

**The Face  
of Freedom**



# **PEO Soldier Overview Briefing**

14 December 2004

*The Soldier: America's Most Deployed Combat System*

BG James R. Moran  
Program Executive Officer  
&  
CG, Soldier Systems Center



# One Team Fielding Soldier Products

TEAM SOLDIER



~ 300 Programs



**Requirements**

TRADOC

**Government Science & Technology**

**Testing**

ATEC Operational & Developmental Testing

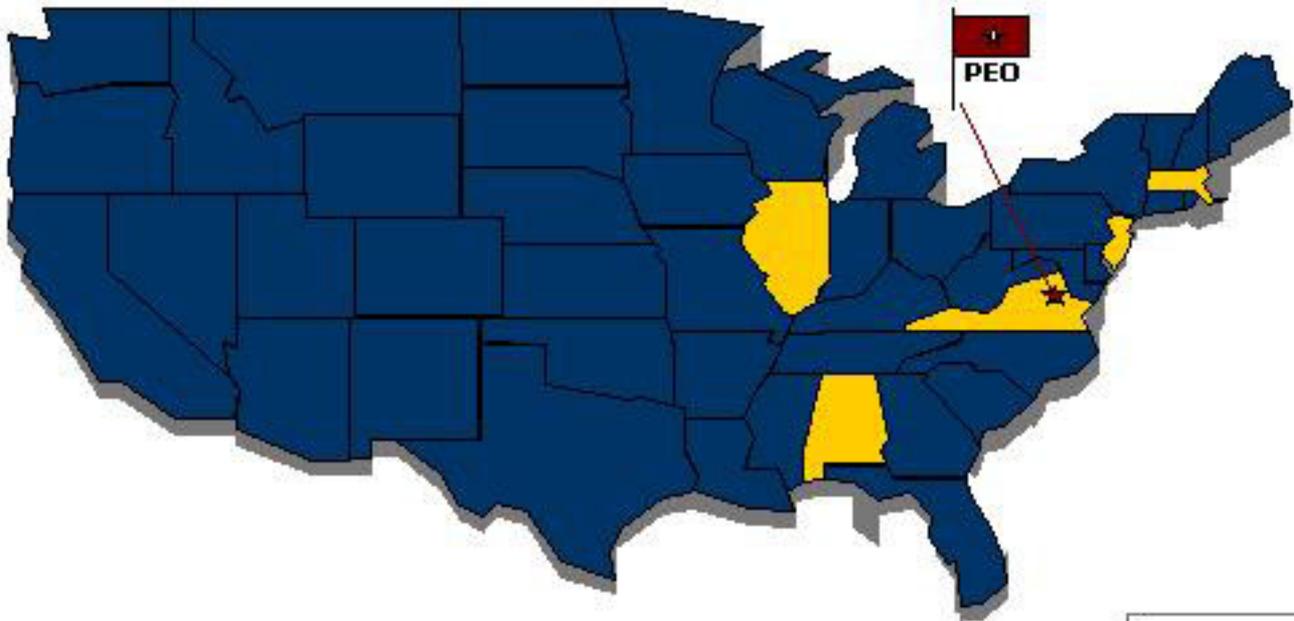
**Academia & Industry**

Gateway To The Soldier



# Program Executive Officer Soldier Locations

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 - Center of Gravity

Fort Belvoir, VA	
★	<b>PEO Soldier</b>
	PM Soldier Warrior
	PM Soldier Equipment
	PM Ground Warrior
	PM Sensors & Lasers
	PM Clothing & Ind Equip
	PM Future Warrior (planned)

Picatinny Arsenal, NJ	
	PM Soldier Weapons
	PM Individual Weapons
	PM Crew Served Weapons

