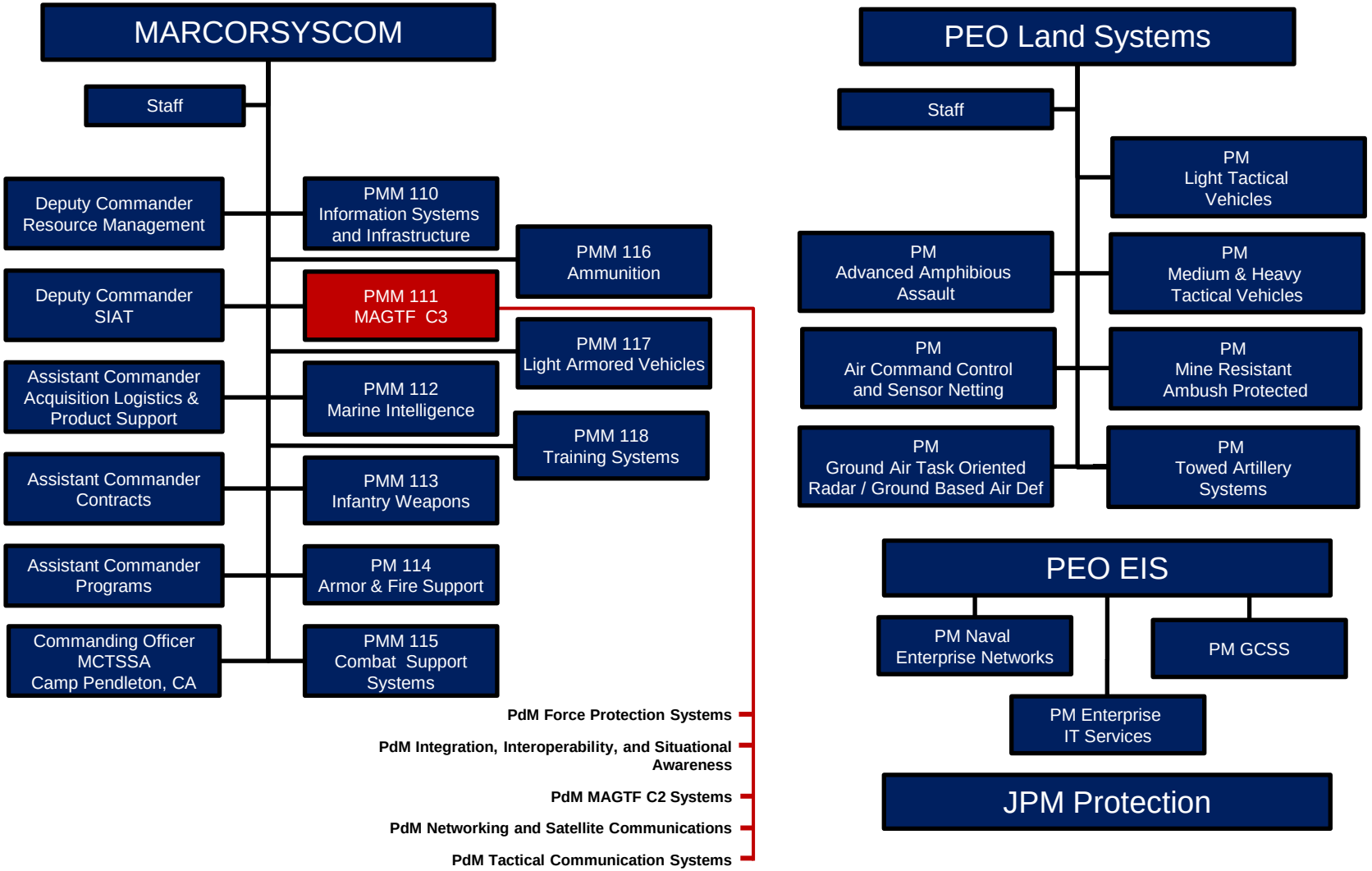
Program Manager MAGTF Command, Control, Communications (MC3)

Planning Briefing to Industry
Modern Day Marine
Quantico, VA



MC3 Points of Contact

Program Manager	Col Brock McDaniel
Deputy Program Manager	Mr. James Westerholm
Operations Manager	Mr. Brian Havener

Assistant Program Managers

Program Management	Mr. John Maurer
Life Cycle Logistics	Mr. Rich Sessions
Contracts Management	Ms. Robin Kuschel
Financial Management	Ms. Marjorie Schmitt
Engineering	Mr. Jeff Smith

