



**MARINE CORPS SYSTEMS COMMAND**

*Equipping our MARINES*

# PORTFOLIO MANAGER COMMAND ELEMENT SYSTEMS

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**Col Ross A. Monta**

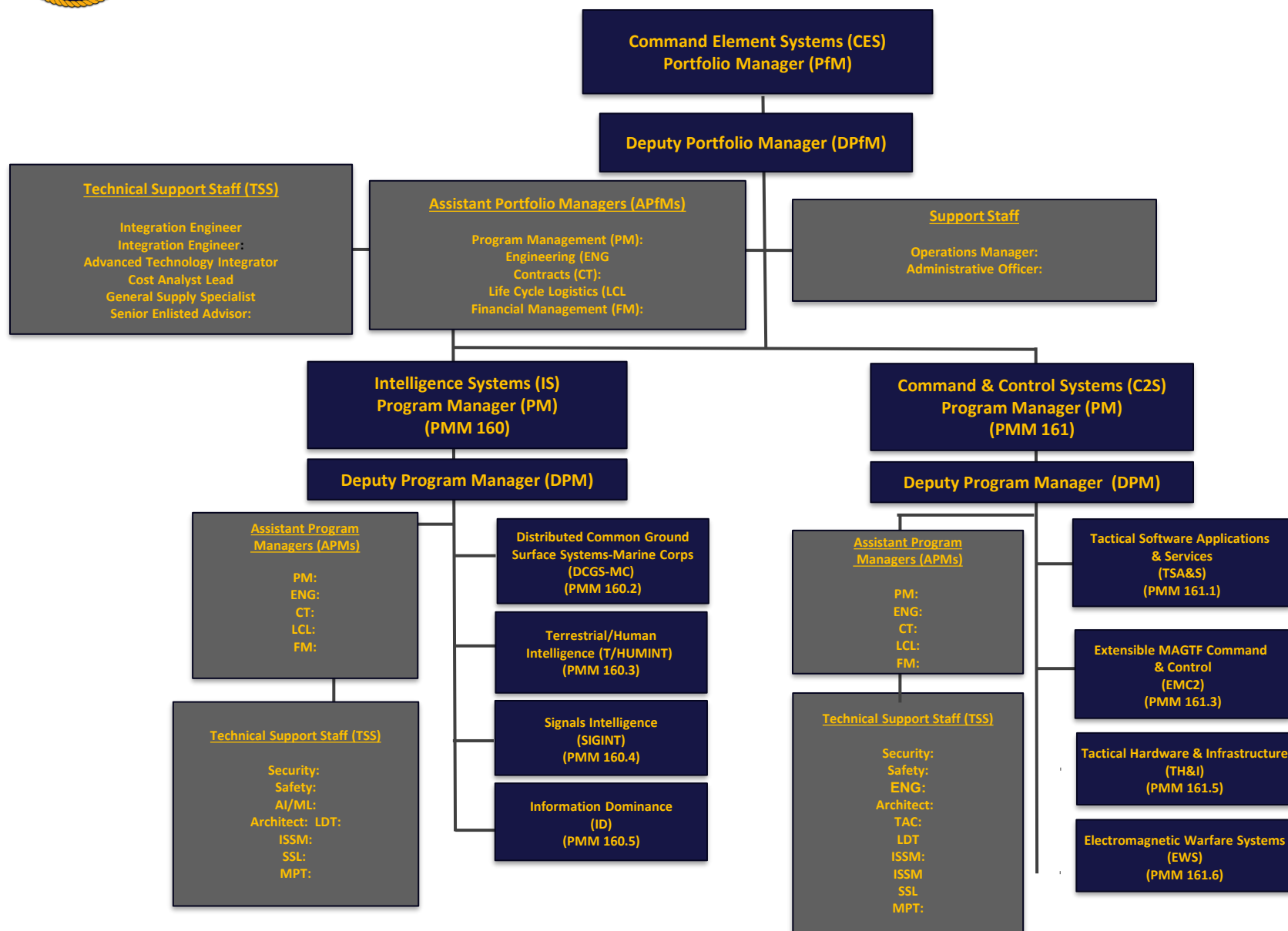




