

The logo is a circular emblem with a yellow border. Inside the border, the words "PROGRAM EXECUTIVE OFFICE" are written in a semi-circle at the top, and "GROUND COMBAT SYSTEMS" is written in a semi-circle at the bottom. The center of the logo features a stylized American flag with stars and stripes. Overlaid on the flag is a white banner with the text "Systems Integrator for the Armed Forces of Today and Tomorrow".

***PEO-GCS Managed Systems
Current Force***

**Advanced Planning
Briefing to Industry**

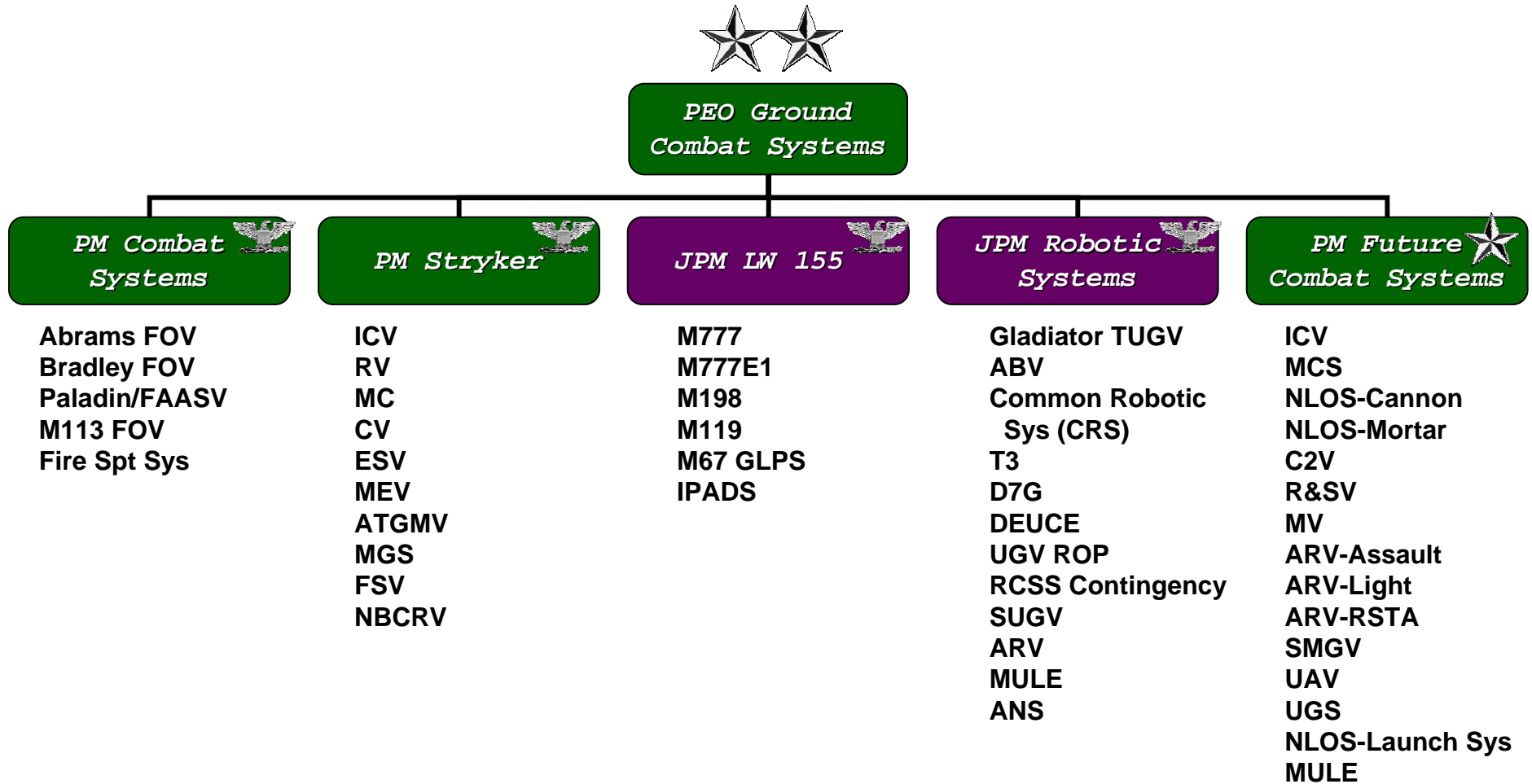
**Mr. Albert Puzzuoli
Deputy Program Executive Officer, Ground Combat Systems
October 30, 2003**



This is not a Blank Chart.



