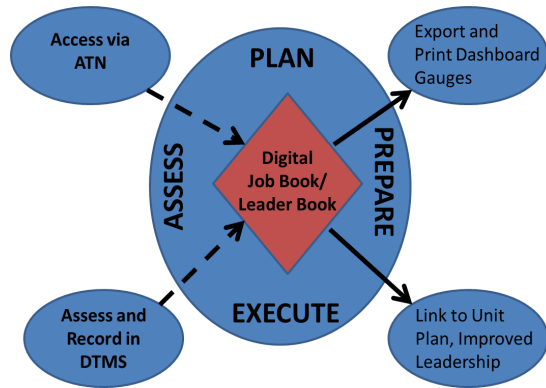


IBCT Capability Transition



Vision

Powered by the Army Training Management System (ATMS), the Digital Job Book & Leader Readiness Tool provide Soldiers and Small Unit Leaders a single source web based Training Management capability integrated with unit training objectives and plans.



A noncommissioned officer's job is not easy and we expect a lot from those who are selected to lead, train, and care for the best soldiers in the world.... The reward for being a non-commissioned officer is the honor and privilege to lead and train America's finest men and women during peace and war.

-SMA Julius W. Gates, INSCOM, Aug-Sep

Training Management Directorate Fort Leavenworth, Kansas

For more information contact the DTMS Service Center

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usarmy.leavenworth.cac.mbx.dtmshd@mail.mil

Comm: 913-684-2700

DSN: 522-2700

Toll Free: 877-241-0347

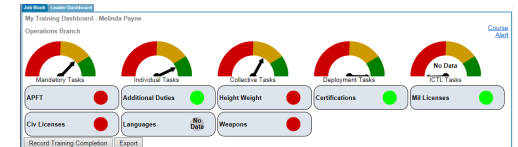
For detailed information on how to use the Leader Readiness Tool reference "ATMS September 2016 Release Notes"; located in the DTMS Document Library. Your DTMS operator can Log into DTMS and Navigate: Training > Plan > Document Library. Locate the document titled ATMS September 2016 Release Notes" and select the 'View' button.



Digital Job Book & Leader Readiness Tool

Physical Training (PT)	Weapon Qualification	Readiness Training	Schedule Change	Training Schedule	Training Management Calendar
Lock Name: Last Print/Fall Date: Last Status Date: Status					
JAN12P0800AM / CORSE PROTECTION 12/21/2013 8:00:00 AM 12/21/2013 8:00:00 AM Need to get current					
PROTECTOR FROM BRUCE 12/20/2014 12:00:00 AM 12/20/2014 12:00:00 AM Need to get current					
LOCAL OPPORTUNITY TRAINING 3/1/2014 12:00:00 AM 3/1/2014 12:00:00 AM Need to get current					
COMBAT ENG. TRAINING IN PERSON. CPT/PROG/ENG 12/20/2013 12:00:00 AM 12/20/2013 12:00:00 AM Need to get current					
FEDERAL AMMUNITION PRODUCTION TRAINING (FAP/VAL BASIS SCHIERSCHULUNG) 11/02/2012 8:30:00 AM 11/02/2012 8:30:00 AM Need to get current					
1 2 3 4 5					

Digital Job Book provides electronic access to Soldier training data



Digital Leader Readiness Tool enables Army Small Unit leaders to plan, execute, record and report Unit and Individual Soldier Training Readiness



Access through ATN

Accessing DTMS and ATN

ATMS provides access authentication and authorization management.

The image shows two side-by-side login portals for the Army Training Management System (ATMS). The left portal is the 'DTMS Live Site' and the right is the 'DTMS Training Site'. Both feature the ATMS logo and a 'DTMS Digital Training Management System' banner. Below the banner is an 'Enter Live Site' or 'Enter Training Site' button. A 'NOTICE' section at the bottom contains a disclaimer about the system's use for authorized purposes only.

DTMS URL:
<https://dtms.army.mil/>

ATN provides access to Individual and Small Unit "My Training" management requirements / guidance, reporting displays and recording.

The image shows the 'ATN My Training Tab' interface. It features a navigation menu with options like 'More Gadgets...', 'Army Training Network', 'Ask-A-Trainer', and 'ATN'. The main content area displays a 'My Training Dashboard' with tabs for Physical Training (PT), Weapon Qualification, Mandatory Training, Scheduled Classes, Training Schedules, and Training Management Calendar. The Physical Training section shows test dates, height, weight, and pass/fail status for a specific soldier.