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## Organization Chart

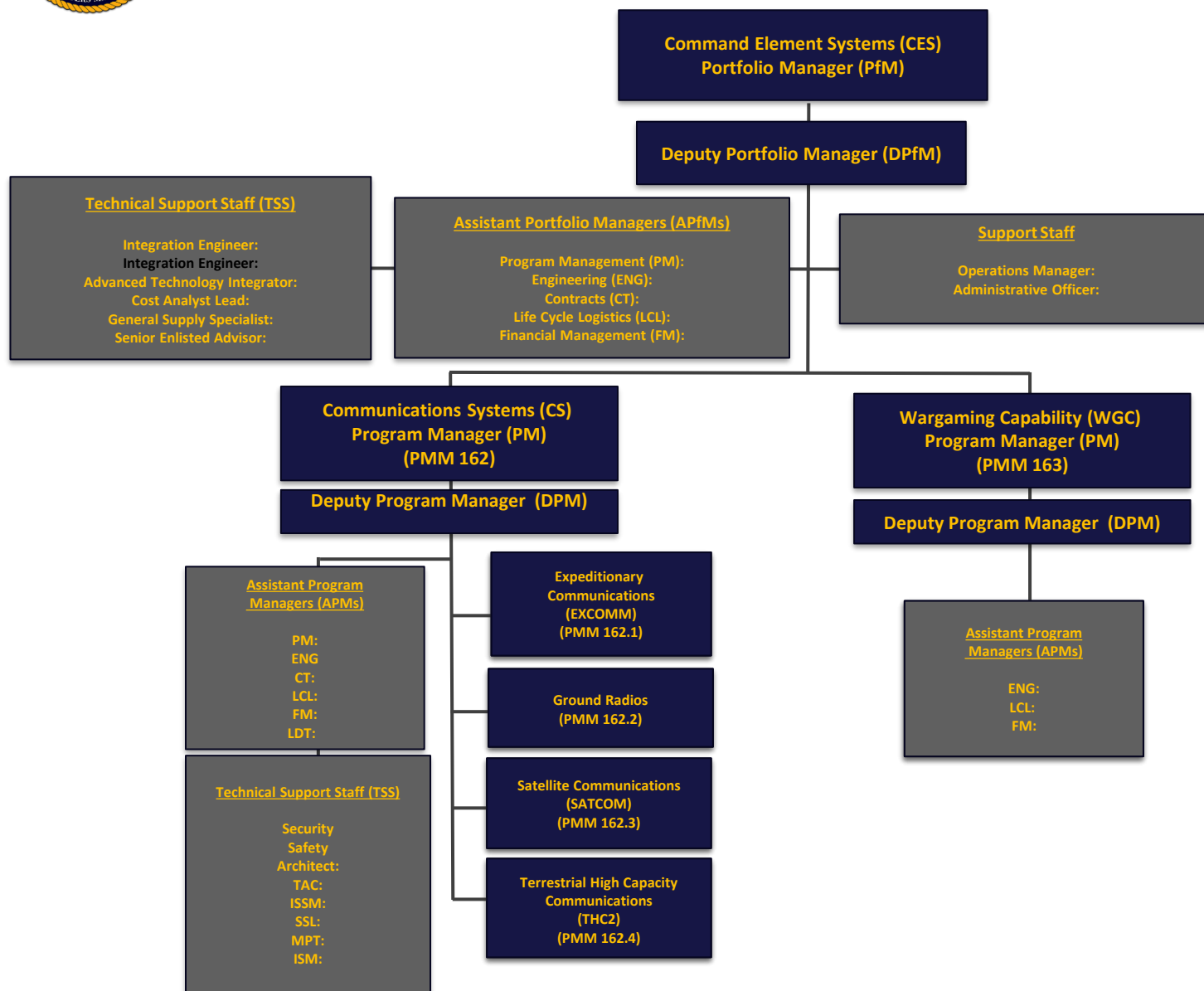




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## CES Organization (cont'd)

