



Program Executive Office Soldier

The Soldier

Our Strength and Purpose

PEO Soldier International Overview Briefing

9 September 2015

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Program Executive Officer Soldier
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PEO Soldier Mission



Develop, acquire, field, and sustain affordable, integrated, state-of-the-art equipment to improve Soldier dominance in Army operations today and in the future

**We Are Here to Make a Difference
To America's Most Deployed Combat System**

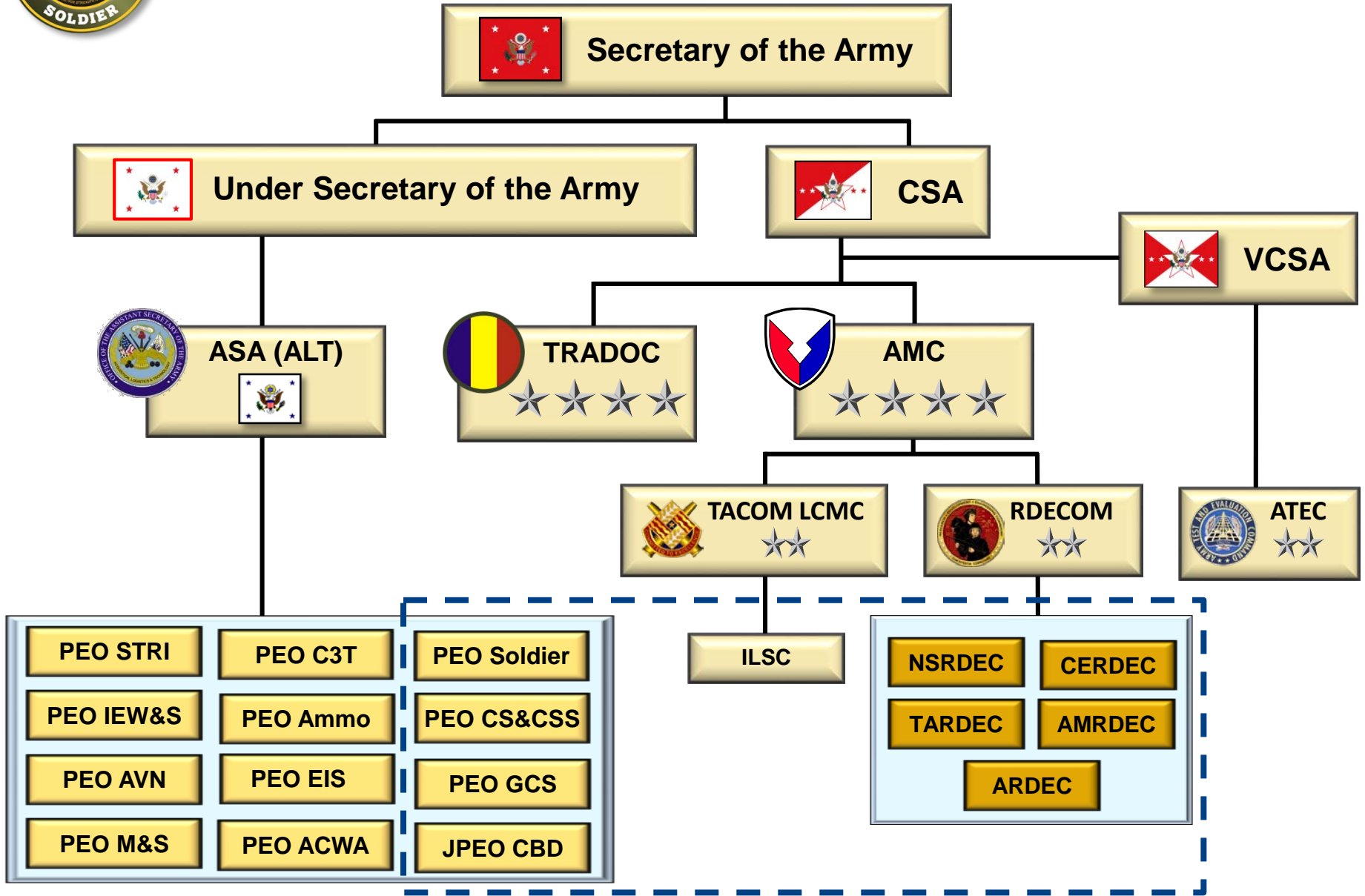
Soldier Equipment Evolution



VIDEO:
Soldier Equipment Evolution
TIME: 3:02



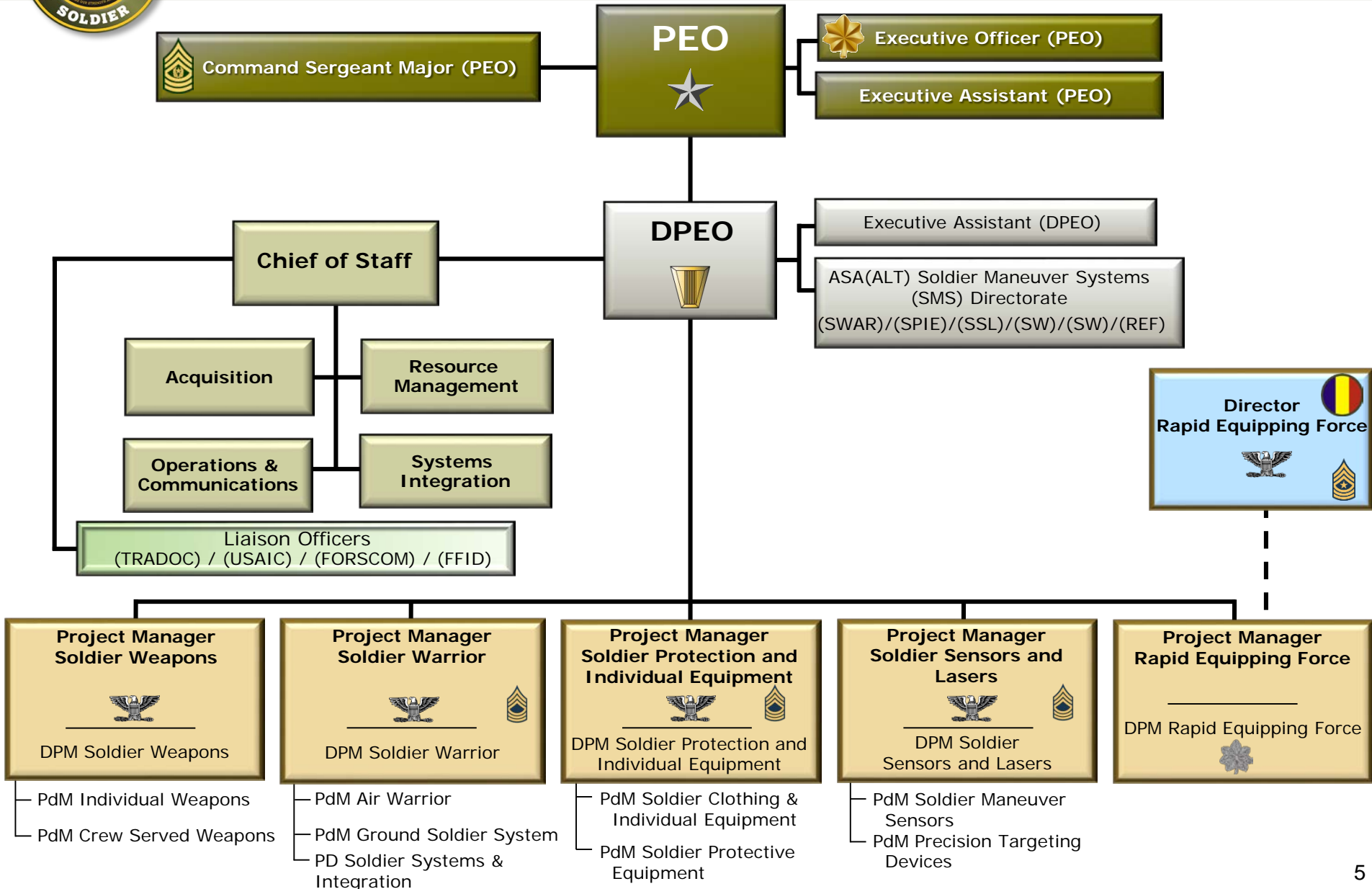
Team Soldier Enterprise





Program Executive Office Soldier

As of: 3 August 2015





PEO Soldier Major Activities

As of: 11 August 2015

PM Soldier Weapons

Individual Weapons



Crew-Served Weapons



PM Soldier Warrior

Air Warrior



Ground Soldier

Soldier Systems & Integration



Mobile Handheld Computing Environment

PM Soldier Protection & Individual Equip

Soldier Protective Equipment



Soldier Clothing & Individual Equipment

Soldier Clothing & Individual Equipment



PM Soldier Sensors & Lasers

Soldier Maneuver Sensors



Soldier Precision Targeting Devices



PM Rapid Equipping Force