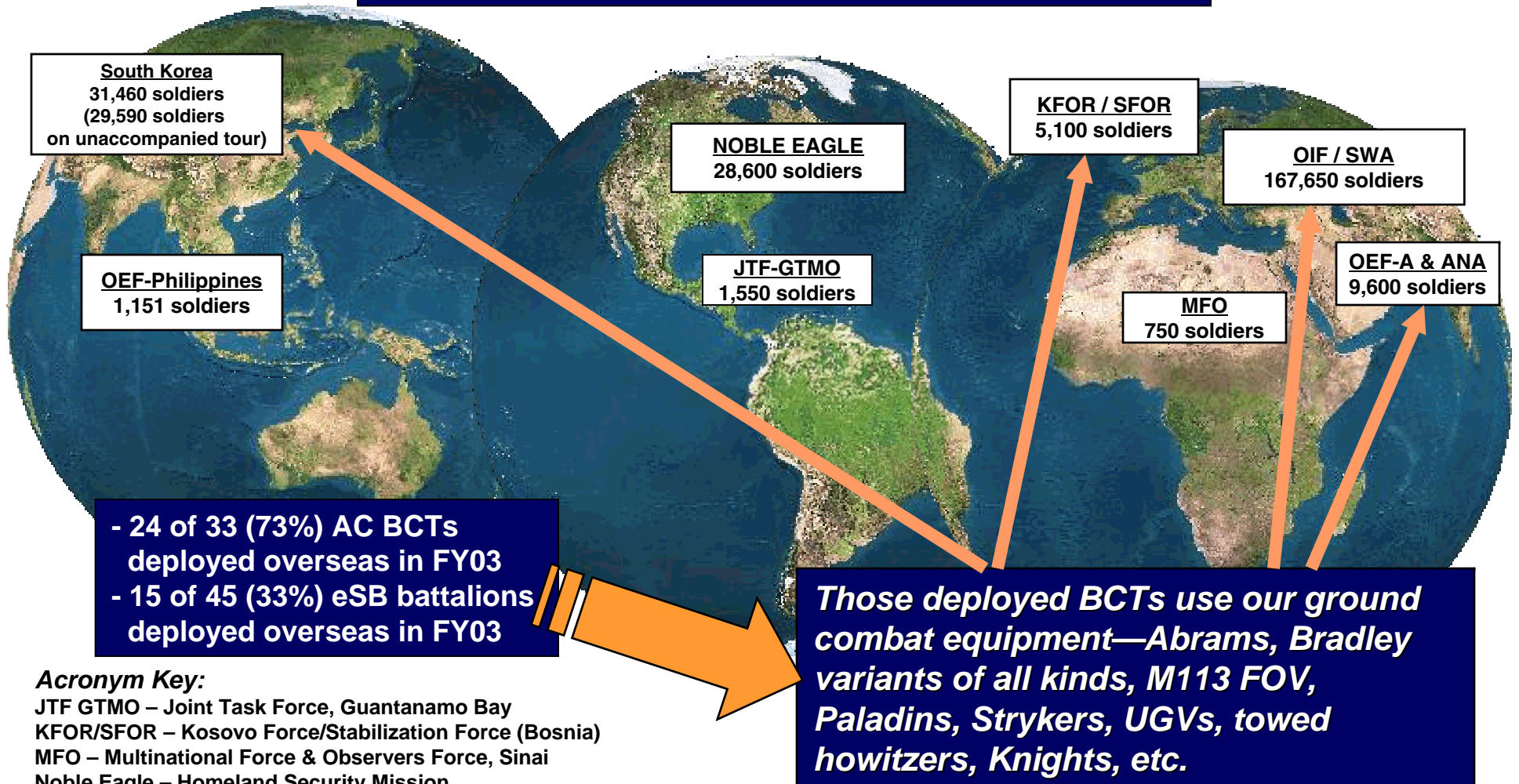
PEO-GCS Organization





Army Global Commitments

**368,900 soldiers over-seas in 120 countries
(approx. 215,000 on unaccompanied tours)**



Acronym Key:

- JTF GTMO – Joint Task Force, Guantanamo Bay
- KFOR/SFOR – Kosovo Force/Stabilization Force (Bosnia)
- MFO – Multinational Force & Observers Force, Sinai
- Noble Eagle – Homeland Security Mission
- OEF – Operation Enduring Freedom
- OIF – Operation Iraqi Freedom



How good are our systems?