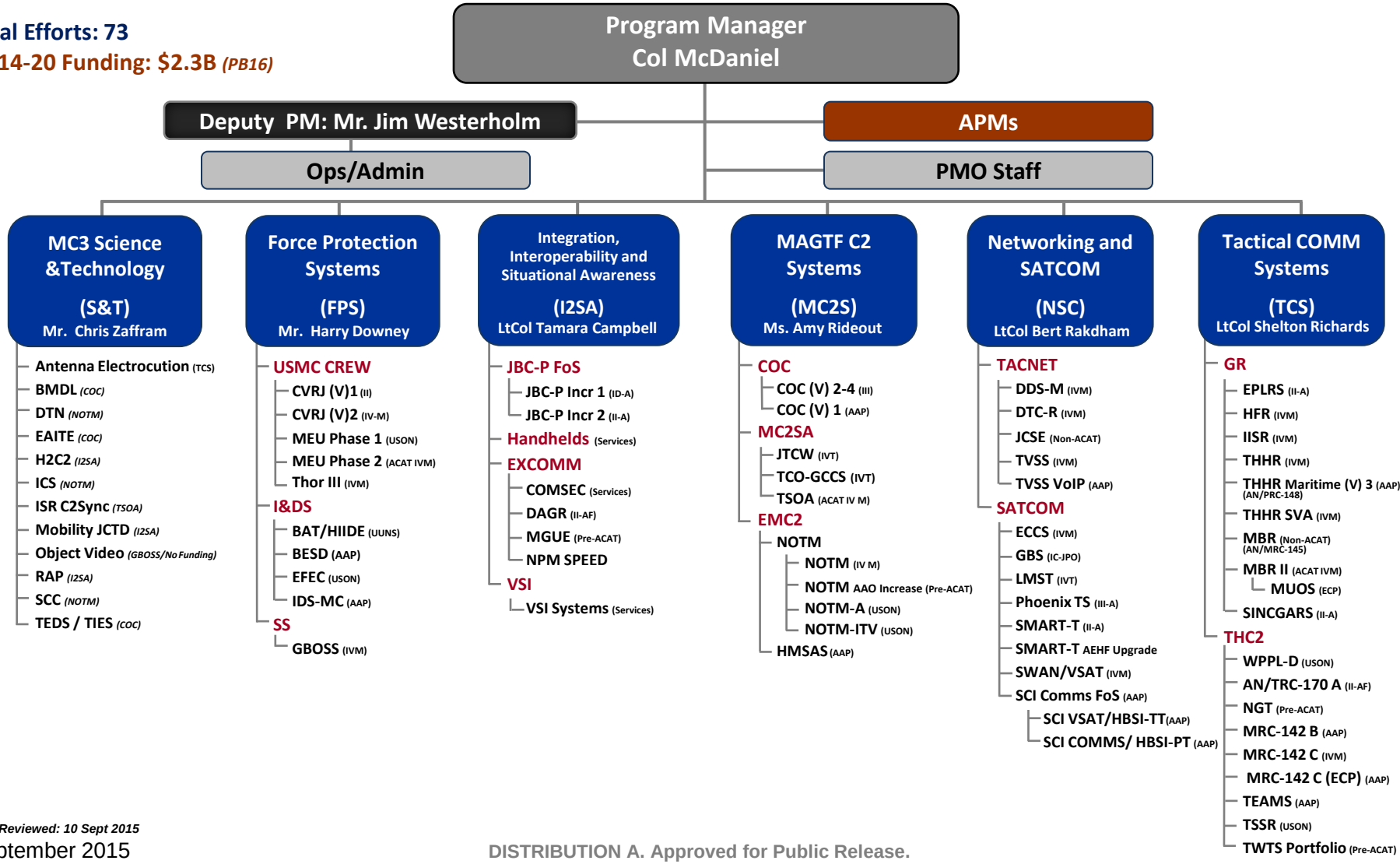
Product Managers

PdM Force Protection	Mr. Harry Downey
PdM Integration, Interoperability, and Situational Awareness	LtCol Tamara Campbell
PdM MAGTF C2 Systems	Ms. Amy Rideout
PdM Networking and Satellite Communications	LtCol Bert Rakdham
PdM Tactical Communication Systems	LtCol Shelton Richards
Science and Technology Lead	Mr. Chris Zaffram

Provide and sustain command and control capabilities to the MAGTF.