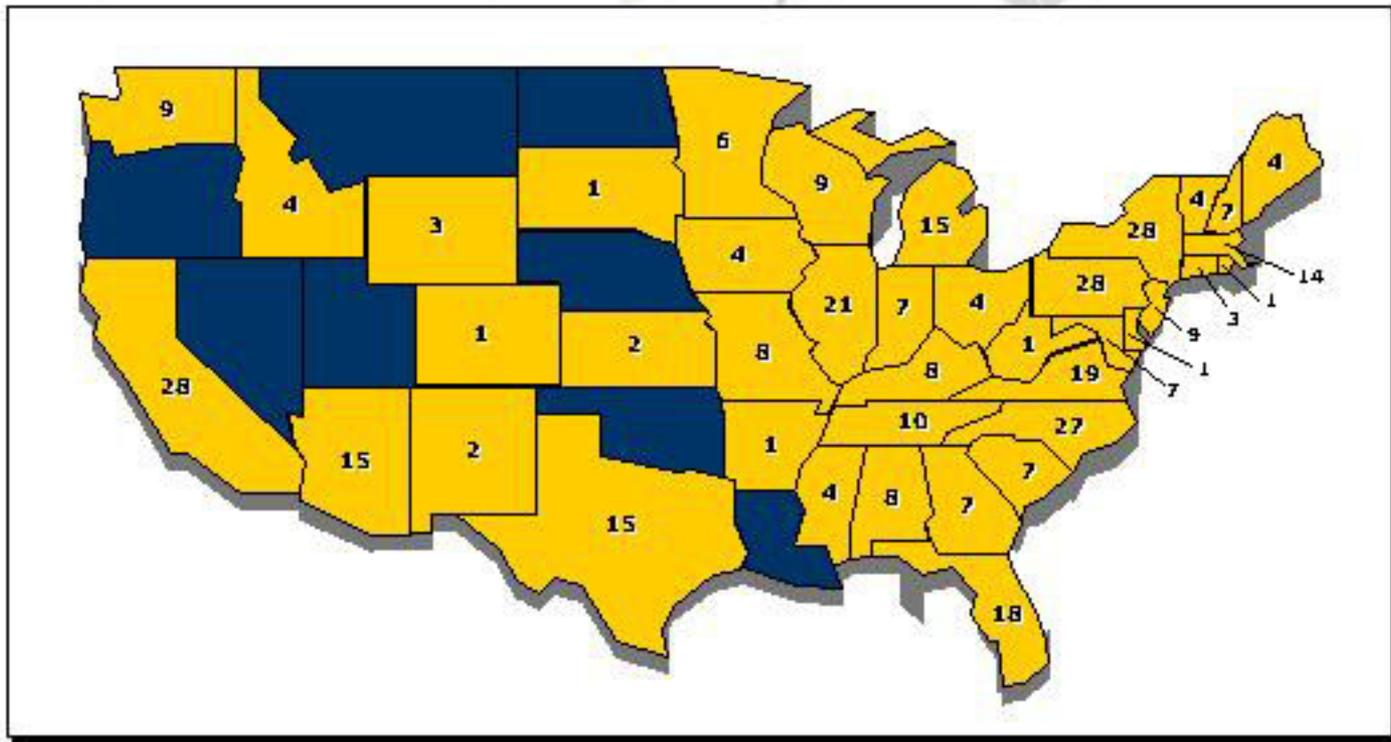
Redstone Arsenal, AL	
	PM Air Warrior

Matrix Personnel	
Fort Belvoir, VA	
Fort Monmouth, NJ	
Natick, MA	
Picatinny Arsenal, NJ	
Rock Island, IL	



# Manufacturers of Soldier Products

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<b>370 Soldier Products</b>	<b>40 States Manufacturing Products</b> <b>258 Manufacturers</b>
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# Soldier as a System

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Fielding the Future Soldier Requires Alignment and Funding of Multiple Programs



# Example Activities

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## Soldier Warrior

Ground Warrior



Air Warrior



Mounted Warrior

## Soldier Equipment

Organizational Clothing & Individual Equipment



Sensors & Lasers



## Soldier Weapons

Individual Weapons



Crew-Served Weapons





# Desired Ground Soldier Acquisition Strategy

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## Dismounted Battle Command In Support of GWOT

### PLATOON & COMPANY LEVEL

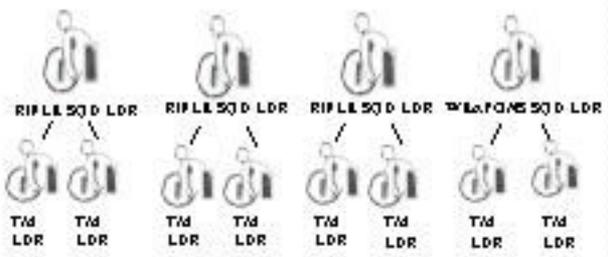
- Where Am I?
- Where Are My Buddies?
- Map & Overlays
- C2 Messages



Commander's Digital Assistant



EPLRS MicroLight



30 BCTs Funded

## Land Warrior II In Support of Stryker/FCS



Commander's Digital Assistant

**Soldier Equipment**  
 • Integrates Soldier Equipment Improvements Such as JSLIST /Interceptor Body Armor

Stryker Bn/FCS UA Unfunded

## Ground Soldier System In Support of FCS Spirals



Commander's Digital Assistant



JTRS Cluster V

Partial RDTE; No Procurement



# Air Warrior

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## The Soldier Integrate Equipment & Aircrew

