



# MARINE CORPS SYSTEMS COMMAND PROGRAM EXECUTIVE OFFICER LAND SYSTEMS



Advanced Planning Briefing to Industry  
5-7 April 2010

## MAGTF COMMAND AND CONTROL, WEAPONS AND SENSORS DEVELOPMENT AND INTEGRATION



**Col Peter C. Reddy, USMC**  
**Director, Product Group 11**

# Advanced Planning Briefing to Industry

## PG 11 Portfolio

**63 Total Projects**  
**\$3.3B FY09-15**

**PGD: Col Pete Reddy**

**MC2I Systems Integration Team: Mr. Darrell Schultz**

**Air Defense Weapons Systems:**  
**LtCol Brock McDaniel**

- CTN (III)
- JSS (III-AF)
- MACCS
  - MACCS-S (AAP)
    - ADCP
    - BLOS
    - CDLS
    - CIS
    - DASC-AS
    - SAAWF
    - TAOM
  - MTAOM (AAP)

- GBAD-T
  - A-MANPADS (AAP)
  - A-MANPADS Incr I (AAP)
  - A-MANPADS Incr II (NA)
  - LAAD Sustainment
- Unmanned Systems**
  - MUAS (WASP) (UUNS-N)**
  - SURSS (Raven B) (IVT-N)**
  - ISR Services (UUNS)**
  - STUAS (tbd) (III-N)**
  - Video Terminals**
    - ROVER (UUNS)**
    - Video Scout (AAP)**
    - RVVT (NA)**

**MAGTF C2 Systems:**  
**Mr. Erik Gardner**

- AFATDS (II-A)**
  - BUCS**
  - MTS**
- BFSA**
  - D-DACT (IVT)**
    - C2CE**
  - BFT FoS (tbd)**
    - BFT**
    - BFT II**
    - JCR**
    - KGV-72**
    - MRC**
  - JBC-P (NA-A)**

- BTID/JCTI-G (SI-A)**
  - JCIMS (UUNS)**
  - COC**
    - COC CS II-IV (III)**
      - OEF UUNS (UUNS)**
      - MAGTF C2 COC Model G**
    - M2C2 (MRAP) (UUNS)**
  - JTCW (IVT)**
  - TLDHS (III)**
  - GCCS (IAM-J)**
  - TCO (IVT)**

**Radar Systems:**  
**Mr. Reginald Brown**

- Long Range Radar**
  - AN/TPS-59 (IVT)**
    - (V)3 Incr I**
    - (V)3 Incr II**
  - 3DELRR (SI-AF)**
  - FMS (7 Cases)**
  - FTAS**
    - AN/TPQ-46 (III)**
    - LCMR (AAP)**
    - TPS (AAP)**