PMM-111 (MC3) Organization

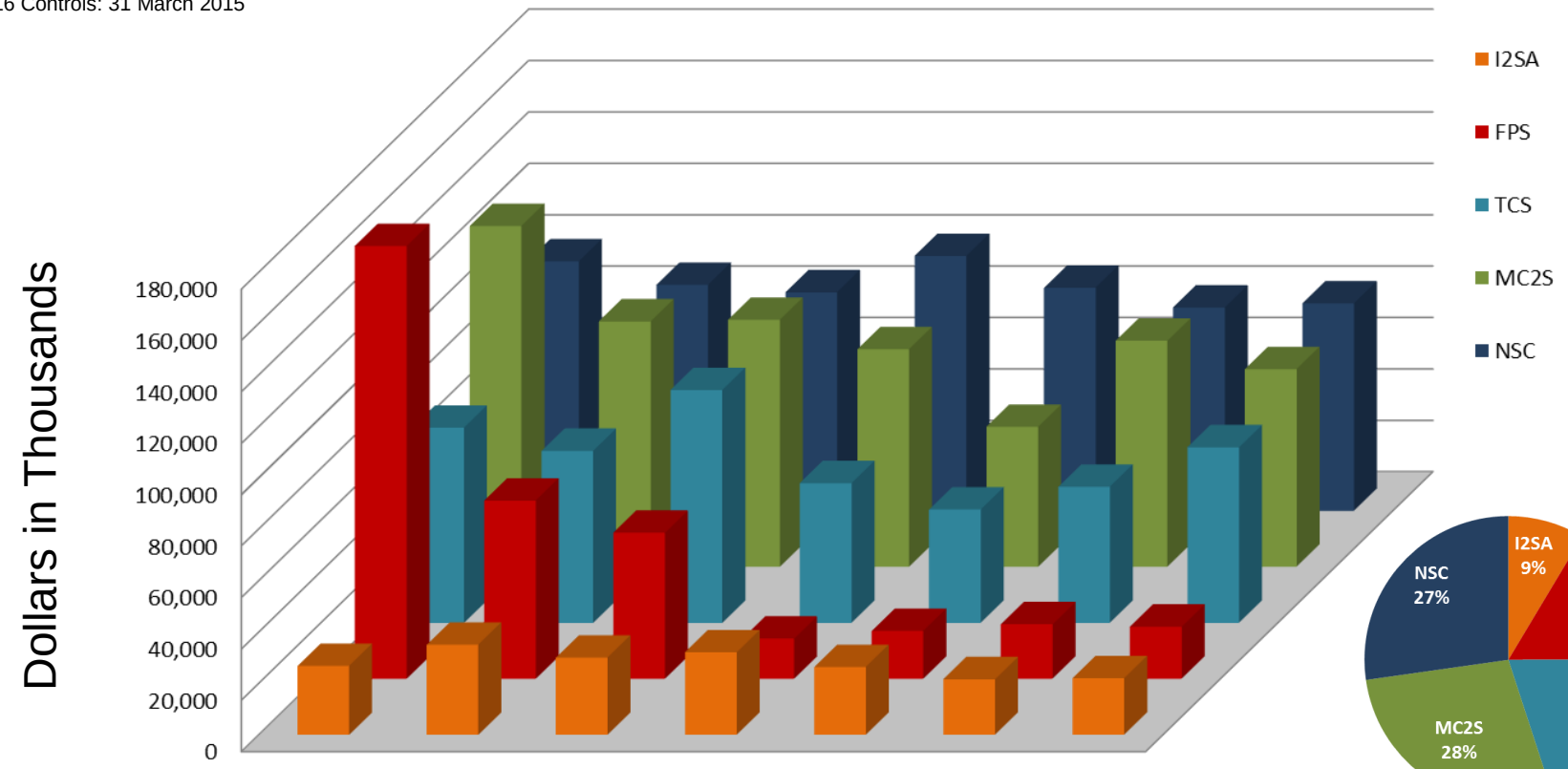
Total Efforts: 73
FY 14-20 Funding: $2.3B *(PB16)*



Last Reviewed: 10 Sept 2015

MC3 Financial Resources PM ($000)

PB16 Controls: 31 March 2015



	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
I2SA	26,820	35,791	30,069	32,076	26,399	21,606	21,971	**194,732**
FPS	164,192	70,485	56,846	15,638	18,605	21,239	20,306	**367,311**
TCS	75,928	68,232	90,591	54,359	44,135	52,969	68,307	**454,521**
MC2S	132,611	97,529	96,088	84,651	54,515	88,039	76,946	**630,379**
NSC	97,158	88,544	85,042	99,205	86,781	79,109	80,759	**616,598**
Total	496,709	360,581	358,636	285,929	230,435	262,962	268,289	**2,263,541**

Baseline funding <u>including</u> OCO funds.

20150331: Data Source-PB16 Controls-Revised. FY15 OMMC source is DFM. All data reflects MC3 current portfolio effective 1 October 2014.