## The Aircraft Integrate Aircrew, Systems & Aircraft

	
Helmet Mounted Displays	Microclimate Cooling Subsystem
	
HGU-56/P Helmet	Survival Equipment Subsystem
	
Laser Eye Protection	Low Profile Flotation Collar
	
Maxillofacial Shield	Flotation Collar w/Raft
	
Communications Earplug	
	
Electronic Data Manager	



Air Warrior




Microclimate Cooling

Cockpit Air Bag System

Aircraft Wireless Intercom

Helicopter Oxygen System



# Mounted Soldier Capabilities (Combat Vehicle Crewman)

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## Helmet Subsystem



Helmet Mounted  
Display &  
Cordless  
Communications

## Spiral 1

## Protective Clothing/ Individual Equipment Subsystem



SOF ONLY

JSLIST  
Block 1  
Glove Upgrade



CB Hardened  
Hydration System

Power Subsystem  
Rechargeable Battery (Li-Ion)  
(Vehicle Charges Crewman's  
Battery While Wearing)

### Additional Items of Ensemble

Flame Retardant Underwear & Socks  
Flame Retardant Footwear  
Reinforced One-Piece Overall  
Ambidextrous Shoulder Holster  
One Size Fit All CVCHS  
Light & Medium Weight Balaclava



NOMEX  
Gloves



Joint Service  
General Purpose  
Mask  
(JSGPM)



JSLIST  
TYPE - 7



Modular  
Body Armor



TYPE - 7  
Packaging

## Spiral 2

## Computer/Communications Subsystem



Wireless Intercom  
System

## Spiral 3

## Vehicle Interface Subsystem Micro-Climate Controller A-Kit



# Clothing & Individual Equipment

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**Infantry  
Combat Boot**



**Advanced  
Bomb Suit**



- ✓ Personnel Airdrop
- ✓ Ballistic/Personal Protection
- ✓ Tactical/Environmental Clothing
- ✓ Individual/Unit Equipment
- ✓ Chemical Gear
- ✓ Personal Clothing



**MP Belt**



**Interceptor  
Body Armor**



**Micro Rappel  
System**



**Advance Tactical  
Parachute System**



**Joint Service  
Lightweight  
Integrated Suit  
Technology (JLIST)**



**MOLLE 2  
(Army  
Version)**



# Sensors and Lasers

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**Cobra Multi-Function  
Laser System**