ATN My Training URL:
<https://atiam.train.army.mil/mthp/>

Digital Job Book

The image shows a 'Leader Dashboard' for 'My Training Dashboard'. It includes a 'Course Alert' and a 'Physical Training' section. The Physical Training section displays test dates, height, weight, and pass/fail status for a soldier. The test date is 2/1/2016, and the status is 'Fail'. The weight is 170, and the body fat percentage is 37. The raw PU and SU are both 40, and the raw run is 14:30. The alt event is N/A, and the pass/fail status is 'Fail'. The profile end date is 2/3/2017, and the profile is 'Not Permanent'.

ATN "My Training" dashboard Soldier physical readiness updates

The image shows a 'My Training Dashboard' for a soldier. It includes a 'Course Alert' and a 'Weapon Type' section. The Weapon Type section displays the weapon type, qualification date, and skill level for a specific soldier. The weapon type is 'M16A2 5.56mm Semiautomatic Rifle', the qualification date is 2/4/2016, and the skill level is 'FAMILIARIZED'.

Weapons Proficiency & Readiness

The image shows a 'My Training Dashboard' for mandatory training completion. It includes a 'Course Alert' and a 'Task Name' section. The Task Name section displays the task name, last pass/fail date, last status date, and status for a specific soldier. The task name is 'COMBATING TRAFFICKING IN PERSONS (CTIP) PROGRAM', the last pass/fail date is 2/3/2016, the last status date is 2/3/2016, and the status is 'Current'.

Mandatory Training Completion

Course Registration Alert

Course Name	Class Start Date	Class End Date	Registration Source	Location	Enrollment Status
DTMS Operators Course	11/9/2006 9:30:00 AM	11/9/2006 4:00:00 PM		Bldg 6911 - DLC	Cancelled
DTMS Operators Course	12/7/2006 9:30:00 AM	12/7/2006 4:00:00 PM		Bldg 6911 - DLC	Cancelled
Blue Force Tracker Leader Operator Course	2/26/2007 9:30:00 AM	3/1/2007 5:00:00 PM		Fort Campbell BCTC Bldg 2937	Waiting List
DTMS Operators Course	3/8/2007 9:30:00 AM	3/8/2007 4:00:00 PM		Bldg 6911 - DLC	No Show
Blue Force Tracker Leader Operator Course	6/11/2007 9:30:00 AM	6/14/2007 5:30:00 PM		Fort Campbell BCTC Bldg 2937	Waiting List

Military training and education course registration updates

Leader Readiness Tool

The image shows the 'Digital Training Management System (Test)' interface. It includes a 'Manage Platoons & Subordinate Organizations' section. The Manage Platoons section displays a list of platoons and subordinate organizations, including their parent organization, platoon name, personnel count, and management status.

Step 1: Unit Creates & Names Small Unit, then Enters personnel.

The image shows the 'Digital Training Management System (Test)' interface. It includes a 'Assign Personnel to Subordinates' section. The Assign Personnel section displays a list of personnel and their assignment status to various platoons and subordinate organizations.

Step 2: Unit designates Small Unit leader.

The image shows the 'Leader Readiness Tool' interface. It includes a 'My Training Dashboard - Melinda Payne' section. The dashboard displays various training status indicators, including 'Mandatory Tasks', 'Individual Tasks', 'Collective Tasks', 'Deployment Tasks', 'CITE Tasks', 'APFT', 'Additional Duties', 'Height Weight', 'Certifications', 'Mil Licenses', 'Civ Licenses', 'Languages', 'No Data', and 'Weapons'.

Step 3: Small Unit leader views unit training status on the Readiness Tool.