MC3 Expeditionary Force 21 Guiding Tenets

"Expeditionary Force 21 aligns capability development with strategic guidance"

An Expeditionary Force in Readiness…..requires a forward posture with the right capabilities to deploy, employ, and sustain our forces in expeditionary and austere environments.

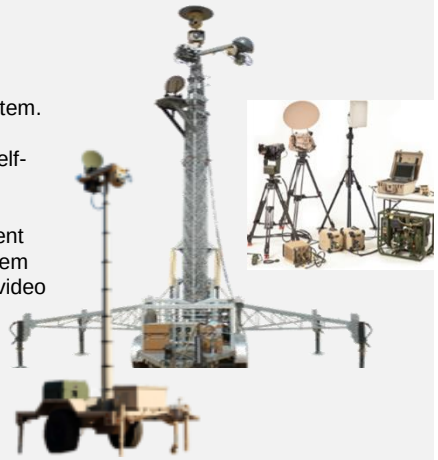
Force Protection Systems (PdM FPS)

PdM FPS MISSION

PdM FPS leads the Marine Corps' efforts in the research, development, acquisition, and sustainment of Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (CREW) Systems, Surveillance Systems, and Identification and Detection Systems.

Surveillance Systems

G-BOSS
Ground-Based Operational Surveillance System. Expeditionary, ground-based, self-contained, multi-spectral sensor-oriented, persistent surveillance system utilizing a fused video and sensor data display.



Identification and Detection Systems

BESD
Biometric Enrollment and Screening Device. Provides a handheld biometric collection device for facial, fingerprint and iris images along with biographical information.

IDS-MC
Identity Dominance System-Marine Corps. Provides the ability to collect, match, store and share biometric data to identify persons of interest.

EFEC
Expeditionary Forensics Exploitation Capability-Forensic technical exploitation capabilities required by the Marine Corps OPFOR in Afghanistan and the MEUs.

USMC CREW Systems

Counter Radio-Controlled Improvised Explosive Device Electronic Warfare

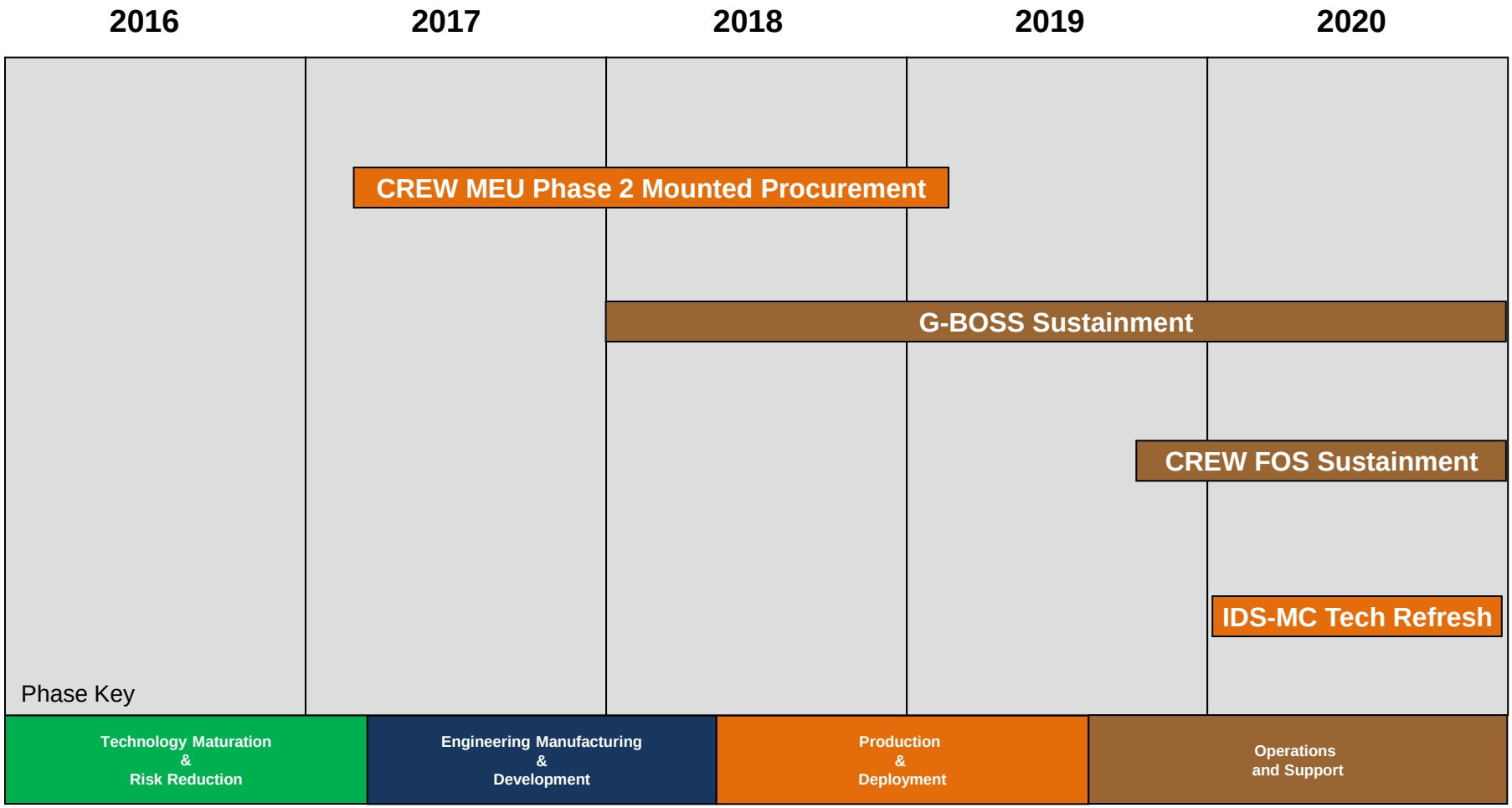
CVRJ (V)1 and CVRJ (V)2
CREW Vehicle Receiver Jammer. A vehicle-mounted active and reactive electronic countermeasure.