Some data from Iraq

▲ **Abrams**

➤ **Protection**

- ★ Front armor (turret and hull) continues to provide maximum protection.
- ★ Left and right non-ballistic skirts repeatedly penetrated, but no KIAs.

➤ **Firepower and Target Acquisition**

- ★ Fighting in the cities and towns made crew-served machine guns the choice for most engagements.
- ★ MPAT was main gun round of choice, followed by HEAT

➤ **Automotive**

- ★ Outstanding mobility—key enabler contributing to speed and length of attack
- ★ High OPTEMPO in very harsh environment

▲ **Bradley**

➤ **Protection**

- ★ Turret and hull armor performed better than expected
- ★ Enemy repeatedly attacked from the flank

➤ **Firepower and Target Acquisition**

- ★ Soldiers continue to praise turret responsiveness and handling
- ★ M919 Depleted Uranium round provides excellent punch and penetration capability
- ★ Fighting in cities and towns made 25mm and 7.62mm the weapons of choice

➤ **Automotive**

- ★ Outstanding mobility,-key enabler contributing to speed and length of attack
- ★ High OPTEMPO—1-10 Cav, 4ID, traveled 1250 miles in the first 6 week in theater. Most Bradley Bns exceed DA annual OPTEMPO levels every 5 to 6 weeks

FSR Support: Exceptional support from all contractors supporting Abrams and Bradley in theater (includes GDLS, UDLP, Raytheon, DRS). FSRs are totally embedded in the units, live under the same conditions as soldiers. Soldiers respect the value that FSRs bring to the table.



PEO-GCS Managed Systems

103
Systems



PM Combat Sys				
Abrams	M1	Paladin	M109A6	
	M11P		M992A2 FAASV	
	M1A1	M113 FOV	M113	
	M1A1 HA		M113A1	
	M1A1 HA Common		M113A2	
	M1A1 D		M113A3	
	M1A1 AIM		M113A3 + ESV	
	M1A2		M113A4 AMEV	
	M1A2 SEP		M58 Smoke Gen Carrier	
	M104 Wolverine		M106A2 107mm Mortar Car	
	Egypt Co-production M1A1		M125 81mm Mortar Car	
	KSA M1A2		M548A1	
	Kuwaiti M1A2	M548A3		
	Bradley FOV	M2A0		M577A2 CP
		M2A0 AMEV		M577A3 CP
		M2A1		M730A2 Chaparrel Car
		M2A2		M901A1 ITV
M2A2 ODS			M901A3 ITV	
M2A3			M981 FISTV	
M2A3 + ESV			M981A3 FISTV	
M2A3 BFIST			M1059A3 Smoke Gen Car	
M3A0			M1064 120mm Mortar Car	
M3A1			M1064A3 120mm Mortar Car	
M3A2			M1068 SICPS	
M3A2 ODS			M1068A3 SICPS	
M3A3			XM1108 Universal Car	
M2 Linebacker			OSV	
M7 BFIST		JPM Robotic Sys		Gladiator TUGV
M8 AGS				Assault Breaching Veh (ABV)
C2V				Common Robotic Sys (CRS)
Battle Command Veh (BCV)			T3	
M993A1 MLRS Carrier			D7G	
M707 Knight (HMMWV)			DEUCE	
			UGV ROP	
PM BCT (Stryker)	M1126 ICV		RCSS Contingency	
	M1127 RV		Small Man-packable GV	
	M1129 MC		MULE	
	M1130 CV		Armed Robotic Vehicle (ARV)	
	M1132 ESV		Autonomous Nav Sys (ANS)	
	M1133 MEV	PM LW155		M777 155mm How
	M1134 ATGMV			M777E1 TAD
	XM1128 MGS			M198 155mm Med Towed How
	XM1131 FSV			M119 105mm Light Towed How
	XM1135 NBCRV			M67 GLPS
PM FCS			IPADS	
	Manned		Unmanned	ARV-Assault
				ARV-Light
				ARV-RSTA
				Small Man-packable GV
				UAV (Classes HV)
				Unattended Gnd Sensors (UGS)
NLOS Launch System				
			MULE	