**Lightweight Laser  
Designator  
Rangefinder (LLDR)**



**VIPER**



**Aviator's Night Vision  
Imaging System (ANVIS)**



**Aiming Light/Illuminator  
AN/PEQ-2A**



**Thermal Weapon Sight  
(TWS)**



**Laser Borelight System**



**PVS-7 & PVS-14  
Night Vision Goggles**



**TWS - Light**



**TWS - Medium**



**TWS - Heavy**



**Enhanced Night Vision Goggles**

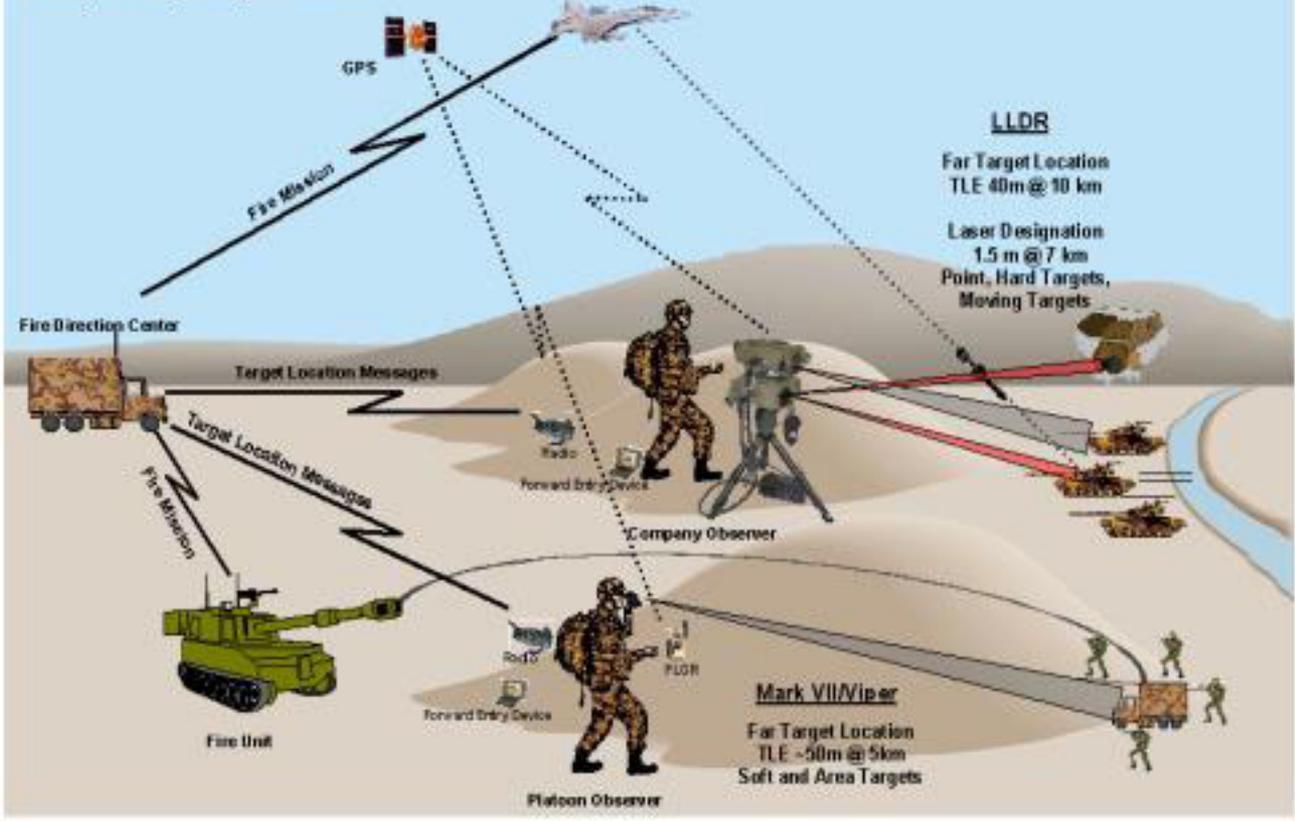


# Lightweight Laser Designator Rangefinder (LLDR)

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Today's Targeting Scenario



**Target Locator + Laser Designator**



# Handheld Laser Target Locators

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**Today**



**Mk VII Target Locator**



**VIPER (VECTOR 21)**

- 3X Increase in Night Range Capability
- 2X Increase in Target Location Accuracy
- Digitally Linked to Fire Support/Command and Control Systems