THOR III
THOR III: Man-portable Counter RCIED solution for selected threats.

CREW MEU Phase 1
CREW Marine Expeditionary Unit Phase 1 Modi-The system is a non-developmental, modular, man-portable RCIED jammer. The Modi system is a single box solution.

CREW MEU Phase 2
CREW Marine Expeditionary Unit Phase 2 -The system is a non-developmental, modular, man-portable RCIED jammer. The Modi II system is a single box solution.

PdM FPS Business Opportunities



CREW FOS – Counter Radio-Controlled Improvised Explosive Device Electronic Warfare Family of Systems G-BOSS – Ground-Based Operational Surveillance System
IDS-MC – Identity Dominance System-Marine Corps C

PdM FPS Future Business Opportunities

Title	Funding	Planned RFP
CREW MEU Phase 2 Mounted Procurement	PMC	4Q FY16
G-BOSS Sustainment	OMMC	4Q FY17
CREW Family of Systems Sustainment	OMMC	2Q FY19
IDS-MC Tech Refresh	PMC	4Q FY19

Integration, Interoperability, and Situational Awareness (PdM I2SA)

PdM I2SA MISSION

Provide, integrate and sustain C2 and situational awareness capabilities to enhance MAGTF Operations.

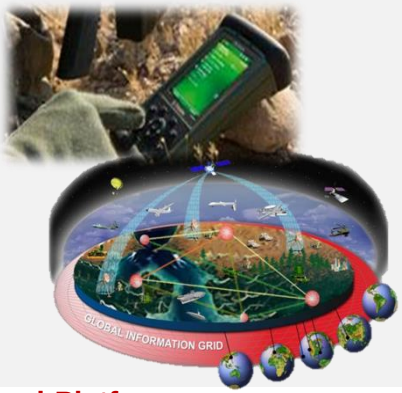
Vehicle Systems Integration

VSI-Technologies that provide method of organizing to support C3 integration requirements for the vehicle platforms. Facilitates the IPPD process approach to Systems Integration.

Handhelds

Handheld Devices

Technologies that enable Assault Forces to conduct collaborative planning when enroute to & once in objective area.



Mounted System

TOC Kit

DAGR

Defense Advanced Global Positioning System Receiver

Expeditionary Common Systems

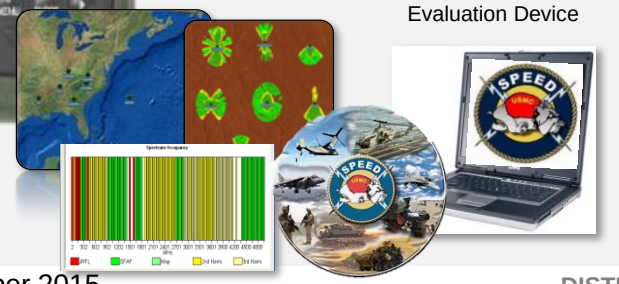
Technologies that provide secure communications, secure position, navigation, and timing information, and communications planning for the Operating Forces. Systems developed and sustained include NPM/SPEED, COMSEC, and DAGR.