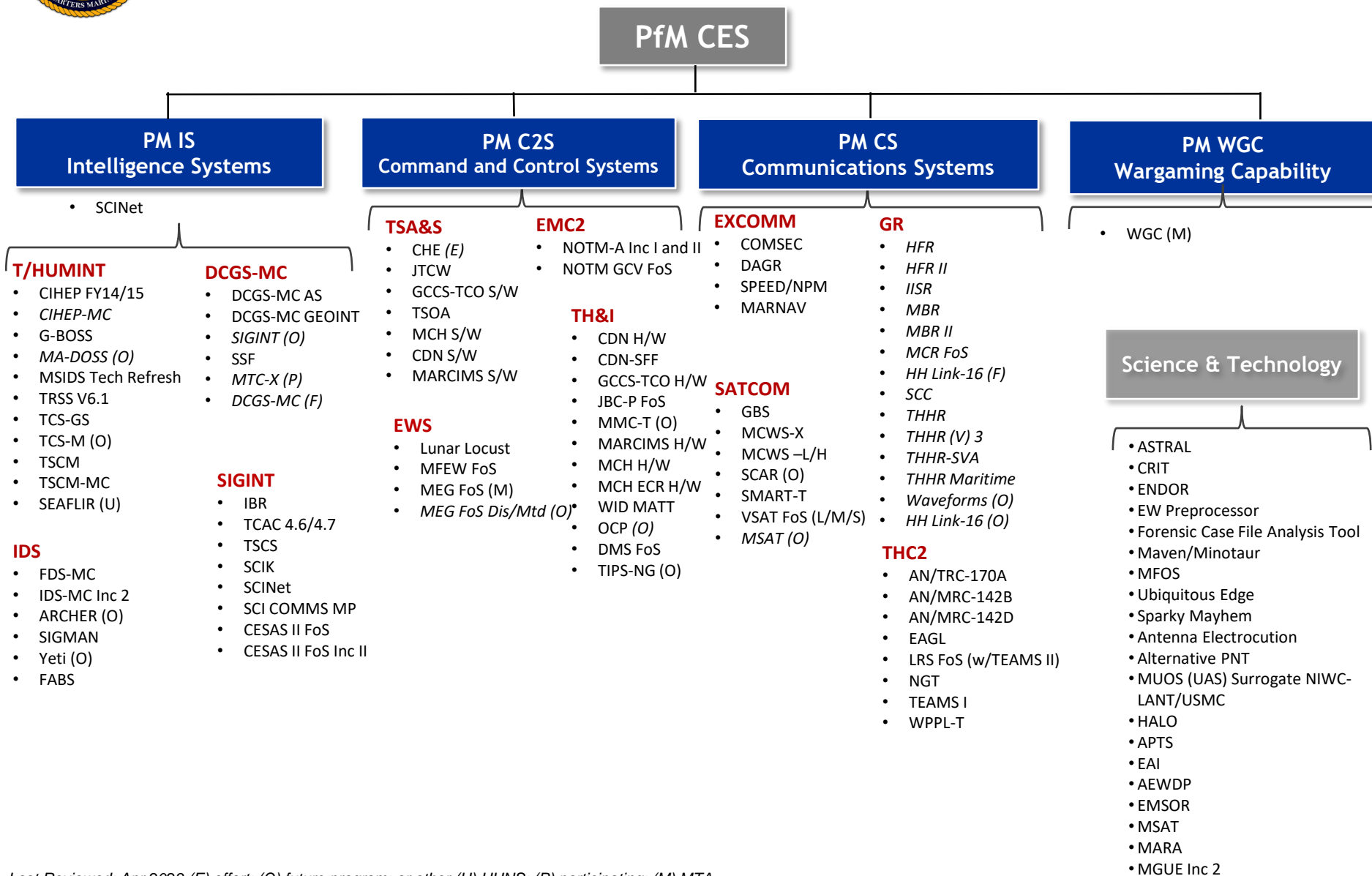




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## PfM CES Programs



Last Reviewed: Apr 2023 (E) effort; (O) future program; or other (U) UUNS; (P) participating; (M) MTA



## **Terrestrial and Human Intelligence (T/HUMINT) Areas Where Industry Can Help**

- ▶ **Mobile-All Domain Observation & Sensing System (MA-DOSS) seeks GOTS partners to provide subsystems in the following areas:**
  - ▶ Robotic/autonomous UGVs (4-wheeler ATV to Polaris sized)
  - ▶ Multi-spectral EO/IR, LIDAR, air & surface search RADAR
  - ▶ UGV deployable sUAS with sensors
  - ▶ AI-powered detection, classification, identification software
  - ▶ Assured PNT/Inertial Navigation
  - ▶ Multi-band wideband radio data exchange & remote control
  - ▶ Data ecosystem for interoperability with C2 systems, JADC2
- ▶ **Terrestrial Collection Systems seeks GOTS partners to provide subsystems in the following areas:**
  - ▶ Long duration multi-modality sensors including EO/IR, acoustic, seismic, magnetic, RADAR, LIDAR, radio frequency
  - ▶ Assured PNT
  - ▶ AI-powered detection, classification, identification software
  - ▶ Communication and radio relay of sensor data, monitor & control
  - ▶ Data ecosystem for interoperability with C2 systems, JADC2



## **Distributed Common Ground/Surface System Marine Corps (DCGS-MC) Areas Where Industry Can Help**

### ▶ **Cloud Transition:**

- Common Data Fabric
- Server Virtualization

### ▶ **Information Superiority using AI/ML:**

- Developing and improving algorithms
- Auto identification & extraction of geospatial features in aerial and satellite imagery
- Auto generate sensor report generation and data dissemination
- Improve spectrum situation awareness and ability to rapidly identify and defeat threats

### ▶ **Digital Transformation:**

- Minotaur Family of Systems Integration
- Joint All-Domain Command & Control (JADC2) linking development (weapons and sensors)

### ▶ **Standardization:**

- Common Hosting Environment
- Modular Open Suite of Standards
- Modular Open Systems Architecture