**Today**

~~**Tomorrow**~~



**DVO / BINO Version**



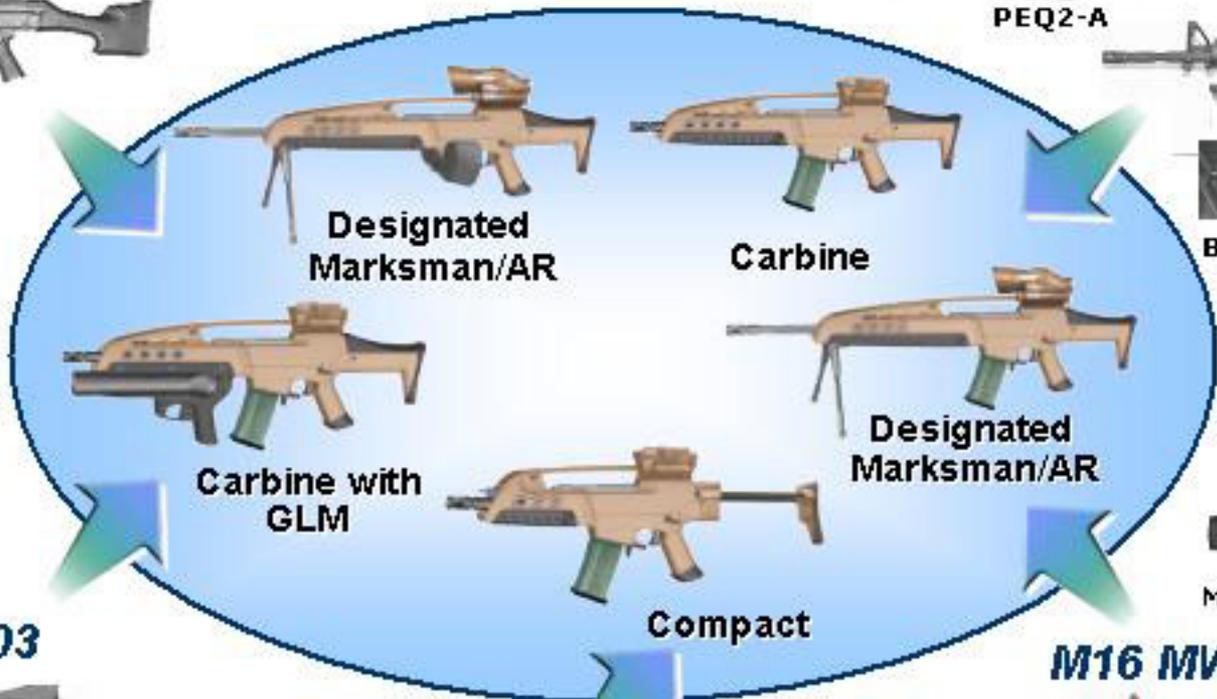
**IR Version**



# Objective Individual Combat Weapon Increment 1 Can Replace...

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## M249 (Auto Rifle Role)



## M203



Multiple Eaches Replaced by Single Integrated FAMILY

# Advanced Crew Served Weapon

XM307



- XM 307 25mm Replaces the MK19 Grenade Launcher

XM312



- XM312 .50 Cal Variant Replaces the 86-Year Old M2 .50 Cal Machine Gun

Kit Change at  
Unit Level (5 Parts)

- One Weapon Replaces Two Weapons - M2 & MK19
- Day/Night/All Weather Capable Fire Control



Shoots/Handles/Maintains Like A Light Machine Gun



# Common Remote Operating Weapons Station (CROWS)

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## Common Remote Operating Weapons Station



- Acquire and Engage Targets While Protected
- Supported Weapons
  - MK19, M2, M249, M240B
  - Designed to Support the XM307/XM312
  - Weapons are Quickly Interchangeable
- Day and Night Target Engagement
- Two Axis Stabilized Mount, Laser Rangefinder, and Fire Control Software
- On the Move Target Acquisition and First Burst Target Engagement
- Track Target Independently of Gun Motion

**Combat Proven in OIF**



# Sniper Rifle, .50 CAL, M107

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- Greater Destructive Force and Increased Rate of Fire Over the M24 Sniper Weapon
- Precision Fire Against Anti-Personnel/Anti-Material Targets
- Man-Portable, Multiple Round, Rapid Fire Capability
- All Weather, Day/Night Operations





# Other Soldier Weapon Programs

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**40mm Grenade  
Launcher Module (GLM)**



**XM110, 7.62mm Semi-Automatic  
Sniper System (SASS) SEP Program**



**XM26, 12 Gauge, Modular  
Accessory Shotgun System (MASS)**



**M240H, 7.62mm MG  
(Aviation Version)**





# Rapid Fielding Initiative Background

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**Performance of Soldier Weapons and Equipment in Afghanistan**

## Bottom Line

Background: The Support-Development Team visited units in Afghanistan and after redeployment



**Conclusion:** Despite Shortages and Shortcomings, Weapons and Equipment are good.

- **Silver Linings:** We are working quick & easy
- **Silver Linings:**

- Unit funds are insufficient to buy available
- Fielding plans do not meet their needs
- Soldiers are subsidizing the Army's underfunding of organizational clothing and individual equipment

### Shortages:

- Unit Funds are Insufficient to Buy Available Equipment
- Fielding Plans do not Meet Their Needs
- Soldiers are Subsidizing the Army's Underfunding of Organizational Clothing and Individual Equipment

## What Soldiers Want/Buy

 Sunglasses 9-65-01-17-004	 Assault Pack 9-65-01-207-0120	 Insulation Socks 9-65-01-465-2154	<b>In Development</b> Socks      Modular Glove	
 GPS 9-675-01-37-6643	 Lensatic Compass GSA Catalog Item	 Polypropylene Underwear 9-15-01-227-0547	<b>SEP Candidates</b>	
 Helmet Pad 9-70-01-36-7074	 Belt Pack 9-65-00-105-0025	 Multipurpose Tool 5110-01-430-0051	<b>Space Market</b>	
 Camo Goggles	 Camo Goggles	 Camo Goggles	 Cargo Bags	 Compass