Nominate Training Completion
 Training: [APFT ▼] Return To Leader Dashboard

APFT	Last Name	First Name	Last 4	MOS	APFT Profile	Alternative Event	APFT Date	For Record	Total Pushups	Total Staps	Run Time	Location	Comments
<input type="checkbox"/>	GARCIA	ANTHONY	2773	SFC	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	HALL	BENJAMIN	2790	SSG	Yes	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	HERNANDEZ	GABRIEL	4127	SFC	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	HOYE	SEAN	0188	SFC	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	HUFF	RAYMOND	4663	SFC	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	MILLER	CARL	1982	1SG	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	NOEL	BRANDON	9917	SGT	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	NORRIS	MATTHEW	9774	SFC	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	PALFREEMAN	JASON	2335	CSM	No	Select Event ▼	1/11/2017	<input type="checkbox"/>					
<input type="checkbox"/>	Payne	Melinda	1938	1SG	Yes	Select Event ▼	1/11/2017	<input type="checkbox"/>					

Page Size: [10 ▼] | Record | Clear

Step 4: Small Unit leader records training completion.



FORCE 2025 & BEYOND MANEUVERS AND ARMY WARFIGHTING ASSESSMENTS

BRIGADE MODERNIZATION COMMAND (BMC)

The Brigade Modernization Command conducts integration and evaluations of the Network, non-network, and other developmental and emerging concepts and capabilities in order to provide Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, Facilities and Policy (DOTMLPF-P) recommendations to the Army.

FORCE 2025 MANEUVERS (F2025M)

Force 2025 and Beyond (F2025B) is the comprehensive strategy to deliver Army forces to meet the challenges described in the Army Operating Concept.

Force 2025 and Beyond Maneuvers (F2025M) are exercises and experiments designed to incorporate, assess, test, evaluate, and validate Force 2025 and Beyond ideas.

Army Warfighting Assessments (AWA) assess concepts and capabilities while Network Integration Evaluations (NIE) are operational exercises that formally test and evaluate systems and capabilities. NIE 16.1 is the final proof of concept exercise for AWAs that will assess solutions to Army Warfighting Challenges (AWFCs) in a relevant operational environment.

ARMY WARFIGHTING CHALLENGES

1. Develop Situational Understanding
2. Shape the Security Environment
3. Provide Security Force Assistance
4. Adapt the Institutional Army and Innovate
5. Counter Weapons of Mass Destruction
6. Conduct Homeland Operations
7. Conduct Space and Cyber Electromagnetic Operations and Maintain Communications
8. Enhance Realistic Training
9. Improve Soldier, Leader, and Team Performance
10. Develop Agile and Adaptive Leaders
11. Conduct Air-Ground Reconnaissance and Security
12. Conduct Joint Expeditionary Maneuver and Entry Operations
13. Conduct Wide Area Security
14. Ensure Interoperability and Operate in a Joint, Inter-Organizational, and Multinational Environment.
15. Conduct Joint Combined Arms Maneuver
16. Set the Theater, Sustain Operations, and Maintain Freedom of Movement.
17. Integrate Fires
18. Deliver Fires
19. Exercise Mission Command
20. Develop Capable Formations

ARMY WARFIGHTING ASSESSMENT (AWA)

The AWA is the Army's, Joint / Multinational Exercise that will refine and improve the Army's tactical network and assess interim solutions to the AWFCs. AWAs will focus on refinement and improvement of the network without the constraints of the NIE's formal testing environment. AWAs will allow the Army to explore the "art of the possible," assess concepts, refine requirements, improve systems engineering processes and apply lessons learned to enhance the integration and acquisition of network capabilities. AWAs are Force 2025 Maneuvers capstone events designed to develop interim solutions to the Army Warfighting Challenges (AWFCs).



The AWA has three key focus areas:

Future Force Development: The AWA will experiment with new concepts, capabilities and organizational designs that will provide interim solutions to the AWFCs.

Training Readiness: The AWA is a live, virtual and constructive division-level Joint/Multinational training exercise that provides a unique opportunity to increase innovation, improve interoperability and enhance unit readiness. Army leaders gain experience operating in a joint and multi-national environment. Opposing forces are also live and constructive and have unique threat capabilities, such as live cyber attacks, electronic warfare and unmanned aerial systems.

Interoperability: TRADOC partners with the Joint Staff J6 Bold Quest exercise to focus on network and mission command system interoperability. Bold Quest brings significant joint and multinational forces and capabilities to the AWA, including the development of a coalition network; all exercise participants (Bold Quest and AWA) will operate on the coalition network. Bold Quest also includes a large variety of US joint and coalition aviation platforms.