C-UAS



Soter

Denied GPS SA & Comms



Squad ISR



Cube



COP/FOB Force Protection





Project Manager Soldier Weapons



**M4/M4A1
Carbine**



**XM17
Modular Hand Gun**



**XM25
Counter Defilade Target Engagement
(CDTE) Weapon System**



Project Manager Soldier Warrior



Air Warrior



NETT Warrior



Systems Integration



Project Manager Soldier Protection and Individual Equipment



**Soldier Protection
System (SPS)**



**Army Combat Uniform
(ACU) & Ancillary items**



**T-11 Advanced Tactical Parachute
System (ATAPS)**



Project Manager Soldier Sensors and Lasers



**Family of Weapons
Sights-Sniper (FWS-S)**



**Family of Weapons
Sights-Crew Served (FWS-CS)**

BAE

DRS



**Joint Effects Targeting
System (JETS)**



PEO Soldier Online



PEO Soldier Website

peosoldier.army.mil

PEO Soldier Blog

peosoldier.armylive.dodlive.mil



Flickr

flickr.com/peosoldier



Facebook

facebook.com/peosoldier



Vimeo

vimeo.com/peosoldier



Twitter

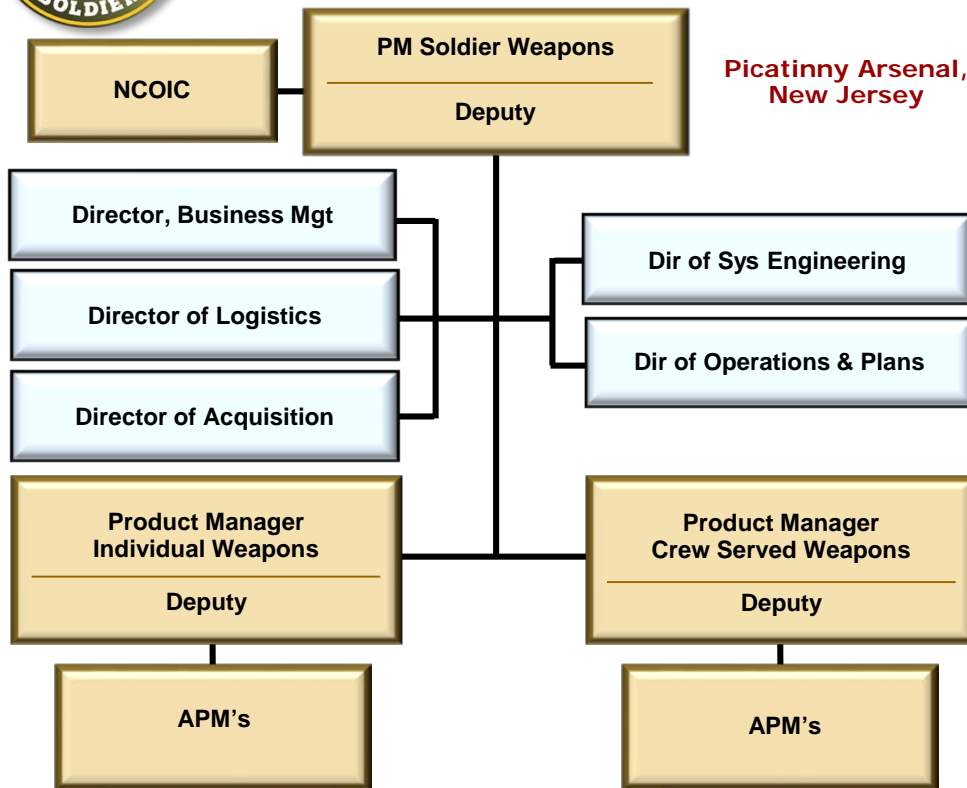
twitter.com/peosoldier



Back Ups



Project Manager Soldier Weapons



Picatinny Arsenal,
New Jersey

Mission:

Develop, acquire, field and sustain dominant Soldier weapon systems for the Army through effective and efficient management throughout the acquisition life cycle.