Army Could Free Issues These Items

## What Units Want/Buy

 Advanced Combat Helmet 9-65-01-75-2521	 Black Fleece & "Bear Suit" 9-15-01-461-6041 9-15-01-220-1350	 Viper 1240-09-000-1994	 USAF Desert Flight Boots 9-30-01-403-0541	 Interceptor Body Armor 9-70-01-465-1326
 Thermal Weapon Sight 9-65-01-64-3130	 NOLLE 9-65-01-424-6572	 N L33/N L33AL Tripod 1005-00-710-0594 1005-01-433-1617	 N L45 NG Optic 1240-01-111-0250	 NGC Class Combat Optic 1240-01-111-1265

Army Could Free Issues to Units or Accelerate Fielding



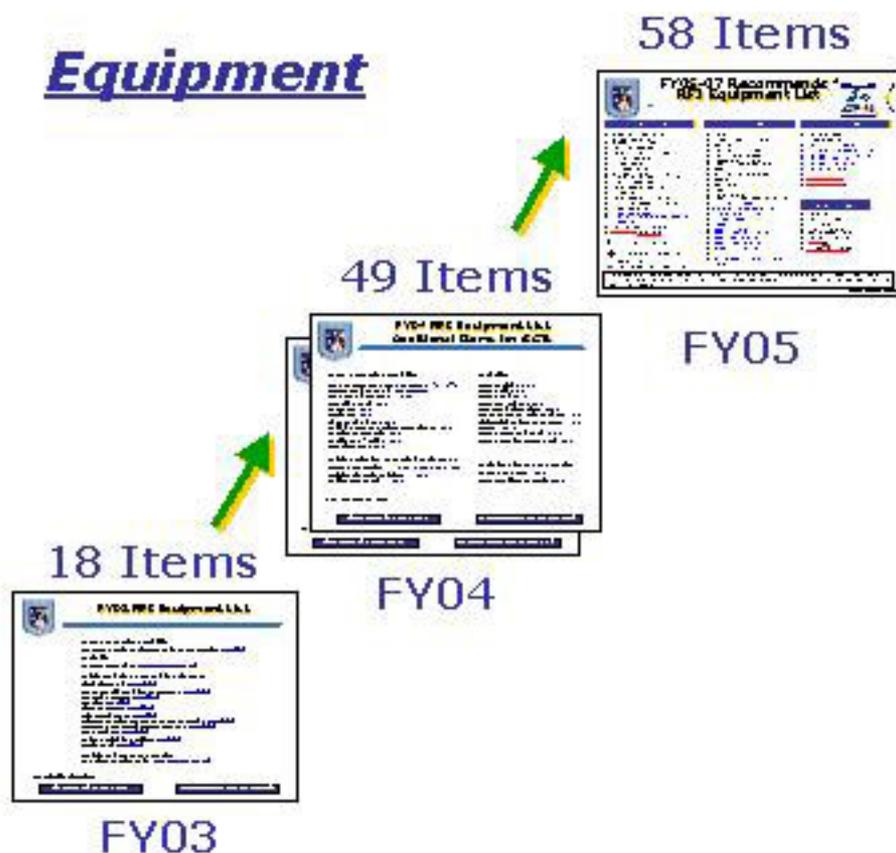
# Rapid Fielding Initiative

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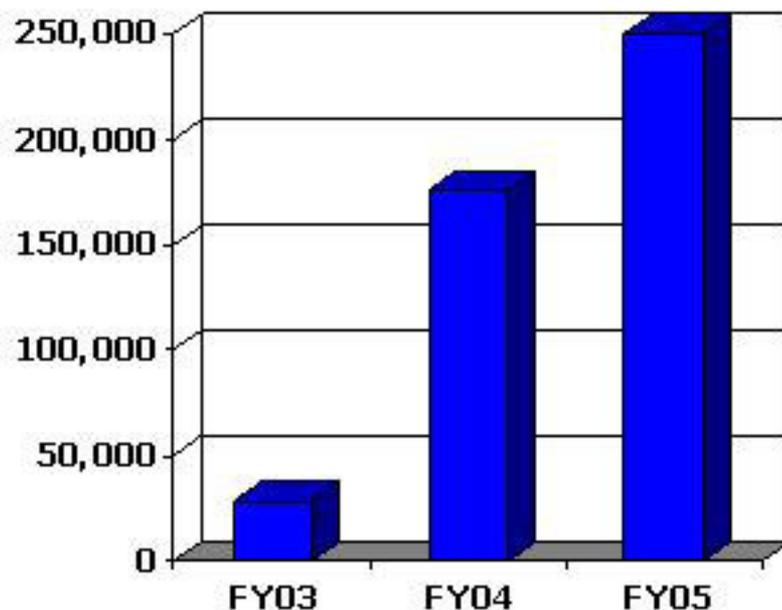
“Equip all Soldiers with the Best Possible Equipment,  
and do it *Before* They Deploy.”