COMSEC

Communications Security Cables-Services

SPEED

Systems Planning Engineering and Evaluation Device



Joint Battle Command-Platform Family of Systems (JPC-P)

JBC-P FoS

Joint Battle Command - Platform (JBC-P) Family of Systems (FoS) Increment I (Inc I) is the primary battlefield Command and Control (C2) Situational Awareness (SA) system that provides tactical input/output battlefield digitized Position Location Information (PLI) and SA at the company and vehicle levels. It is the successor program to the UUNS Blue Force Tracker/FBCB2 Software which includes an in-line encryption device.

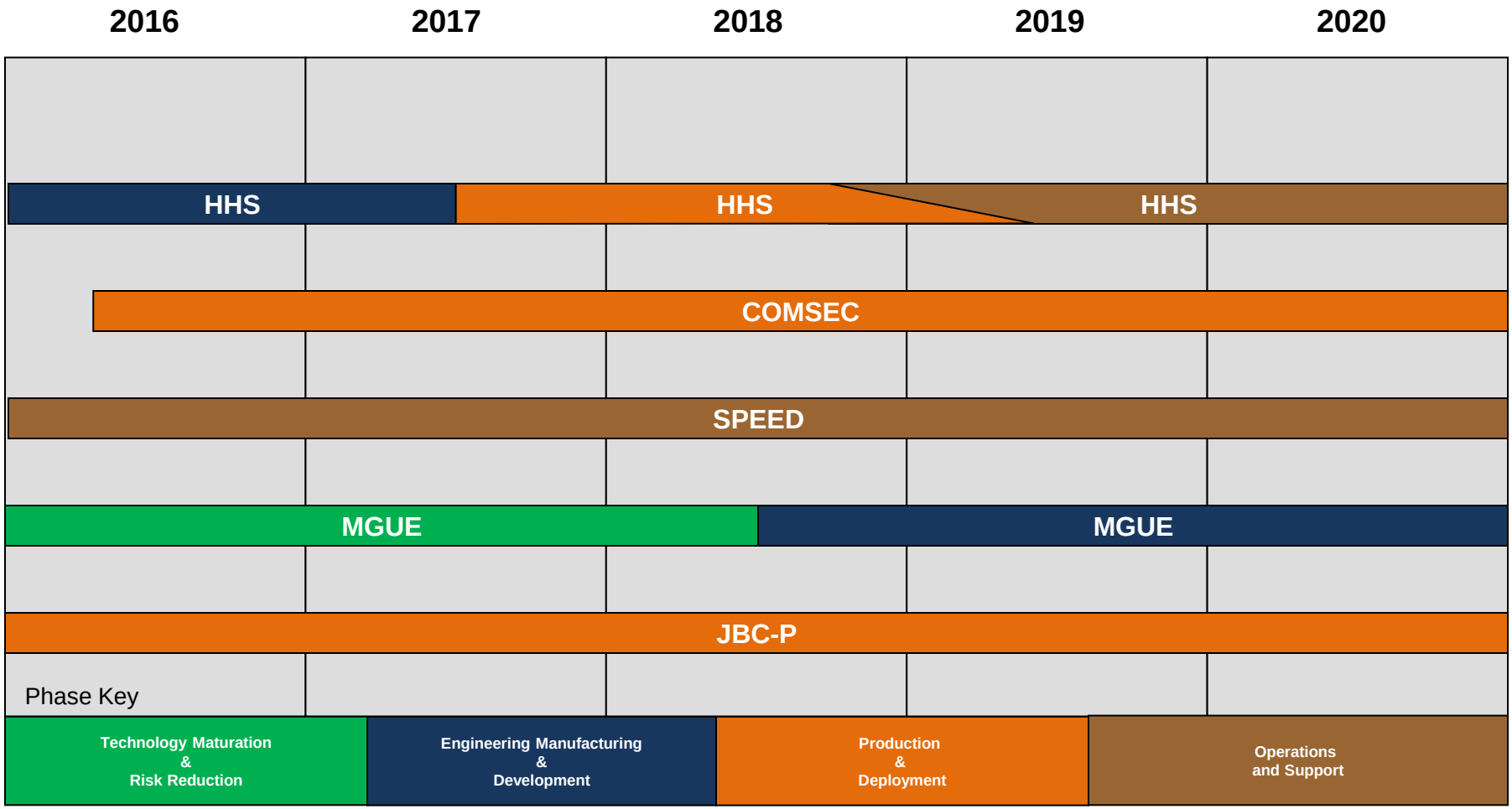
Increment II consists of JBC-P software, a stand-alone dismounted computing platform (handheld or end user device), and improvements to dismountable variants in future refreshes.