**Legend**

- C2ID
- FMID
- FPID

• NA = Not Assigned

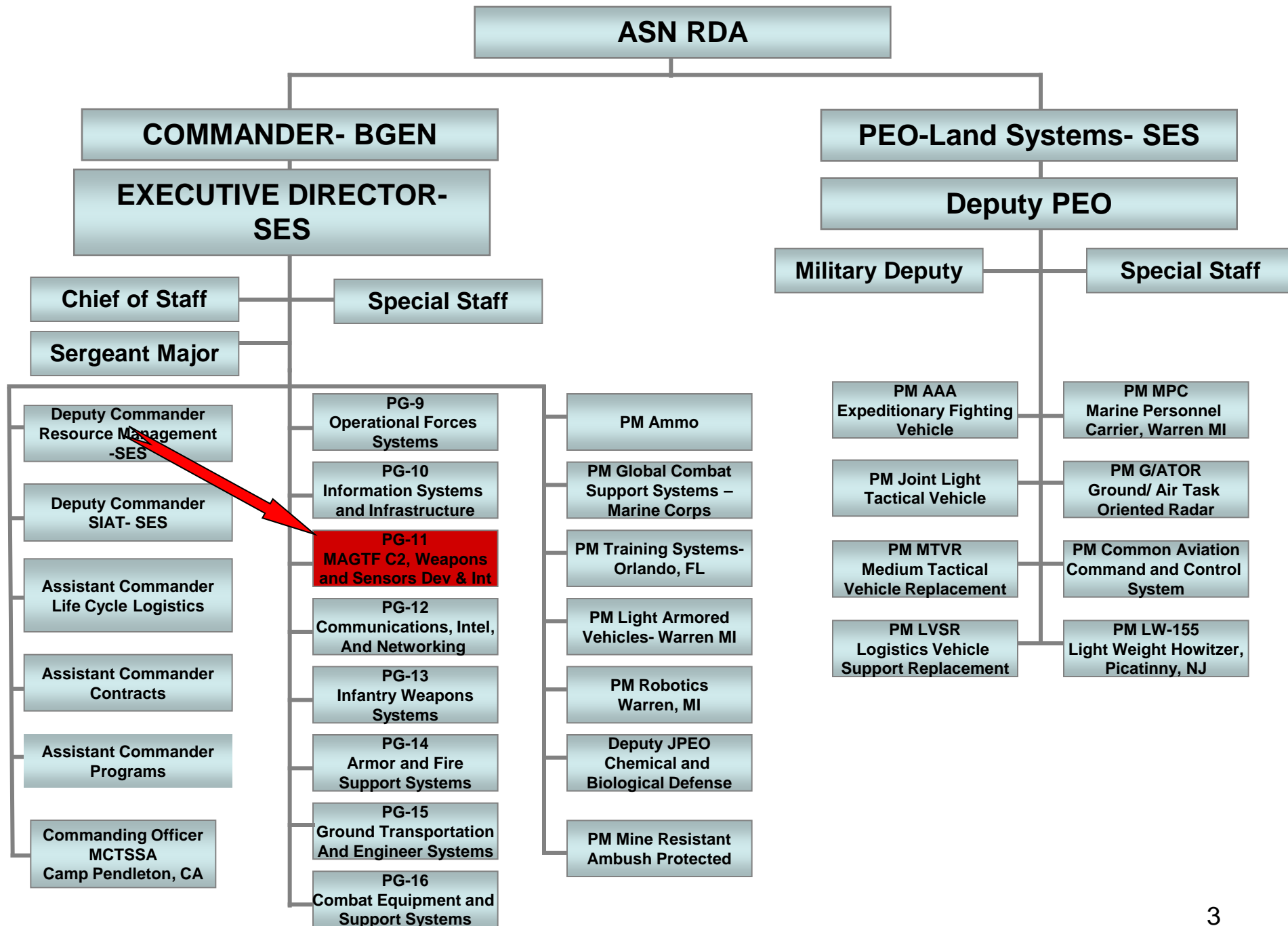
**Technology Initiatives**

- Battlefield Sensor Netting
- BMS-MC / DBMA
- COP Fusion Tools / SIE
- Corporal
- MOSS
- M2C2
- TEDS



# Advanced Planning Briefing to Industry

## MCSC Organization Line Chart



## Product Group Principals:

Product Group Director: *Col Pete Reddy*

PM Air Defense Weapons Systems/Unmanned Systems: *Lt Col Brock McDaniel*

PM MAGTF C2 Systems: *Mr. Erik Gardner*

PM Radar Systems: *Mr. Reginald Brown*

MC2I Systems Integration Team: *Mr. Darrell Schultz*











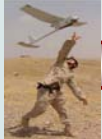




### Competency Alignment Team

- Business Manager: *Ms. Kristine Rinaldo*
- Contracts Manager: *Ms. Lee Hoyland*
- Lead Financial Manager: *Ms. Diana Wyatt*
- Lead Engineer: *Ms. Jeanette Evans-Morgis*
- Lead Logistician: *Ms. Jennifer Griggs*



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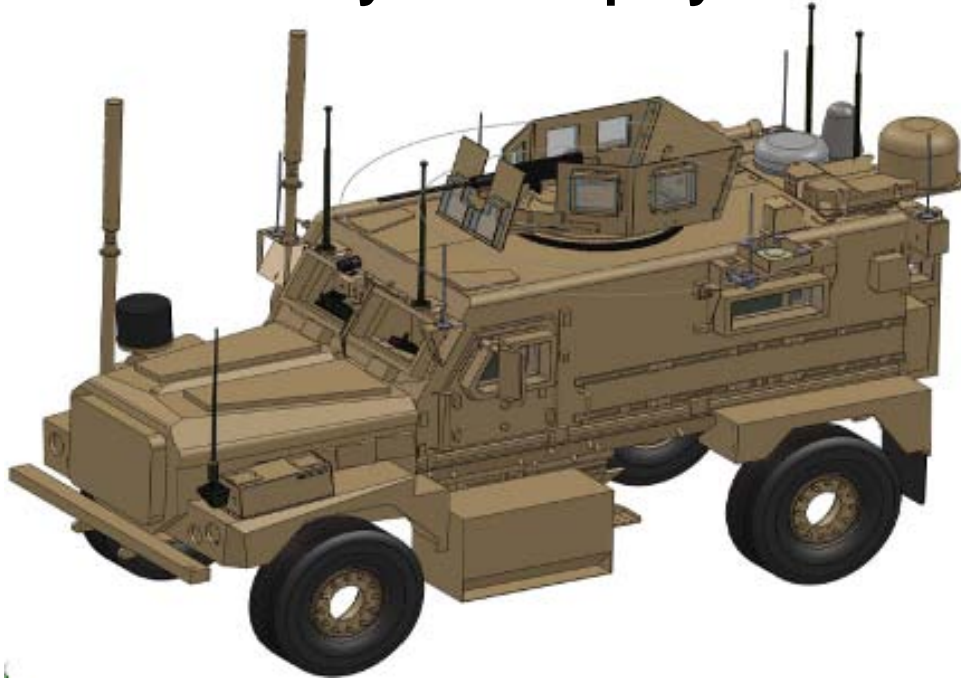
## PG 11 FYDP Investments