### ▶ **SATCOM Rebroadcast Full Motion Video Feed**



## Information Dominance (INFO DOM) Areas Where Industry Can Help

- ▶ **IDOPS: Conducting Identity Operations in a denied, degraded, intermittent, and low-bandwidth (DDIL) environment**
- ▶ **Aggregation and analysis of identity data in DDIL environments to include:**
  - AI/ML algorithms to provide link analysis and rudimentary sense making of the human domain
  - Multi-sensor integration
- ▶ **Passive collection of biometric signatures**
- ▶ **Reduce SWaP of biometric and forensic collection and analysis devices**
- ▶ **Advanced Cellular, and Document and Media Exploitation Tools (CELLEX/DOMEX)**
- ▶ **FABS: Industry help with ISDB-T and DTMB waveform along with 3G to 5G technology.**
- ▶ **SIGMAN: identifying and disseminating capabilities of Software Defined Radios capable of monitoring the RF spectrum, particularly from 1.6MHz to 30GHz (SIGMAN INC I Objective Requirements).**



## Areas Where Industry Can Help

- ▶ **Machine Learning technologies supporting Radio Frequency (RF) identification**
- ▶ **Over the Horizon (OTH) terrestrial based RF detection and identification**
- ▶ **Low Size, Weight, and Power Direction Finding Antennas operating across the full RF spectrum**
- ▶ **Miniaturized Tuners/Radios/Processors that support Digitization and Processing at the Sensor**
- ▶ **Miniaturized High Efficiency Broadband Power Amplifiers**





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## PMO Opportunities



### DCGS-MC Opportunities

- Distributed Common Ground/Surface System-Marine Corps (DCGS-MC)
  - Geospatial Intelligence (GEOINT)
  - All Source Intelligence (All Source)
  - Family of Integrated Targeting and Exploitation (FITE)

Team	Title	Planned RFP
DCGS-MC GEOINT	SATCOM Rebroadcast of FMV Feed	1stQtrFY23
DCGS-MC All Source	N/A	N/A
FITE	N/A	N/A

### PM INFODOM Opportunities

Title	Planned RFP
USMC Identity Operations Services (NIWC Atlantic / SeaPort-NxGen)	4QFY23



## Areas Where Industry Can Help

- ▶ **A standard C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) solution to support:**
  - Tactical Imagery Production System Next Generation (TIPS NG)
  - Networking-on-the-Move Ground Combat Vehicle (NOTM GCV): Utility Light Tactical Vehicle (ULTV) / Amphibious Combat Vehicle (ACV) / Armored Reconnaissance Vehicle (ARV)
  - Combat Data Network (CDN) and Operational Command Post (OCP)
- ▶ **End User Devices (Tactical)**
  - Tactical tablets and cell phones to integrate within multiple programs of record
- ▶ **Secure Wireless solutions**
  - Commercial Solutions for Classified
    - *Multi Site and Tactical architectures*
    - *NSA Approved Architectures and Equipment*
  - Light Fidelity (LIFI)
- ▶ **Cross Domain Solutions**
  - Transfer and Access
- ▶ **Cellular Connectivity**
  - On-the-Move, At-the-Halt, Local Host Nation supportable
- ▶ **Application Hosting and Development**
  - Containers and Virtual Machines



## PM C2S Opportunities

Title	Planned RFP
End User Devices (Tactical)	FY24
Combat Data Network Server Refresh	FY24
Radio over Internet Protocol	FY24
Secure Wireless and Commercial Solutions for Classified	FY24
Cross Domain Solutions	FY24 & FY25
Cellular Access and Connectivity	FY24 & FY25



## Areas Where Industry Can Help

- ▶ **Modular and Scalable communication system designs**
  - Systems that are capable of incremental upgrades at the component level from across industry
  - CMOSS/MOSA form factors for Modular Advanced Radio Architecture
- ▶ **Systems that enable pushing maintenance capabilities to the forward edge**
  - Including non-standard training capabilities
- ▶ **Low Probability of Intercept (LPI) / Low Probability of Detection (LPD) / Anti-Jam (AJ) communications**
- ▶ **Naval interoperability**
  - Systems compatible with future naval systems
  - Systems that can be operated from amphibious ships
- ▶ **Multi-orbit SATCOM Terminal Array agnostic of the service (LEO, MEO, HEO, GEO)**



## PM Communications Systems Opportunities

Title	Planned RFP
Mounted Assured Resilient Navigation (MARNV) Block 2	3QFY24



## **Areas Where Industry Can Help**

- ▶ **Conceptual Model Development to integrate into the Wargaming Solution (including documentation to support the data used to develop the models)**

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Title	Planned RFP/RFI
Conceptual Model Development supporting USMC Wargaming	RFI – est. 2QFY24 RFP – TBD (est. 3QFY24)



# QUESTIONS?

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