GEN Schoomaker, CSA – Oct 2003

## Equipment



## Soldiers





# Supporting Deployments

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## FY03 – 8 BCTs



Partial Issue

## FY04 – 19 BCTs



## FY05 – 26 BCTs

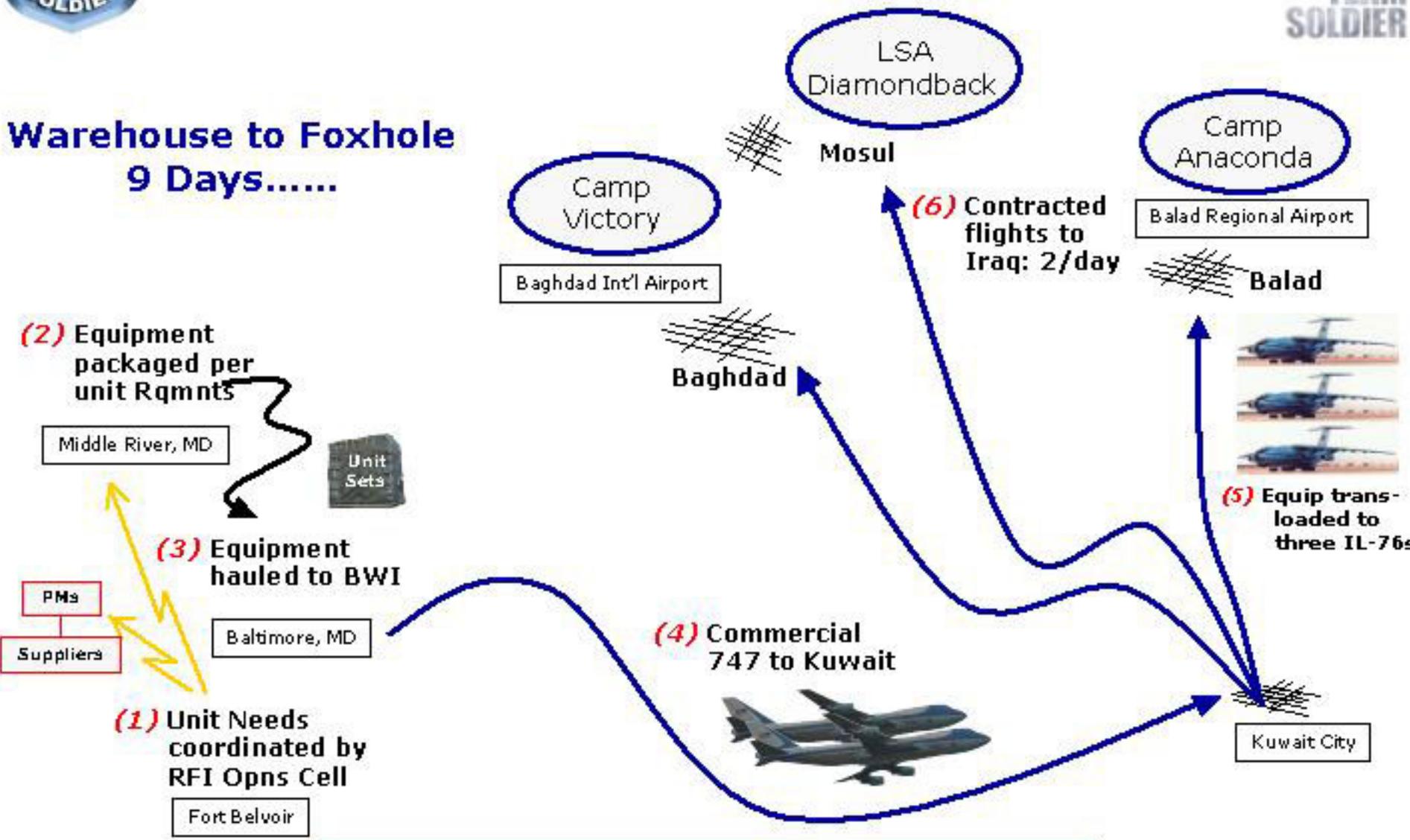




# Execution - OCONUS

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## Warehouse to Foxhole 9 Days.....