AP



PM Combat Systems



SO



Combat Systems 1-N List



- ▲ 2d Generation FLIR
- ▲ Driver's Enhanced Vision Capability
- ▲ Blue Force Tracking/FBCB2
- ▲ AIM/Recap
- ▲ Engine Improvement
- ▲ Embedded Training
- ▲ Armor Upgrades
- ▲ Active Protection
- ▲ Electronic Obsolescence
- ▲ Tactical Voice Recognition
- ▲ Training Ammo





Combat Systems Shortfalls/Challenges & Opportunities for Industry

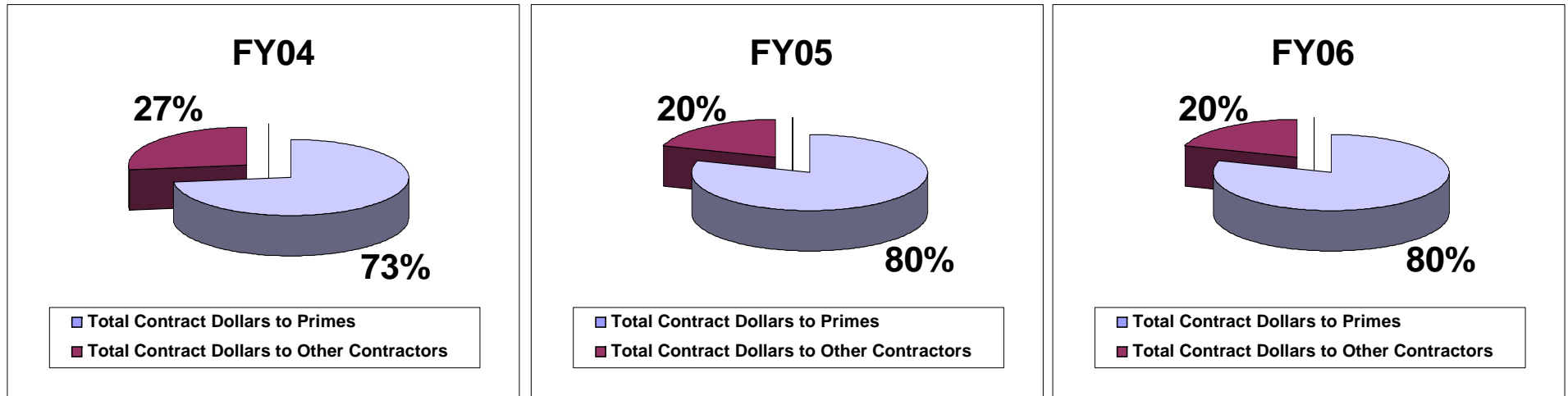


- ▲ **Fielding 3ACR**
- ▲ **Fleet Recapitalization/CVE Analysis**
- ▲ **Abrams Engine Improvement Program**
- ▲ **Alternative Aux Power Unit (APU)**
- ▲ **Hybrid Electric Drive**
- ▲ **Mounted Battle Command on the Move (MBCOTM)**
- ▲ **Active Protection Systems**
- ▲ **Helmet Mounted Cordless Communications**
- ▲ **Embedded Diagnostics/Prognostics**
- ▲ **Embedded Training**
- ▲ **Electronics Obsolescence**
- ▲ **Integration of New Technologies from FCS**
- ▲ **Sale/Upgrade/Disposal of Long Supply and Excessed Fleets**
- ▲ **Muzzle Velocity System**
- ▲ **Semi-automatic Loader/Laser Ignition System**
- ▲ **Suspension Durability Improvements**
- ▲ **FBCB2/Blue Force Tracking Situational Awareness**
- ▲ **OIF Reset**





Combat Systems Contractor Dollars FY04 – FY06



Dollars in M					
	Total Contract Dollars	Total Contract Dollars to go to Prime	Percent of Contract Dollars for Prime	Total Contract Dollars to go to Other Contractors	Percent of Contract Dollars for Other Contractors
FY 04	937.1	682.0	73	255.1	27
FY 05	523.6	418.3	80	105.3	20
FY 06	470.1	374.8	80	95.3	20

