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Warfighter Outcomes (WFO) Overview

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Agenda



- **ARCIC's role in S&T and the Operational Environment**
- **Army Science & Technology Stakeholders**
- **What are Warfighter Outcomes (WFOs)?**
- **Conclusion**

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ARCIC Mission and Vision



Victory Starts Here

ARCIC Mission

Develop, evaluate, and integrate concepts, requirements, and solutions for the Army – across DOTMLPF, Warfighting functions and formations – to provide Soldiers and units the capabilities they need to support Combatant Commanders

ARCIC Vision

The Army's Concept and Capabilities architect, enabling the Joint Force Commander with an adaptive land force to Prevent, Shape, and Win in an uncertain future

*** DOTMLPF – Doctrine, Organizations, Training, Materiel, Leadership and Education, Personnel, Facilities**



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Army S&T Strategic Stakeholders

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HQDA G-3/5/7
Army Priorities



Programs of Record
Increased Capability



HQDA G-8
Resources



ASA(ALT)
Title 10 Authority

ARCIC
Warfighters' Needs



RDECs/Labs/OGAs-
Technology Availability And Development



US Army Corps
of Engineers
Engineer Research and
Development Center



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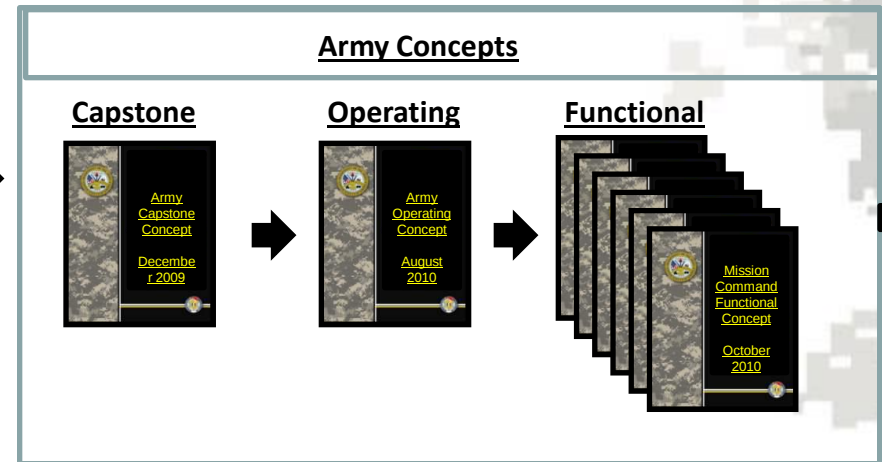
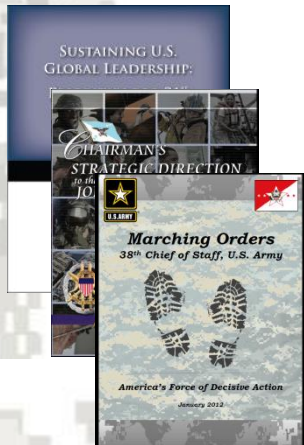
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From Guidance to WFOs



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Strategic Guidance



Warfighter Outcomes - Gaps S&T may fill (within Single Gaps List)

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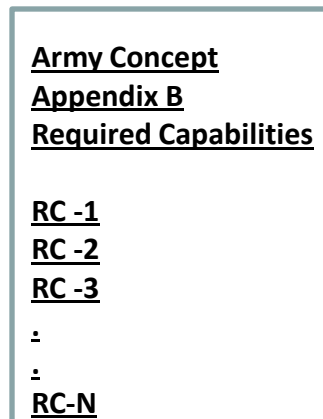
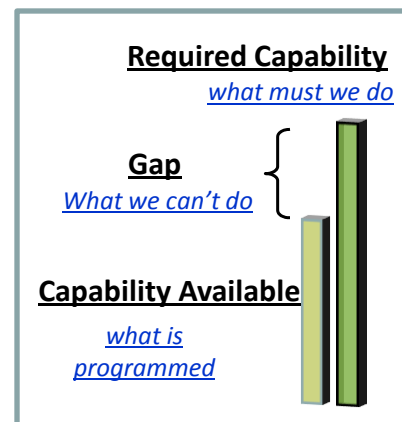
Army Warfighter Outcomes that Guide S&T Investment - FY13