As the capstone exercise for Force 2025M, AWAs are conducted in the fall of each year leveraging the unique assessment and training environment of Fort Bliss maneuver space, training facilities, and range complex, as well as White Sands Missile Range (WSMR), and Holloman Air Force Base. AWA 17 will occur in October 2016.

THE ARMY WARFIGHTING ASSESSMENT AND THE NETWORK INTEGRATION EVALUATION: COMPLEMENTARY CAPSTONE EXERCISES UNDER FORCE 2025 MANEUVERS

The NIE and AWA are complementary exercises with the development of the Army's tactical network as a key objective. Beginning in 2017, the Army will transition from two NIE's per year to one NIE and one AWA. The NIE will continue to focus on formal testing and evaluation of network Programs of Record (PORs). The AWA will focus on refinement/improvement of the network without the constraints of the NIE's formal testing environment.



The AWA also provides several other benefits:

Provides the Army a venue to develop and refine new concepts and capability requirements: Each AWA will assess new operational concepts that TRADOC is developing as part of F2025M. The AWA will also include prototypes and surrogates of new capabilities. A key objective of the exercise is to get Soldier feedback early and often on these new concepts and capabilities. This feedback will improve the concept and requirement development process and could potentially reduce acquisition timelines.

Refines Joint concepts and improves multinational interoperability: Because the AWA is designed as a joint and multinational exercise, it provides an opportunity to experiment with new joint operational concepts. It also allows the Army to improve its doctrinal interoperability with its Joint and multinational partners.

Provides a venue to continuously improve the Army's tactical network without the formal test constraints that prevent the evaluation of less mature systems or innovative technologies.

Improves our relationship with industry partners: Because the AWA incorporates experimentation with new capabilities, it provides an opportunity to collaborate with industry partners. AWA provides an excellent early opportunity for industry to improve the engineering of their systems and have a better understanding of Army requirements, so they can help deliver solutions to AWFCs.

The AWA concept maximizes collective resources to advance joint and multinational interoperability, future force development, and unit training readiness priorities. This assessment will be unique in support of the Army's strategy of F2025B, preparing the Army to Win in a Complex World.

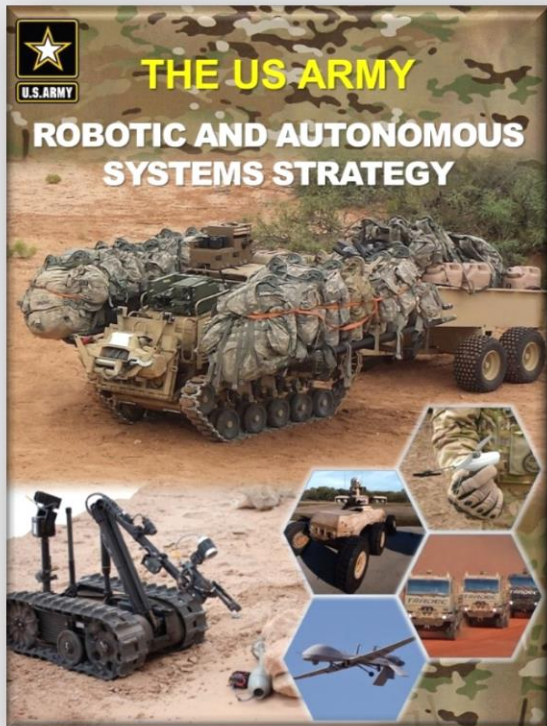
NIE 16.1: FINAL PROOF-OF-CONCEPT FOR THE ARMY WARFIGHTING ASSESSMENT

Brigade Modernization Command executed the AWA final proof-of-concept in SEP/OCT 2015. It included approximately 9,000 Soldiers and 3,000 civilians, a UK BDE HQ (live), an Italian ABN BN (constructive), and integrated all of the Bold Quest multinational participants (about 800 personnel from 13 NATO countries). The exercise informed 18 of 20 Army Warfighting Challenges (AWFCs).

AWA 17: Brigade Modernization Command executes AWA 17 in conjunction with US Army Pacific Command's Pacific Pathways JUN-OCT 2016. AWA 17 Capstone Event at Fort Bliss/White Sands training areas in OCT 16 will include forces from UK, Australia, and Canada. Additional participants include US Army Special Forces, Cyber and an Aviation Task Force to evaluate 49 concepts and capabilities and 19 of 20 AWFCs.