Be immediately responsive to the Soldiers' wartime requirements

Army and Other Services and Agencies



Afghanistan



South Korea





PdM IW Portfolio

Operations & Support



M1911
Pistol



M11
Pistol



M9
Pistol



M16A2/M16A4
Rifle



M203/M203A1/M203A2
Grenade launcher
w/ M4



M14
Enhanced Battle
Rifle (EBR)



M500/M590
Shotgun



M150
Rifle Combat
Optic (RCO)



M68
Close Combat
Optic (CCO)



M9
Bayonet



M7
Bayonet

Production & Deployment



M4/M4A1
Carbine



M320
Grenade Launcher
Stand-alone



M320A1
Grenade Launcher
w/ M4



M26
Modular Accessory
Shotgun System
(MASS)
Stand-alone



M26
Modular Accessory
Shotgun System
(MASS)
w/ M4



**Individual
Weapon
Cleaning Kit**



**Enhanced
Performance
Magazine**

Development



XM25
Counter Defilade
Target Engagement
System (CDTE) Weapon System



**XM1081 TP &
XM1083 HEAB**



XM17
Modular Handgun
System (includes ammo)



M4A1E1
Carbine



**Grenadier
Sighting System (GSS)**

Future (images notional)



**Next Generation
Squad Weapon (Carbine)**



Tactical Compact Shotgun



Subcompact



Suppressors



**Small Arms
Fire Control, Squad**



Intelligent Rail

“Provide premier Soldier weapons systems enabling battlefield dominance”



PdM CSW Portfolio

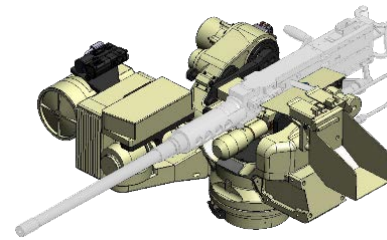
Operations & Support



Production & Deployment



Development

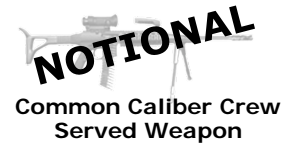


CROWS Low Profile



Future

Ammo and Configuration
Study Feeds Common
Caliber Crew Served Weapon
and Lightweight Medium
Machine Gun



Lightweight Machine Gun - Medium



Lightweight Machine Gun - Heavy



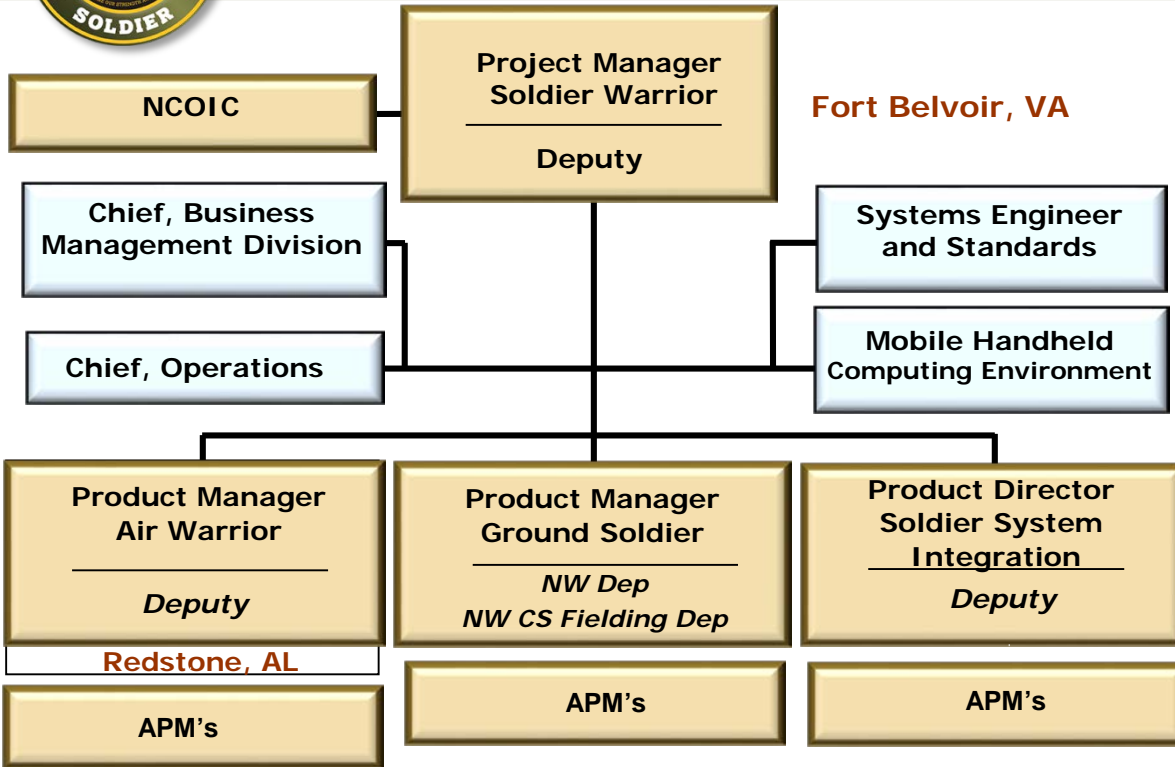
Small Arms Fire Control



"Provide premier Soldier weapons systems enabling battlefield dominance"



Project Manager Soldier Warrior



Mission:

To develop and field Air and Ground Soldier systems that integrate the Soldier with the network and platforms to be sustainable and survivable



Air Warrior



Air Soldier System



Nett Warrior



Tactical Communication Protective System



Product Manager Air Warrior

Air Warrior

Survival Gear Carrier



Portable Helicopter O₂ Delivery System



Dual Electronic Data Manager



Communication Enhancement/Protection System



Overwater Survival Gear Flotation Collar One Man Raft



Survival Kit Ready Access Modular



HGU-56/P Helmet w/ Maxillofacial Shield



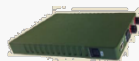
Encrypted Aircraft Wireless Intercom System



Microclimate Cooling System



Air Soldier System



Soldier Computer Module



A/C Mounted Mission Display Module



Common Helmet Mounted Display w/Degraded Visual Environment (DVE) 3D Symbology



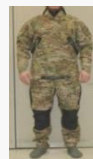
Head Tracking/Other Pilot Line of Sight



Improved Cooling Vest



Lightweight Flexible Body Armor and 72 Hour Survival Items



Layered Clothing Ensemble



Pre-Planned Product Improvements: Electronic Flight Bag



Product Manager Ground Soldier System

Nett Warrior

Leader Worn Baseline

Example Apps



Sensitive Site Exploitation
Intelligence Tool



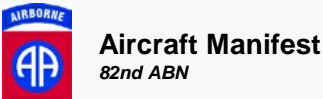
Machine Foreign Language Translation



Fires Warrior
Mobile Handheld Fires (PM Mission Command)