Training	- Live, virtual, constructive and mixed venues; more skills, faster, at lower cost, with greater retention - Train prior to employment; non-traditional home station training techniques - Enhance and account for individual proficiencies and learning rates
Mission Command Network	- Beyond-line-of-sight - Optimized for mobile operations - Increase access to the individual Soldier
Protection CIED	- Detect, identify and neutralize threats to include CBRNE obstacles and WMD - Provide safe standoff distance/maintain momentum while protecting Soldiers & platforms
Human Dimension	- Enhance & restore cognitive and physical performance and mitigate increased stress - Access on potential vs. high school performance - Improving mental, moral and physical capacity and performance
Sustainment Power & Energy	- Ability to deploy to the fight, operate over extended distances, and deal with anti-access and area denial challenges, all while conducting distributed operations - Medical - Force Health Protection - Power and Energy: Individual, Platform, Installation
Fires	- Rapidly and precisely locate enemy Direct/ Indirect fire weapon systems/ground targets (360 degrees) - Command, Control & coordinate widely dispersed assets, employ fires - JIM & ROE restricted encls - Conduct Joint Fire Missions, clearance of fire, send and receive data during Army, Joint, Multinational AMD operations
Movement / Maneuver	- Conduct Combined Arms Maneuver; Conduct Wide Area Security - Conduct Full Spectrum Operations; Conduct Shaping and entry Operations
Intelligence	- Facilitate understanding of the operational, enemy, terrain and civil consideration. - Tasks associated with intelligence, surveillance and reconnaissance operations

May 2012 Memorandum 157 001-5818



Capability Needs Assessment Formation Based Assessment



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FY13 WFOs



Functionally Aligned FY13 Warfighter Outcomes Level One Big Ideas

Protection (P) - Drawing from combat experiences and lessons learned since 2001, it is evident that future Army forces will face adaptive enemies that will continue to exploit vulnerabilities in protection. These threats include a variety of current and emerging explosives; direct fire; indirect fire; chemical, biological, radiological, nuclear, and high-yield explosives (CBRNE); CBRNE delivery systems, information, and criminal. These areas can be divided into protecting **soldiers**, protecting **platforms**, protecting **facilities**, and **CBRNE**.

Protection WFOs

(P-1) Counter IED and Mine - The Future Force must have the ability to detect, classify and neutralize Explosive Hazards (IED, mines, booby traps, UXO and CBRN) and/or their components from a sufficient standoff distance. The Future Force requires the capability to locate the hazard, determine the type of hazard, select the best method of neutralization, mitigate, and ascertain the potential effects on the environment. This capability will allow the commander to assure mobility while protecting Soldiers and platforms from the effects of these threats and hazards.

(P-2) Combat Identification - The Future Force requires the capability to identify friend, enemy, neutral and noncombatant during unified land operations to prevent fratricide and protect populations.

(P-3) Hazard Detection On-the-Move - The Future Force requires the capability to detect explosive hazards at standoff ranges and convoy speeds. Enable Soldiers conducting area/route clearance to avoid kill zones by detecting explosive hazards at greater standoff and operating speeds.

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(P-17) Identify and Mitigate Subterranean Threats - The Future Force requires the capability to detect subterranean passageways to prevent enemy or detainee activity below the surface of the Earth.



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Conclusion



- Standalone statements that articulate specific capabilities needed for the Warfighter.
- Provide both rationale and metrics for the stated capability.
- Used to inform and validate the Army's S&T investment.
- They are the sole reference used by Capability Developers to validate Army 6.2 and 6.3 programs.
- Organized along the Warfighting Functions, prioritized based on the most compelling capability requirements
- Publically releasable version -
<http://www.arcic.army.mil/Docs/FY12%20TRADOC%20Warfighter%20Outcomes.pdf>

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