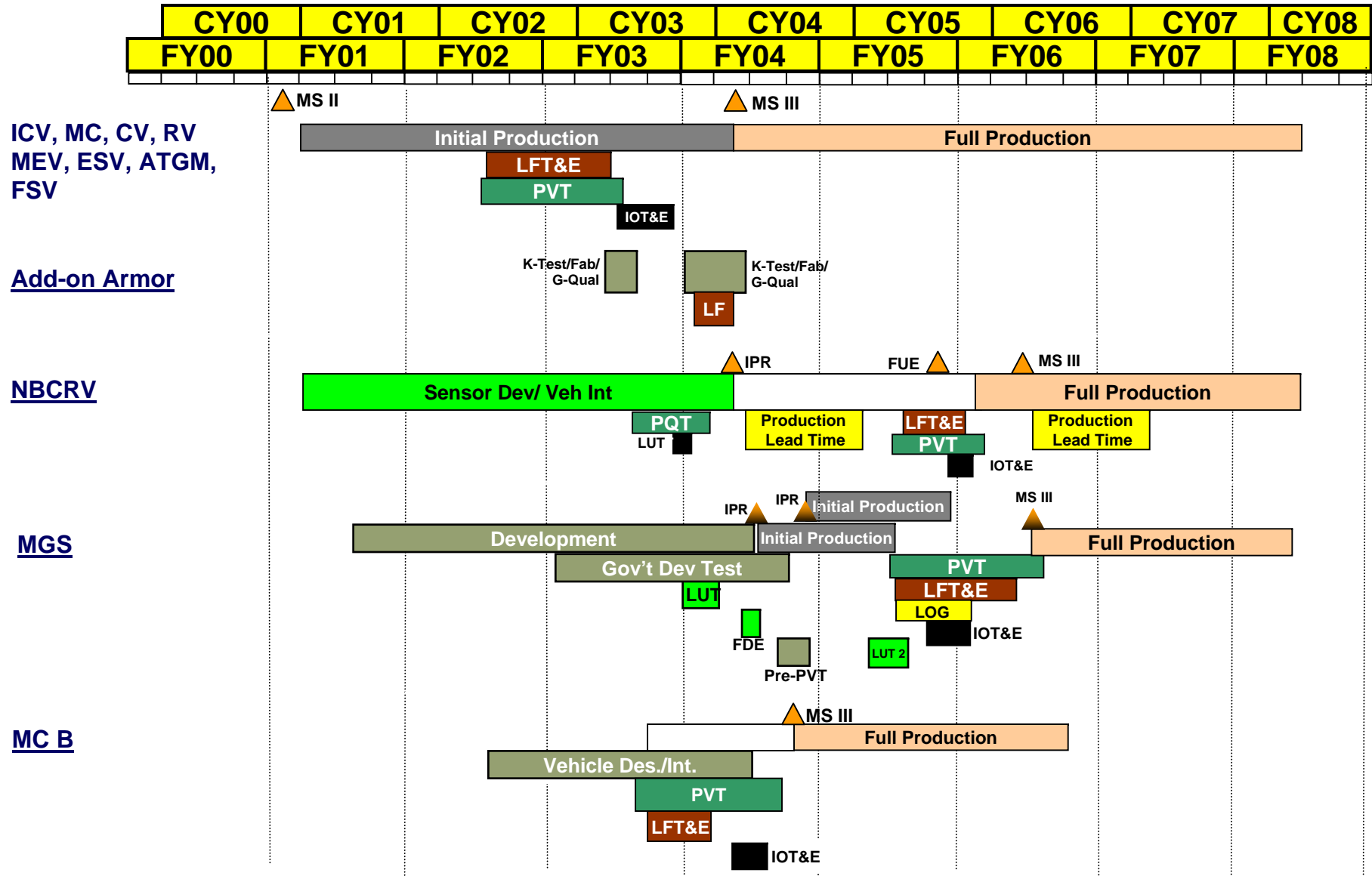


PM Stryker



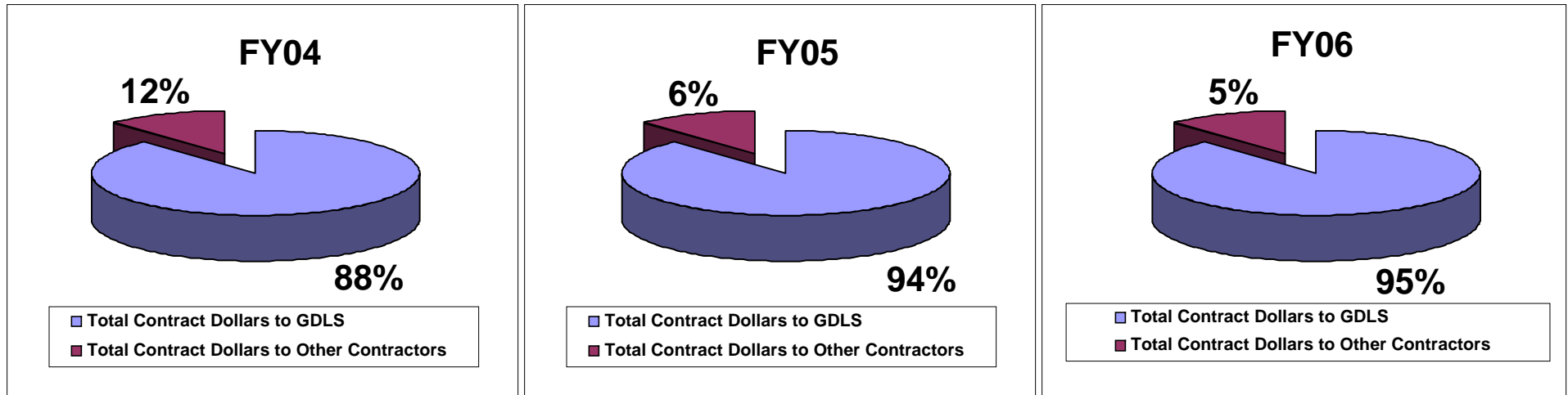


Stryker Program Schedule Overview





Stryker Contractor Dollars FY04 – FY06



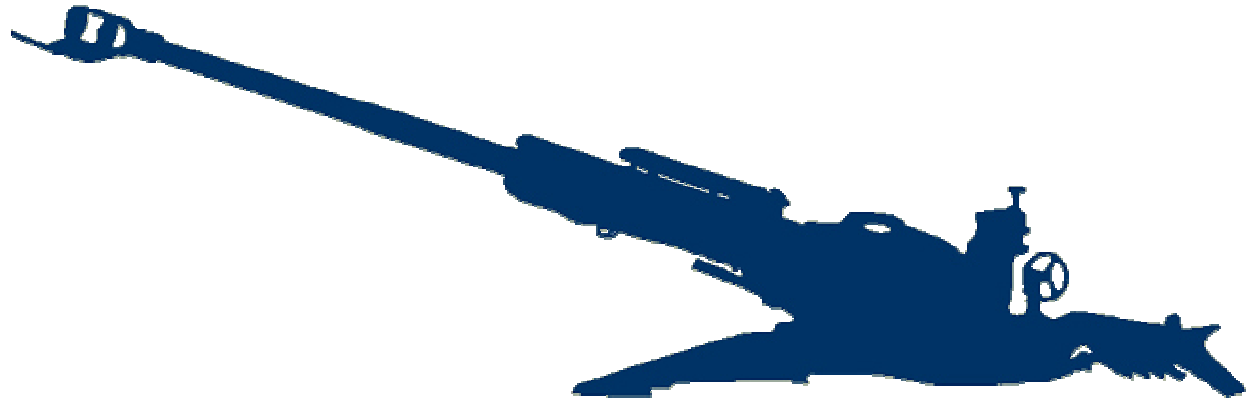
Dollars in M

	Total Contract Dollars	Total Contract Dollars to go to GD	Percent of Contract Dollars for GD	Total Contract Dollars to go to Other Contractors	Percent of Contract Dollars for Other Contractors