**(2) Equipment packaged per unit Rqmnts**  
 Middle River, MD  
 Unit Sets

**(3) Equipment hauled to BWI**  
 Baltimore, MD

**(1) Unit Needs coordinated by RFI Opns Cell**  
 Fort Belvoir

PMs  
Suppliers

**(4) Commercial 747 to Kuwait**

**(6) Contracted flights to Iraq: 2/day**

**(5) Equip trans-loaded to three IL-76s**

Up to 5,000 Soldier Kits Shipped Per Week



# Campaign Plan - FY04 & FY05

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**Working Draft**

	2004												2005											
	1Q			2Q			3Q			4Q			1Q			2Q			3Q			4Q		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Ver 2.0 Aug 2004																								
<b>BCTs</b>	0	0	1	4	2.5	3	0	1	0.5	2	3	2	2	2	3.5	3	2.5	1	4	3	0	2	1	2
	1			9.5			1.5			7			7.5			6.5			7			5		
<b>EABs</b>	0	0	0	0	0	1	5	4	6	5	4	5	5	6	2	2	2	5	2	3	6	4	5	4
	0			1			15			14			13			9			11			13		

**Legend:** FY04 \$ Bridge \$ FY05 \$



# Campaign Plan - FY06 & FY07

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**Working Draft**

	2006												2007												
	1Q			2Q			3Q			4Q			1Q			2Q			3Q			4Q			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Ver 2.0 Aug 2004																									
<b>BCTs</b>	2.5	0	0	2	2	2	1.5	2	3	2	3	2	1	0	0	0	1	2	2	2	2	2	1	0	
	2.5			6			6.5			7			1			3			6			3			
<b>EABs</b>	3	3	4	4	4	3	3	3	3	3	2	3	4	5	4	4	4	3	3	2	2	2	2	2	
	10			11			9			8			13			11			7			6			

Legend: FY06 \$ FY07 \$



# FY04 RFI Equipment List Items for All Soldiers

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## Force Protection/Mobility

Advanced Combat Helmet (ACH) and Accessories (1/Soldier)

## Lethality

M4/M16 Magazines (14,700/BCT-eSB-EAB Set)

## Soldier Mission Essential Equipment

Black Fleece Bibs (1/Soldier)

USSOCOM Silk Weight Underwear (2 SE/Soldier)

Hydration System (1/Soldier)

Goggles (1/Soldier)

Glove System (1 SE/Soldier)

Cold Weather Cap (1/Soldier)

Infantry Combat Boot Type II (AF Desert) (1 PR/Soldier)

Improved Hot Weather Desert Boot (1 PR/Soldier)

COTS Socks (4 PR/Soldier)

Moisture Wicking T-Shirts (4/Soldier)

Combat Belt (1/Soldier)

## Individual Weapons Optics

M68 Close Combat Optic\* (1,418/BCT-eSB-EAB Set)

*\*Not an individual issue item*

List approved by Army G3/G8

IBA, MOLLE, TWS funded separately



# FY04 RFI Equipment List

## Additional Items for *BCTs*

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### Force Protection/Mobility

MICH Comms Systems & Access. (150/BCT)  
Knee and Elbow Pads (1/Soldier)  
Grappling Hook (27/BCT)  
Door Ram (27/BCT)  
Battle Axe (27/BCT)  
Fiber Optic Viewer (27/BCT)  
Quickie Saw and Replacement Blades (27/BCT)  
Modular Entry Tools (27/BCT)  
Double Key – Cuff (8,500/BCT)  
Assault Ladder (27/BCT)

### Soldier Mission Essential Equipment

MOLLE Accessories\* (1/Soldier & Special by Eq. Type)  
Individual Combat Shelter (1/Soldier)  
Multipurpose Tool (1/Soldier)

*\*Includes Hydration System*

### Lethality

Weapon Light (768/BCT)  
M249 Rail (369/BCT)  
M240B Rail (83/BCT)  
M122/A1 Tripods (87/BCT)  
M24 Small Binoculars (882/BCT)  
VIPER (VECTOR 21)/Mark VII (58/BCT)  
Lightweight Shotgun System (162/BCT)  
MBITR (149/BCT)  
M249 Ammo Soft Pack (369/BCT)  
M240B Combat Ammo Pack (83/BCT)

### Individual Weapons Optics

TA31F - 4X ACOG (170/BCT)  
M145 Machinegun Optic (342/BCT)

*List approved by Army G3/G8*

*IBA, MOLLE, TWS funded separately*



# Our Mission

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- **Saving Soldiers' Lives**
- **Improving the Soldiers' Quality of Life**
- **Improving the Soldiers' Combat Effectiveness**

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