Collaborative Planning
Mission Assistance



Aircraft Manifest
82nd ABN



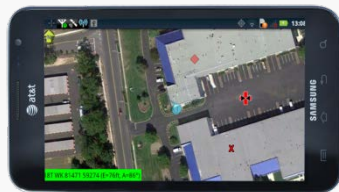
ParaNav
Parachute Navigation



WhoDat
Virtual lineup/BOLO



TIGR (Intel)
Events, Reports, Collections



End User Device (and Case)
Wiped and loaded with Army software



AN/PRC-154A



Conformal Battery



Cables and Logistics from Tobyhanna Army Depot

Support Equipment



Vehicle Integration Kits



Mission Planning Computer

Power Support Equipment



Modular Universal Battery Charger



Squad Power Manager



Solar Chargers and 1 KW Generator



Product Director Soldier Systems & Integration

Soldier Power

Soldier Worn Power



Conformal Battery

Integrated Soldier Power/Data System (Core) ISPDS-C

Solar/Kinetic Energy Harvesting



Squad Power Generation & Charging



Squad Power Manager w/Solar Blanket

Universal Battery Charger

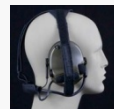
TCAPS

Tactical Communications and Protection System



Invisio TEA X50

TCAPS-Lite



3M COMTAC III NeckBand



3M Tactical Earplug (TEP)



TEA X50L



Silynx CLARUS Se

Systems Integration

Integration Working Groups

Facilitate cross-product integration among multiple Programs of Record

Warrior Integration Site (WinSite)

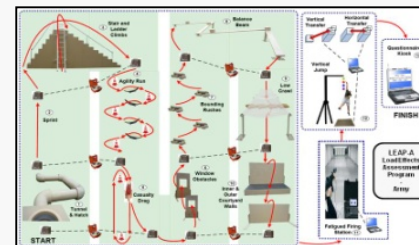
Manages the Soldier System baselines and informs the product development process



Scan prototypes
Create 3D models,
Print 3D prototypes
Space claim analysis
Virtual communication tools
Load Bearing Mannequins

Load Effects Assessment Program - Army (LEAP-A)

Assesses baseline performance and validates cross-product integration (form, fit, bulk, mobility and flexibility)



SEP

Soldier Enhancement Program



Daytron Scout UAS



ARES AMG-2 Light Automatic Machine Gun



Clip-On Thermal Imager (COTI)



40MM Extended Range Low Velocity munition

Buy-Try-Decide

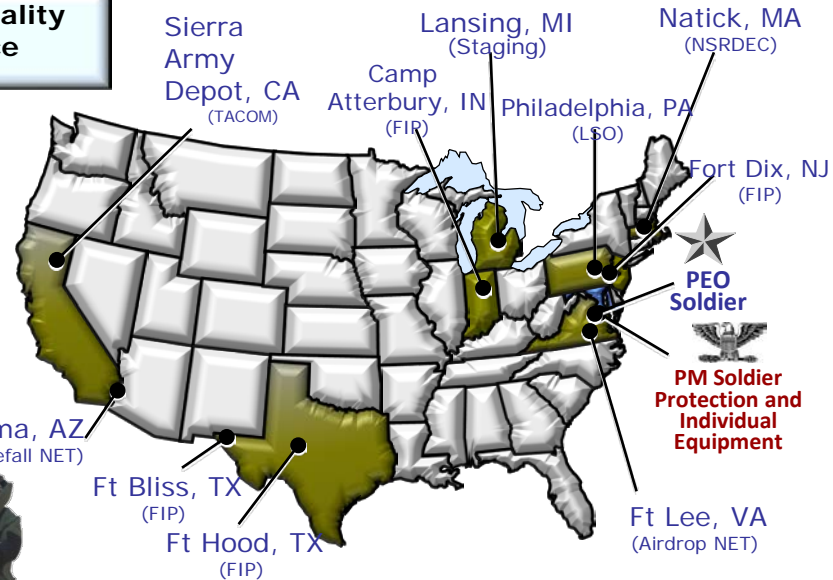
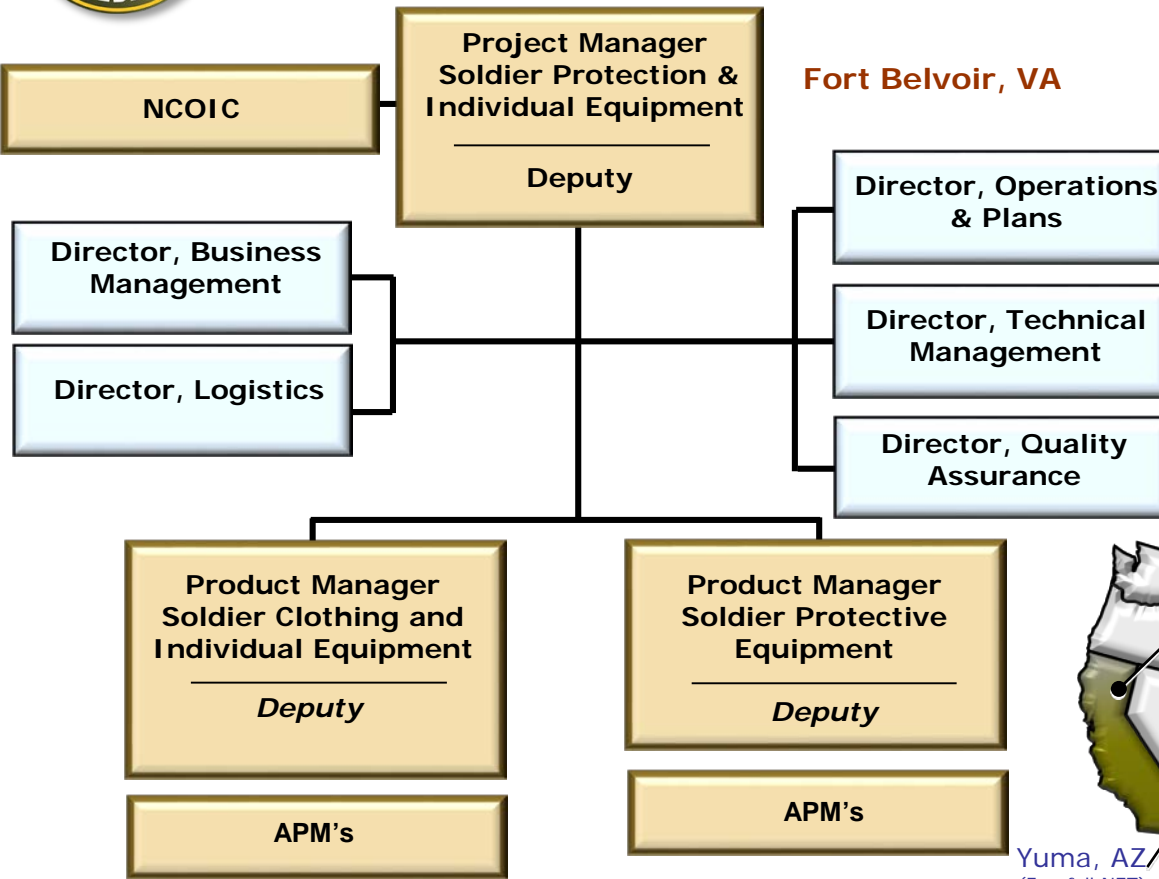