FY 04	779.193	686.305	88.08	92.888	11.92
FY 05	708.035	664.421	93.84	43.614	6.16
FY 06	865.126	822.712	95.10	42.414	4.90

Note: Includes GFM



JPM LW155



LW155





LW155 System M777 and TAD



M777 Howitzer



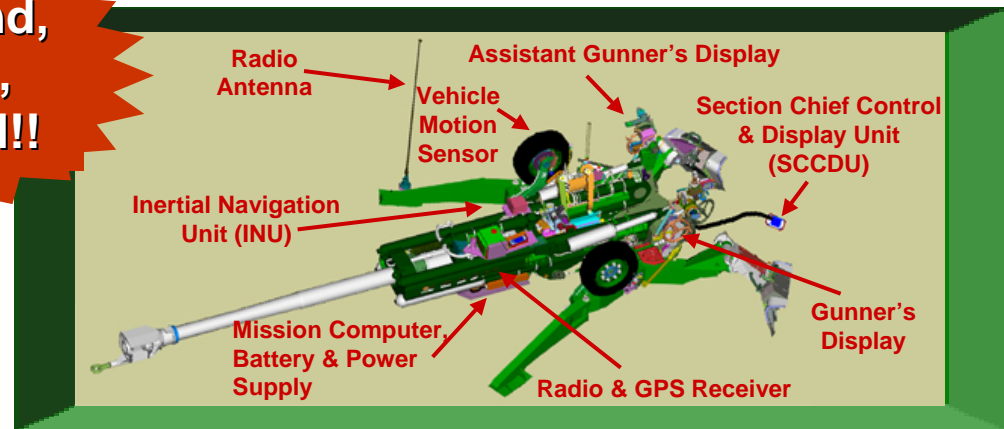
- Lightweight High-Strength Titanium
- Improved Strategic Deployment
- Improved Ground Mobility
- Improved Survivability