The Army Robotic and Autonomous Systems (RAS) strategy synchronizes Army RAS activities, fosters unity of effort, and identifies opportunities to accelerate RAS capabilities in a resource-constrained environment.



The Army needs RAS to improve Soldier protection and increase the capabilities of Army formations to maintain overmatch against adaptable adversaries.

"I'm telling you right now, 10 years from now, if the first person through the breach isn't a ... robot, shame on us ...we can do this."

*Deputy Secretary of Defense,
Robert Work, November 7, 2015*



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U.S. ARMY ROBOTIC AND AUTONOMOUS SYSTEMS STRATEGY



Capability Objectives: Over the next 25 years, RAS supports the Army to:

1. Increase situational awareness
2. Lighten the Warfighters' physical and cognitive workloads
3. Sustain the force with improved distribution, throughput, and efficiency
4. Facilitate movement and maneuver
5. Protect the force



End state: Increase combat effectiveness of the future force and maintain overmatch against enemies.

Near-Term (2016-2020)

Mid-Term (2021-2030)

Far-Term (2031-2040)

Increase Situational Awareness:
Soldier Borne Sensor



Increase Situational Awareness: Swarming Unmanned Aircraft System



Increase Situational Awareness: Autonomous Recon Systems + Warrior Suit



Lighten Soldier Load:
Squad Multipurpose Equipment Transport



Lighten Soldier Load:
Exoskeleton



Improve Sustainment:
Autonomous Cargo Delivery Aircraft



Improve Sustainment:
Leader-Follower Semi-Automated Resupply



Improve Sustainment:
Fully-Automated Convoy Operations



Facilitate Maneuver:
Improved Unmanned Combat Vehicle



Facilitate Maneuver:
Husky Mounted Detection System / Light Flail



Facilitate Maneuver:
Unmanned Combat Vehicles and Advanced Payloads



Protect the Force:
Counter-Improvised Explosive Device (C-IED)



The RAS Strategy is located at:
http://www.arcic.army.mil/app_Documents/RAS_Strategy.pdf



The RAS Strategy prioritizes investments over time, enabling the Army to maintain overmatch and win in a complex world.





FOR MORE INFORMATION CONTACT:

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“THE SYNTHETIC TRAINING ENVIRONMENT WILL CONVERGE VIRTUAL, GAMING AND CONSTRUCTIVE TRAINING ENVIRONMENTS INTO ONE ENVIRONMENT THAT WILL LINK WITH LIVE TRAINING. WITH THE STE, THE ARMY WILL CONDUCT TOUGH, REALISTIC MULTI-ECHELON TRAINING THAT OUR SOLDIERS NEED TO WIN IN A COMPLEX WORLD.”

~ LTG MIKE LUNDY, COMMANDING GENERAL OF THE COMBINED ARMS CENTER, FORT LEAVENWORTH, KAN.

WHERE WE ARE NOW



- Obsolete 1980's technology
- Stovepipe systems and terrain databases
- Limited interoperability
- Patched together systems to stimulate mission command systems
- Unaffordable to maintain concurrency
- Unable to keep pace with combat system upgrades
- Runs the risk of possible negative training and loss of confidence in the systems
- Based at facilities and high overhead to operate

WHERE WE ARE GOING

AMERICA'S ARMY: GLOBALLY RESPONSIVE REGIONALLY ENGAGED

STE Scene Setter - Where We Are Going

Convergent Architecture	Future Virtual Collective Trainers	
<ul style="list-style-type: none"> Cloud-based Army Enterprise Network One World Terrain Common, authoritative DBs & models Single Protocol 	<p>Virtual Live Constructive</p> <p>Convergence Gaming Augmented Reality</p>	<ul style="list-style-type: none"> Increases Training Readiness Replicates the OE w/Mega Cities Train as and where you fight Affordable Collective Trainers Solves Concurrency Issues Low Overhead – Point of Need Open and restricted Networks Fully stimulates Mission Command systems Backwards Compatible
<p>Points of Need</p>		

- Increases training readiness
- Replicates the Operational Environment and megacities
- Train as and where you fight
- Affordable collective trainers
- Solves concurrency and interoperability Issues
- Low overhead with training at the point of need
- Open and restricted networks
- Fully interoperable with Mission Command Information Systems
- Compatible with the current Live, Virtual, Constructive – Integrated Architecture