Project Manager Soldier Protection and Individual Equipment

Fort Belvoir, VA

PM SPIE Mission:

Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment as well as provide Soldiers with the state-of-the-art protection to defeat and reduce threats associated with ballistics, blast overpressure, fragmentation, and heat.





Product Manager Soldier Protective Equipment

Engineering and Manufacturing Development/Low Rate Initial Production

Vital Torso Protection (VTP)

- Ballistic Plates with Smart Sensor (Lighter weight ESAPI/ESBI and XSAPI/XSBI)

Torso and Extremity Protection System (TEP)

- Modular Soft Armor Vest Concealable to full IOTV Coverage
- Deltoid Protection
- Army Combat Shirt w/ built in Elbow Pads
- Pelvic Protection System (PUG/POG)
- Army Combat Pants w/ built in Knee Pads

Integrated Head Protection System (IHPS)

- Modular Ballistic Applique
- Maxillofacial Protection System
- Transition Combat Eye Protection (TCEP)

Integrated Soldier Sensor System (ISSS)

- Helmet Sensor
- Blast Gauge
- Physiological Status Monitor



Soldier Protection System (SPS)

Other Program of Record Production and Programs for Deploying Soldiers



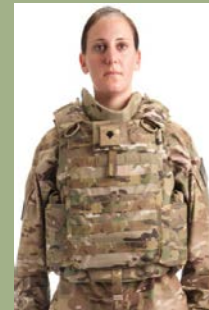
Soldier Plate Carrier System (SPCS) with POG



Family of Concealable Body Armor (FoCBA)



Enhanced Combat Helmet (ECH)



Female IOTV



Ultra-Low Vis Concealable Body Armor



Pelvic Protection



Blast Gauge



GEN II Helmet Sensor



Military Combat Eye Protection (MCEP)

Future Development



Next Generation Advanced Bomb Suit (NGABS)



Product Manager Soldier Protective Equipment

Support to Legacy Systems



Advanced Combat Helmet (ACH)
/Lightweight Advanced Combat
Helmet (LW ACH)



Armor Inspection
System Non
Destructive Test
Equipment
(AIS NDTE)



Enhanced Small Arms
Protective Insert
(ESAPI)



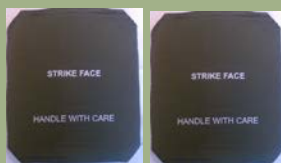
X-Threat Small Arms
Protective Insert
(XSAPI)



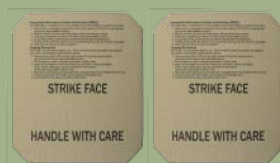
Improved Outer
Tactical Vest (IOTV)
(GEN III/Gen IV)



Combat Vehicle
Crewman
Helmet/Enhanced
Combat Vehicle
Crewman Helmet
(CVCH/A-CVCH)



Enhanced Side
Ballistic Insert
(ESBI)



X-Threat Side
Ballistic Insert
(XSBI)



Advanced
Bomb Suit
(ABS)



Nape/Neck
Protector



Product Manager Soldier Clothing & Individual Equipment

Program of Record Development/ Initial Production & Fielding

Tactical and Environmental Clothing



Fire Resistant Environmental Ensemble



Army Garrison Food Service Uniform



Army Combat Shirt



Army Combat Pant



OCP Flame Resistant ACU

Hand and Footwear

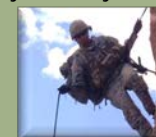
Individual and Unit Equipment



Multi-purpose Personal Hydration System



Individual Water Treatment Device



Army Mountaineering Kit

Procurement for Rapid Fielding Initiative



Improved Combat Vehicle Crewman (ICVC) Ensemble



OCP Flame Resistant ACU



Army Combat Shirt



Army Combat Pant



Hot Weather Mountain Combat Boot



Temperate Weather Mountain Combat Boot



Army Combat Gloves



Individual First Aid Kit II (IFAK II)



Lightweight Performance Hood (LPH)



Modular Ghillie Suit & Ghillie Suit Accessory Kit (GSAK)



Extended Cold Weather Clothing System



Army Aircrew Combat Uniform (A2CU)



Fuel Handlers Coverall



Modular Lightweight Load carriage Equipment

Sustainment



JPACE



JSLIST



HW & Temp Army Combat Boot



Extreme Cold Weather Boot



Modular Sleeping Bag Systems



Product Manager Soldier Clothing & Individual Equipment

Program of Record Development/ Initial Production & Fielding

RA-1 Advanced Ram Parachute System



Sustainment



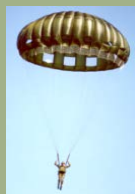
Electronic Automatic Activation Device



Parachutist Oxygen Mask



T-11 Advanced Tactical Parachute System (ATAPS)



MC-6 Steerable ATPS



Advanced Emergency Bailout Parachute



Future Development

Airdrop

- Enhanced Electronic Automatic Activation System
- Oxygen Consoles and Bottles
- Military Altimeters
- Static Line EAAD
- Transponders
- Parachutists Environmental Kit

Other Systems

- Environmental Protection Ensemble
- Integrated Load Carriage System
- Jungle unique uniforms/OCIE

Personal Clothing/Army Uniform Board



Army Physical Fitness Uniform (APFU)