**Harder to Find,
Harder to Hit,
Harder to Kill!!**

- Improved Accuracy
- More Responsive

- Flexible Operations
- No Survey

Towed Artillery Digitization (TAD)





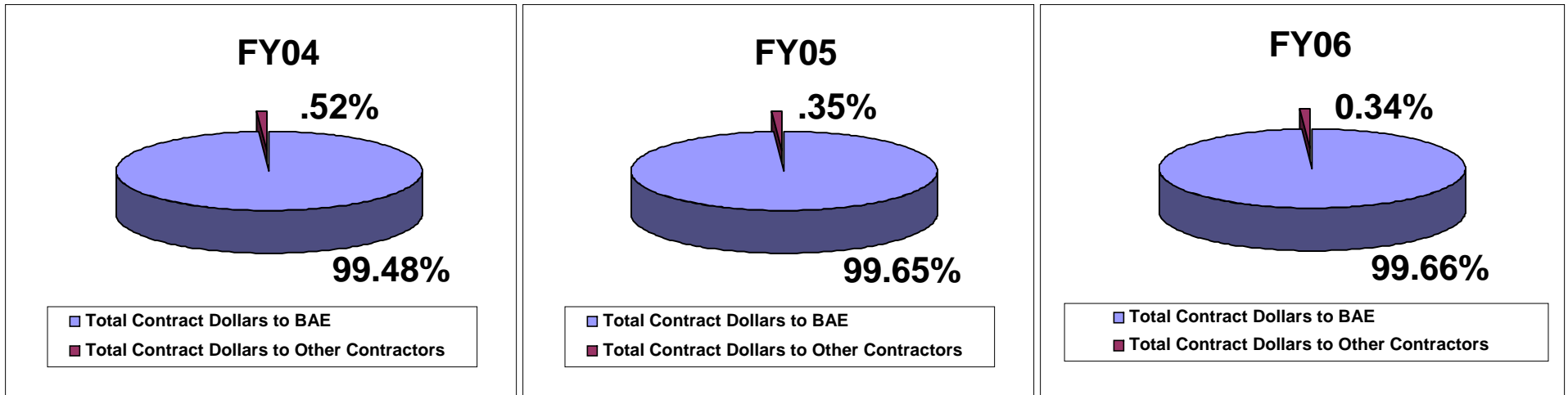
LW155 Program Status & Path Forward



- ▶ **LRIP contract awarded for 94 USMC systems (26 November 2002)**
- ▶ **ASN (RDA) approved a joint multi-year contract strategy for Full-Rate Production (FRP)**
 - ▶ FRP contract for 516 USMC & Army systems under development
 - ▶ FRP Decision (December 2004)
 - ▶ Contract Award (January 2005)
- ▶ **Testing of the basic M777 is complete**
 - ▶ Operational Assessment completed June 2002
 - ▶ Completed Reliability Testing (June 03) & Corrosion Testing (July 03)
- ▶ **TAD integration and testing of the M777E1 is underway**
 - ▶ Completed Contractor Logistics Validation & Mini Log Demo (July 03)
 - ▶ Conducting Functional Qualification Testing of TAD software
 - ▶ Electronic & Electromagnetic Effects Testing is ongoing
 - ▶ Strength of Design/Safety Testing is also underway
 - ▶ Cold Regions Testing is planned for November 2003 - March 2004
 - ▶ Joint Operational Testing is planned for August – September 2004



LW155 Contractor Dollars FY04 – FY06



Dollars in M

	Total Contract Dollars	Total Contract Dollars To go to BAE	Total Contract Dollars To go to Other Contractors	Percent of Contract Dollars for Other Contractors
FY04	96.1	95.6	0.5	0.52
FY05	142.0	141.5	0.5	0.35
FY06	147.9	147.4	0.5	0.34