KGV-72 PIED

BFT 2 Transceiver

Dismounted EUD

PdM I2SA Business Opportunities



HHS – Hand Held Systems COMSEC – Communications Security SPEED – Systems Planning Engineering & Evaluation Device
MGUE – Military Global Positioning System User Equipment JBC-P – Joint Battle Command - Platform

PdM I2SA Future Business Opportunities

Title	Funding	Planned RFP
HHS Research and Development	RDT&E	1Q FY16
MGUE Research and Development	RDT&E	1Q FY16
HHS Hardware Procurement	PMC	2Q FY17
JBC-P Hardware Refresh Procurement	PMC	1Q FY18
MGUE Procurement	PMC	1Q FY18
COMSEC Crypto Modernization Procurement	PMC	Various
SPEED Enhancements, Integration, & Training	RDT&E & OMMC	Various

(MAGTF) Command And Control (C2) Systems (PdM MC2S)

PdM MC2S MISSION

Manage a diverse portfolio of C2 programs and technology initiatives, to deliver to the Marine warfighter and end-to-end, fully integrated, cross functional set of MAGTF Command & Control (C2) Capabilities.

Combat Operations Center

The Combat Operations Center (COC) is a deployable, self-contained, centralized facility that provides shared command and control / situational awareness (C2/SA) functionalities in a collaborative environment. COC hosted applications provide Blue and Red force tracking, increased situational awareness, information sharing, and enhanced decision making.

COC (V) 1 and COC (V) 2-4

MAGTF C2 Systems and Applications

MAGTF C2 Systems and Applications (MC2SA) (GCCS-TCO/JTCW/TSOA) provides the common, modular and scalable collaborative planning execution, and assessment software for all elements and echelons of the MAGTF.

GCCS-TCO

Global Command and Control System-Tactical Combat Operations

TSOA

Tactical Service Oriented Architecture

JTCW

Joint Tactical COP Workstation

Extensible MAGTF C2 Systems

The transitioning of S&T projects such as the Mobile Modular Command & Control (M2C2) system and the Network-On-The-Move (NOTM), and Hatch Mounted Satellite Antenna System (HMSAS) capability into programs, satisfies OPFOR Requirements and ensures warfighters are equipped with cutting edge technology.