Army Combat Uniform (ACU) & Ancillary items



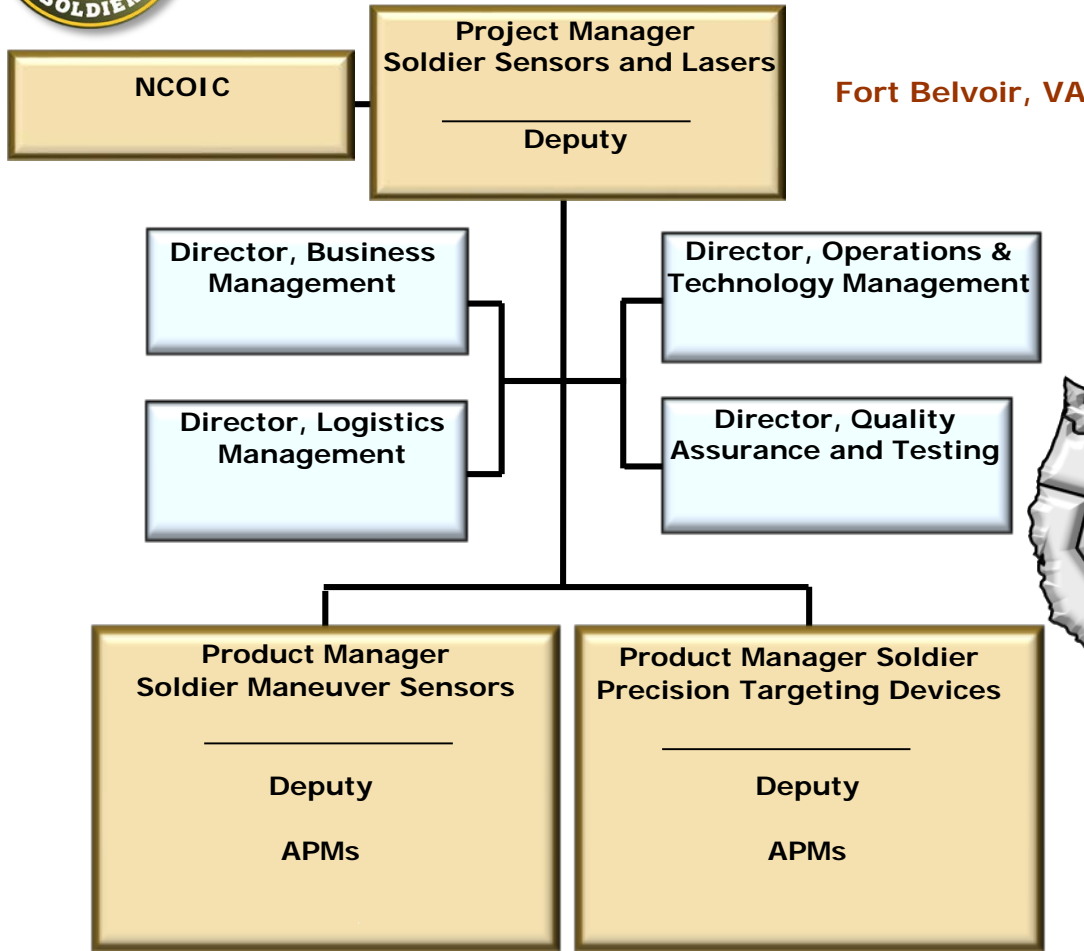
ACU-Female (ACU-F)



Army Service Uniform

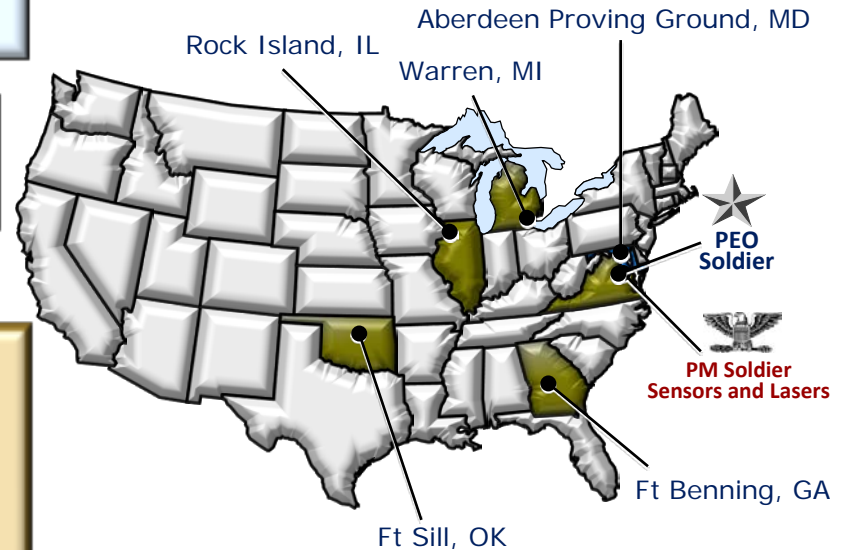


Project Manager Soldier Sensors and Lasers



PM SSL Mission:

Equip the Soldier with sensors, lasers, and precision targeting devices to dominate the battlefield through improved lethality, mobility, situational awareness, and survivability in all operational environments.



Beyond Own the Night ... See and Win the Fight!



Product Manager Soldier Maneuver Sensors

ENVG & FWS-I

AN/PSQ-20 Enhanced
Night Vision Goggle
(ENVG II)



Family of Weapons Sights-Individual
(FWS-I)

ENVG III



FWS-Individual

FWS-CS & S

Family of Weapons Sights-Crew Served
(FWS-CS)



FWS-Crew Served

Family of Weapons Sights-Sniper (FWS-S)



Legacy Systems

AN/PVS-14
Monocular Night
Vision Goggle (MNVD)



AN/AVS-6(V)3
Aviator's Night Vision
Imaging System
(ANVIS)



AN/PAS-13(V) Thermal
Weapon Sight (TWS)



AN/PVS-30 Clip On
Sniper Night Sight
(CoSNS)



AN/PEQ-15 & 15A
Multi-Function Aiming
Lights (MFAL)



AN/PEQ-14
Integrated Laser/
White Light Pointer
(ILWLP)



LA-8/P Aircrew
Laser Pointer
(ALP)



Green Laser
Interdiction
System (GLIS)



Product Manager Soldier Precision Targeting Devices



Fires

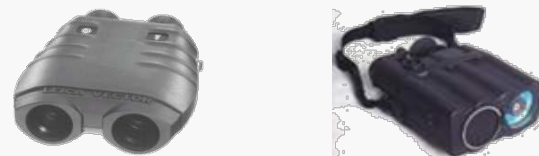


AN/PED-1
Lightweight Laser Designator Rangefinder (LLDR)



Joint Effects Targeting System (JETS)

Maneuver



Laser Target Location System (LTLS)



Laser Targeting Location Module (LTLM)



AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM) micro-Laser Range Finder (mLRF)

AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM) smaller, lighter extended performance (SLX)



Pre-Shot Threat Detection (PTD)



U.S. Army Rapid Equipping Force

This brief is **UNCLASSIFIED.**





Mission

Equip – Insert – Assess



Mission: The Rapid Equipping Force (REF) harnesses current and emerging technologies to provide immediate solutions to the urgent challenges of U.S. Army forces **deployed globally**.