JPM Robotic Systems (RS)





JPM RS Programs (-FCS)



USMC



Gladiator

- 800 – 1,000 Lbs
- Lethal / Non-lethal Direct Fire
- RSTA
- NBC Detection



Assault Breaching Vehicle (ABV)

- M1 Chassis
- Mine Plow, Lane Marking
- MICLIC
- CRS Teleoperation Capability

OSD (RDT&E Funded Contracts)

- Gladiator SDD
- ABV CRS SDD
- UGV ROP SDD

Army Non-FCS



Common Robotic System (CRS)

- Teleoperation
- 80% common



T3



D7G

DEUCE



UGV ROP



RCSS Contingency

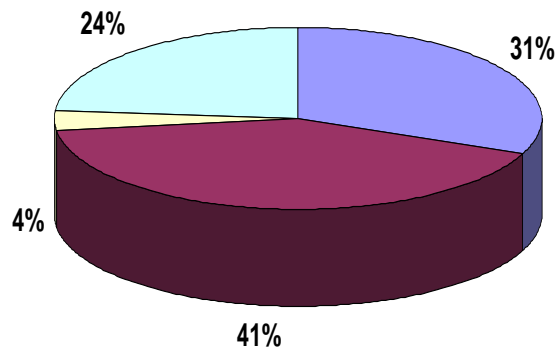
- 3,000 – 5,000 Lbs
- AP Mine Neutralization
- Wire Obstacle Breaching
- Obscurant Dispensing



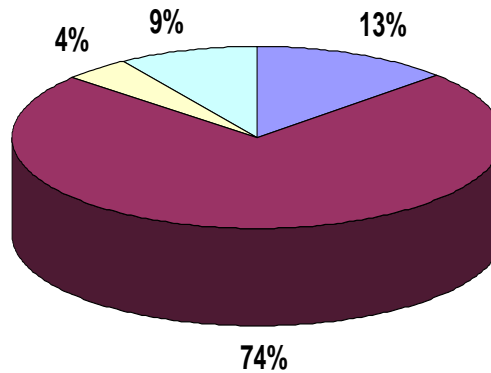
RS Contract Dollars FY 04 – FY 06



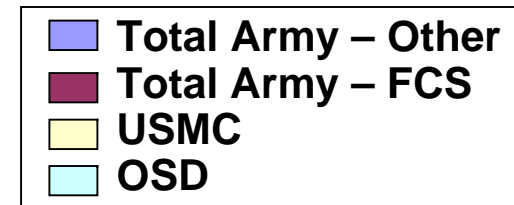
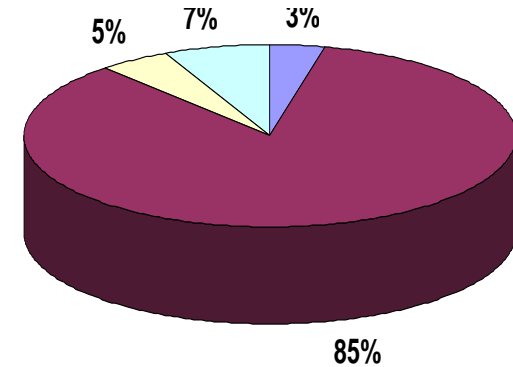
FY 04 Funding



FY 05 Funding



FY 06 Funding



Dollars in M	USMC	OSD	ARMY	ARMY- FCS Subcontractors
FY 04	1.5	9.8	13.0	17.1
FY 05	3.0	6.1	8.8	49.3
FY 06	5.8	8.4	4.2	102.6

Totals Include Both RDT&E and Procurement Dollars



PEO GCS Omnibus Contract

▲ What is it?

- **PEO GCS Omnibus Engineering Services Contract available for use by all PEO GCS PMs/APEOs in areas such as program management, support, engineering, and logistics.**

▲ Value:

- **\$153M**

▲ How Long?

- **Will award one 5-year Blanket Purchase Agreement.**
- **Award will be made on Best Value, and will be a Time and Materials Contract.**

▲ Status:

- **Award expected prior to end of year.**



PROGRAM EXECUTIVE OFFICE

★ ★

Systems Integrator
for the Armed Forces
of Today and Tomorrow

GROUND COMBAT SYSTEMS