	FY10	FY11	FY12	FY13	FY14	FY15
<b>RDT&amp;E PMC</b>	\$17.3M \$10.1M	\$23.7M \$5.7M	\$34.1M \$11.4M	\$31.6M \$43.6M	\$8.0M \$30.6M	\$8.6M \$31.6M
<b>Radar Systems</b>	TPS-59 DPG Refresh 		Exc-Rcvr, Mode 5, Pwr Cab Refresh			
			FTAS – LCMR, TPS, TPQ-46 Fielding & Sustainment			
<b>RDT&amp;E PMC</b>	\$39.5M \$110.3M	\$45.7M \$194.3M	\$51.4M \$48.3M	\$58.9M \$103.0M	\$60.5M \$102.0M	\$49.1M \$65.2M
<b>MAGTF C2 Systems</b>	COC Model F 		COC CAPSET I		C2 Airborne	
		JTCW/GCCS/TCO			JC2	
	MRC 	BFT – JCR 	JBC-P 	JCTI 		
	<b>RDT&amp;E PMC</b>	\$37.5M \$95.9M	\$39.0M \$96.0M	\$32.4M \$58.4M	\$35.4M \$88.1M	\$19.1M \$78.4M
<b>Air Defense Weapons Systems</b>	Raven B SURSS 		Group 3 UAS 			
			A-MANPADS INC 1			
			CTN Fielding & Sustainment			



## Mobile Modular Command and Control

First System Deployed Six Months After Receipt of Funding



- High bandwidth on-the-move SATCOM (Ku-band) for extremely robust digital data and Voice-Over-IP communications
- Staff kits: Twelve CF19 Toughbook laptops with full COC tactical software load; connected to M2C2 vehicle and each other by secure wireless LAN (SECNET 11), minimum 500 meter range; TOCNET intercom provides full access to all radios and freqs.
- Full suite of tactical radios: PRC-117F, EPLRS, PRC-150, PRC-152
- Three network enclaves: SIPR, NIPR and Coalition/Mission Secret
- The M2C2 Cat 1 Cougar vehicle retains Blue Force Tracker and counter-IED in its suite of equipment.
- Twelve months of sustainment in-theater including field engineers, spare and repair parts, training, help desk, documentation.
- Systems two and three will be delivered to theater in August 2010.



## Mobile Tactical Air Operations Module AN/TSQ-269

- **Description:** The MTAOM provides an expeditionary transportable Air Command and Control system. The MTAOM is based on the TAOM equipment. It is housed in a S-788/G shelter mounted on a M1152 A1 High Mobility Multipurpose Wheeled Vehicle (HMMWV). Power and ECU are provided by the Integrated Trailer ECU and Generator (ITEG) system. When connected with radar and the AN/MRQ-12(V)4 Communication Interface System the MTAOM provides the capabilities to operate as an Early Warning/Control center.
- **Tactical Data Link Capabilities:**
  - TDL A
  - TDL B
  - TDL J
  - ATDL-1
  - NATO Link 1
  - JREAP A
  - JREAP B
  - JREAP C
- **Communication Assets:**
  - 2 AN/VRC-103 radios
  - 1 AN/GRC-171(V)B4 radio
  - 1 AN/USQ-140(V)11 MIDS radio
  - 1 1000Kw HF radio
- **Fielding:** Starts 4<sup>th</sup> quarter FY10



## Family of Target Acquisition Systems

- **AN/TPQ-46 Firefinder Radar**
  - Upgraded Armored Vehicles (M1152A1 w B2 and M1151A1 w B1)
  - Procure and field additional systems to meet CMC 202k AAO
  - Procure and field additional systems to meet Reset the Force Initiative
  - EPLRS Radio capability (Dual digital network)
  - Procured Maintenance Tactical Mobile Forward 7187 to enhance RAM
- **AN/TPQ-48 Lightweight Counter Mortar Radar**
  - Plan, Provision, and Source Equipment Density Lists (EDL) for OIF and OEF (32 systems)
  - Pursuing V2 upgrades that enhance performance
  - Provided in-country and on site training to deploying units
- **AN/TSQ-267 Target Processing Set**
  - Standardize Target Processing Center (TPC) equipment layout
  - Provides a platform for the standardization of TPC Tactics, Techniques, and Procedures (TTPs)





***Many Challenges Remain:***

- Net-centricity, the Service-Oriented Environment and the Transition to JC2
- USMC / USA JROC-directed Convergence
- Combat ID
- Integrating New C2 Technologies to Improve Existing Capabilities
- Footprint Reduction
- Green Initiatives
- Sustaining Today's Systems Until Tomorrow's Systems Arrive
- Reducing Time to Fuse Multi-level Data at and from the Aviation Combat Element (ACE), Ground Combat Element (GCE), Command Element (CE), and Logistics Combat Element (LCE)



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