Equip operational forces with solutions in order to reduce operational capability shortfalls, increase Soldier safety and reduce risk.



Containerized Weapons System (CWS)

Requirement: 10 Liner

Capability: Allows Soldiers to operate and engage in fire from a protected position. The CWS observes, detects, and engages targets with increased accuracy and reduced collateral damage and is used for integrated base defense and force protection.

Equipped: AUG 2011 – Ongoing

Insert future force technologies, threshold capabilities and/or surrogates into operational forces to speed development and validate concepts in an operational environment.



Altus

Requirement: Director's Initiative

Capability: Tactical aerostat platforms designed for small squad employment

Equipped: July 2010 – Ongoing

Insert effort that evolved into an equip and, ultimately, a harvest effort.

Assess the full range of desired capabilities and Army business practices to refine, modify and streamline actions and provide Army senior leaders with recommendations.



Soldier Load Assessment

Activity dates: 2008

Assessment: REF supported the multi-agency Soldier load study, which evaluated weapons, ammo, armor, protection items and other kit to provide recommendations concerning Soldier Load.

Partners: AWG, PEO-Soldier, ATEC, MCoE, ARCIC

Quickly tested and conducted operational assessments to evaluate several products for potential fielding



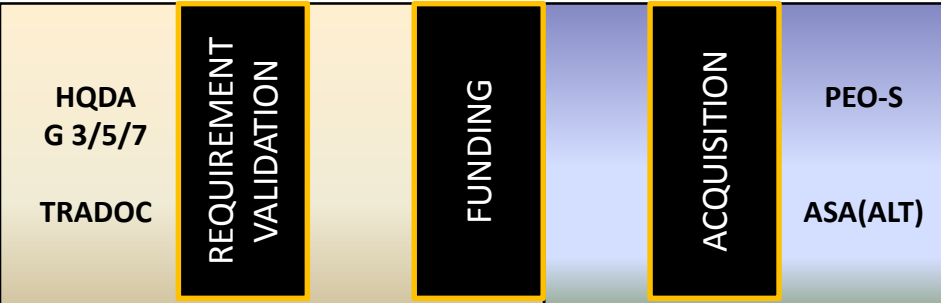
Unique Authorities

Equip – Insert – Assess



ONE TEAM

INNOVATIVE CULTURE



FLEXIBLE WORKFORCE

DEPLOYS TO ENSURE ACCESS TO COMMANDS & SOLDIERS

SENIOR LEADER CONFIDENCE

Requirement Validation

- REF Director is a HQDA selected Colonel authorized to approve requirements
- HQDA retains the authority to direct REF initiatives based on perceived Army problem sets

Flexible Funding

- REF has access to a mixture of OMA, OPA, and RDTE funds that allow the REF the agility to meet its missions without diverting funds from other programs

Acquisition Authority

- ASA(ALT) designated PEO-Soldier as REF's Milestone Decision Authority (MDA) (May 28, 2014)
- Program Manager, REF is a fully chartered PM office, reporting directly to PEO- Soldier and provides direct acquisition support to the REF
- Limited acquisition; not an ACAT program

REF is rapid because it combines requirement validation and acquisition authority and flexible funding under one roof.



REF ORG CHART

Equip – Insert – Assess



REF*
MIL: 29/29
DAC: 21/13



PM
REF**
MIL: 4/4
DAC: 1/1



Special Staff

- XO
- PAO
- Scientist

REF Director

SGM

Milestone Decision Authority

Project Manager

- Acquisition Cell
- Acquisition Analytics
- Management Cell *

Deputy Director Solutions Chief

Solution Cell

Business Management & Administration

- Human Resources
- Information Technology
- Business Management

Research and Analytics

- Intelligence

Requirements

Solution Team 1

- Requirement Development
- Expeditionary Teams
- Solution Development

Solution Team 2

Outreach and Assessments

Operations

- Current Ops
- Training & Readiness
- LNOs

Logistics

- Facilities
- Transportation
- Warehouse

Strategic Plans & Engagements

* Required /Authorized

** = REF personnel led by REF PM

Forward Support

BAF: Forward Team
 BAF: Expeditionary Lab
 Kuwait: USARCENT LNO
 Iraq (RFS Pending): CFLCC-I LNO



Over 12 Years of Results

Equip – Insert – Assess



REF Projects Retained by the Army

FY06: RAID
FY07: ACOG, M4 Suppressors, MAXI Candle
FY08: FIDO XT, Boomerang, SPARKs, Specialized Search Dogs
FY09: Tactical Ground Reporting (TIGR) System
FY10: ZBOLT
FY13: Light Tactical All Terrain Vehicle (LTATV)
FY14: Systems Under Review: LMAMS, Minotaur



PackBot



Biometrics



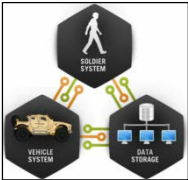
Frag Kit



Army Organic Airborne Electronic Attack



Plate Carrier



I-BESS



Containerized Weapon System



Rhino



Boomerang



COSFPS/Kraken



Aerostats



Minotaur



Counter-IED Interrogation Knives



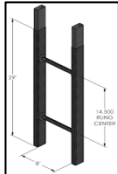
LMAMS



Raven



Recon Robot



Assault Ladders



RDISS



MPLC



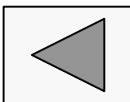
Video's



XM25



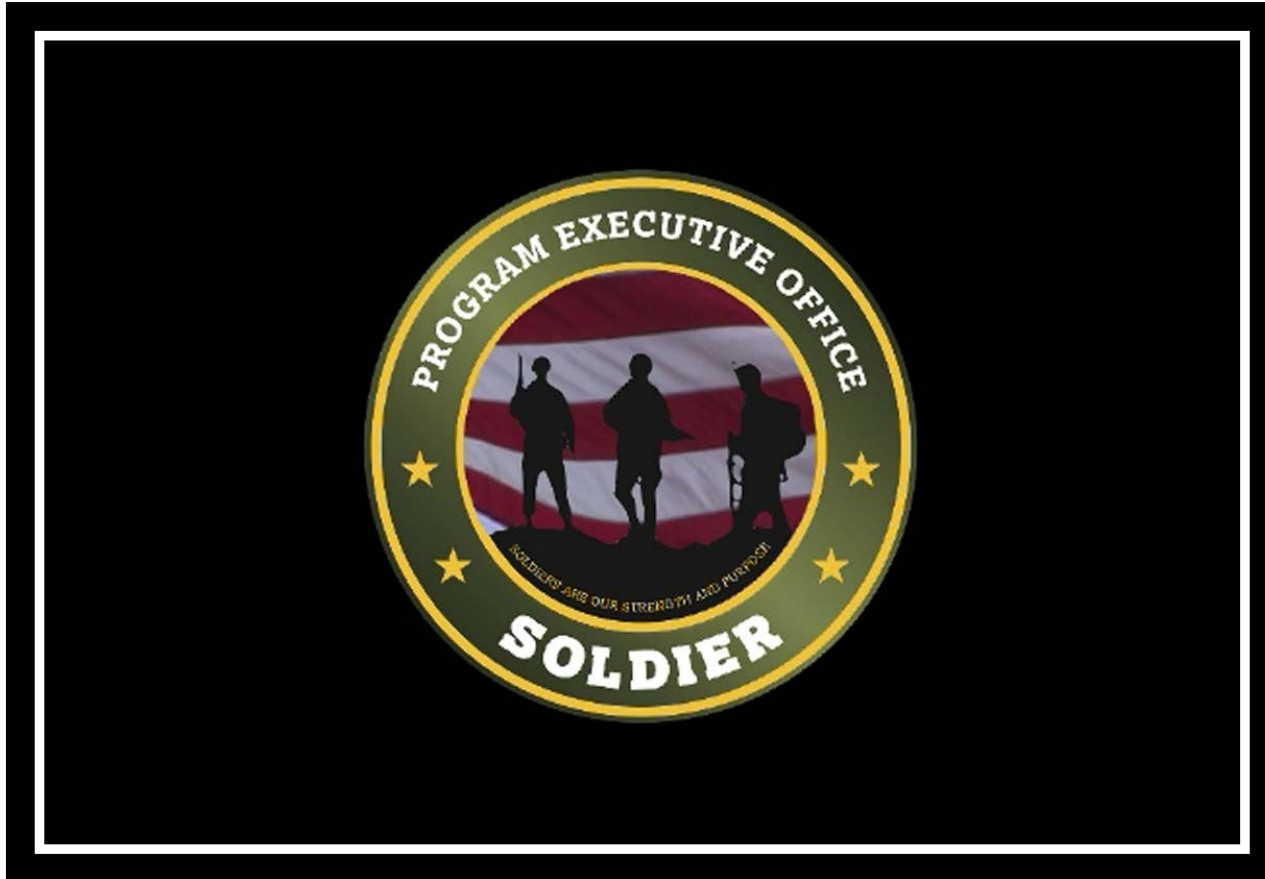
VIDEO:
MX25 Slow Motion lip
TIME: 1:06



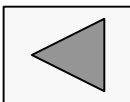
BACK



Nett Warrior



VIDEO:
Nett Warrior
TIME: 2:30



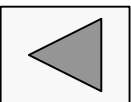
BACK



T-11



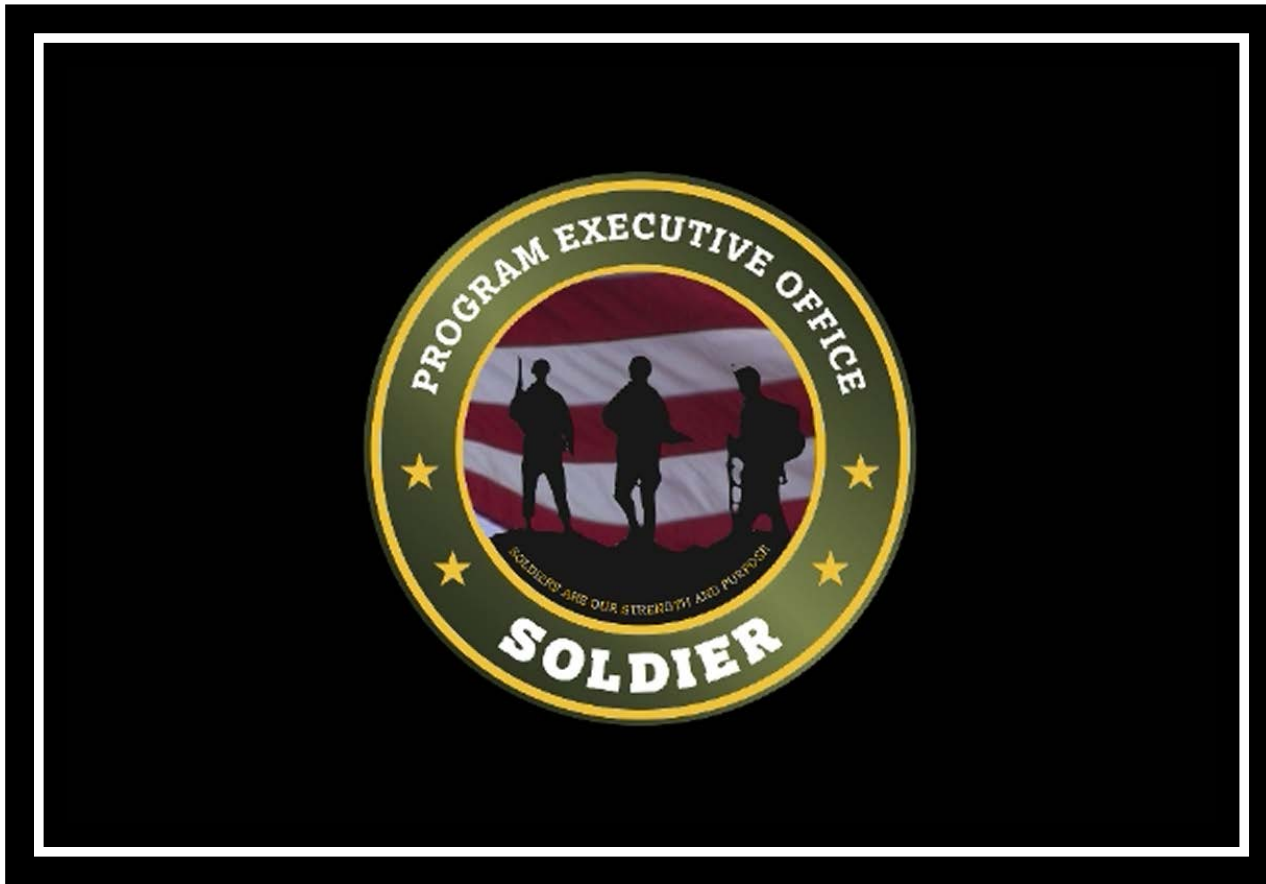
VIDEO:
T-11
TIME: 1:27



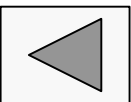
BACK



FWS-I



VIDEO:
FWS-I
TIME: 1:21



BACK