HMSAS

Hatch Mounted SATCOM Antenna System

M2C2-COBRA 3

HMMWV

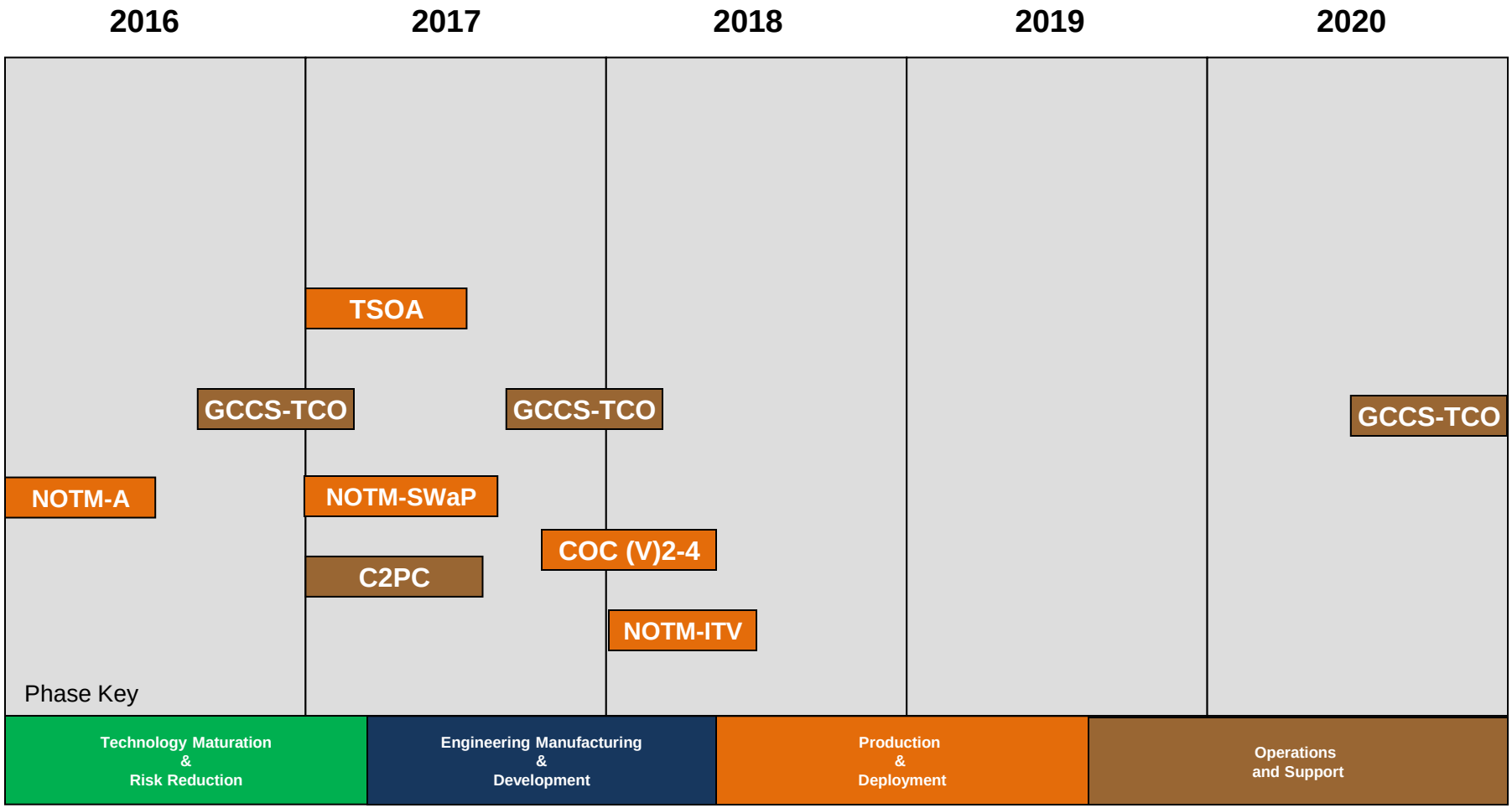
NOTM

Network on the Move

AAV

M-ATV

PdM MC2S Business Opportunities



C2PC – Command & Control Personal Computer COC – Combat Operations Center TSOA – Tactical Service Oriented Architecture
GCCS-TCO - Global Command & Control System – Tactical Combat Operations NOTM - Network On The Move (SWaP, ITV, A)

PdM MC2S Future Business Opportunities

Title	Funding	Planned RFP
Network On The Move – (HMSAS) Airborne Satcom - Must be KC-130J flight certified (2)	PMC	1Q FY16
GCCS-TCO MCHS Server refresh	PMC	4Q FY16
Command & Control Personal Computer (C2PC) (SW development/support)	RDTE/OMMC	1Q FY17
Network On The Move – Size, Weight, and Power (NOTM-SWaP reduction HW) milspec, aircooled, lightweight servers, routers	PMC	1Q FY17
Tactical Services Oriented Architecture (TSOA) (SW development/support)	RDTE/OMMC	1Q FY17
Combat Operations Center (COC) Block 1 Technical Refresh	PMC/OMMC	4Q FY17
GCCS-TCO MCHS Client refresh	PMC	4Q FY17
Network On The Move – Internal Transportable Vehicle (NOTM-ITV) SATCOM systems (5)	PMC	1Q FY18
GCCS-TCO MCHS Server & Client refresh	PMC	3Q FY20

Networking And Satellite Communications (PdM NSC)

PdM NSC MISSION

PdM NSC leads the Marine Corps' effort in research and development, acquisition and sustainment of tactical networking and switching equipment; wireless broadband, and satellite ground communication systems.

Tactical Network Systems

Tactical networking, tactical switching, and technical control functions to our Operating Forces. Systems being developed and sustained include TDN DDS-M, DTC-R, TVSS, and TVSS VoIP.

DTC-R
Digital Technical Control (DTC) - Refresh

TVSS
Tactical Voice Switching System

DDS-M
Tactical Data Network Data Distribution System - Modular

VSAT
Very Small Aperture Terminal

VSAT Large

VSAT Medium *VSAT Small*

Satellite Communication Systems

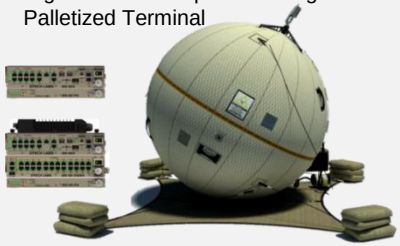
EHF and SHF wideband SATCOM systems providing long-haul communications to higher headquarters for reach back into the GIG and intra-MAGTF communications down to the Battalion level. Systems include VSAT, ECCS, LMST, Phoenix, SMART-T, GBS, and HBSI-PT.

GBS
Global Broadcast Service

LMST/Phoenix
Lightweight Multi-Band Satellite Terminal

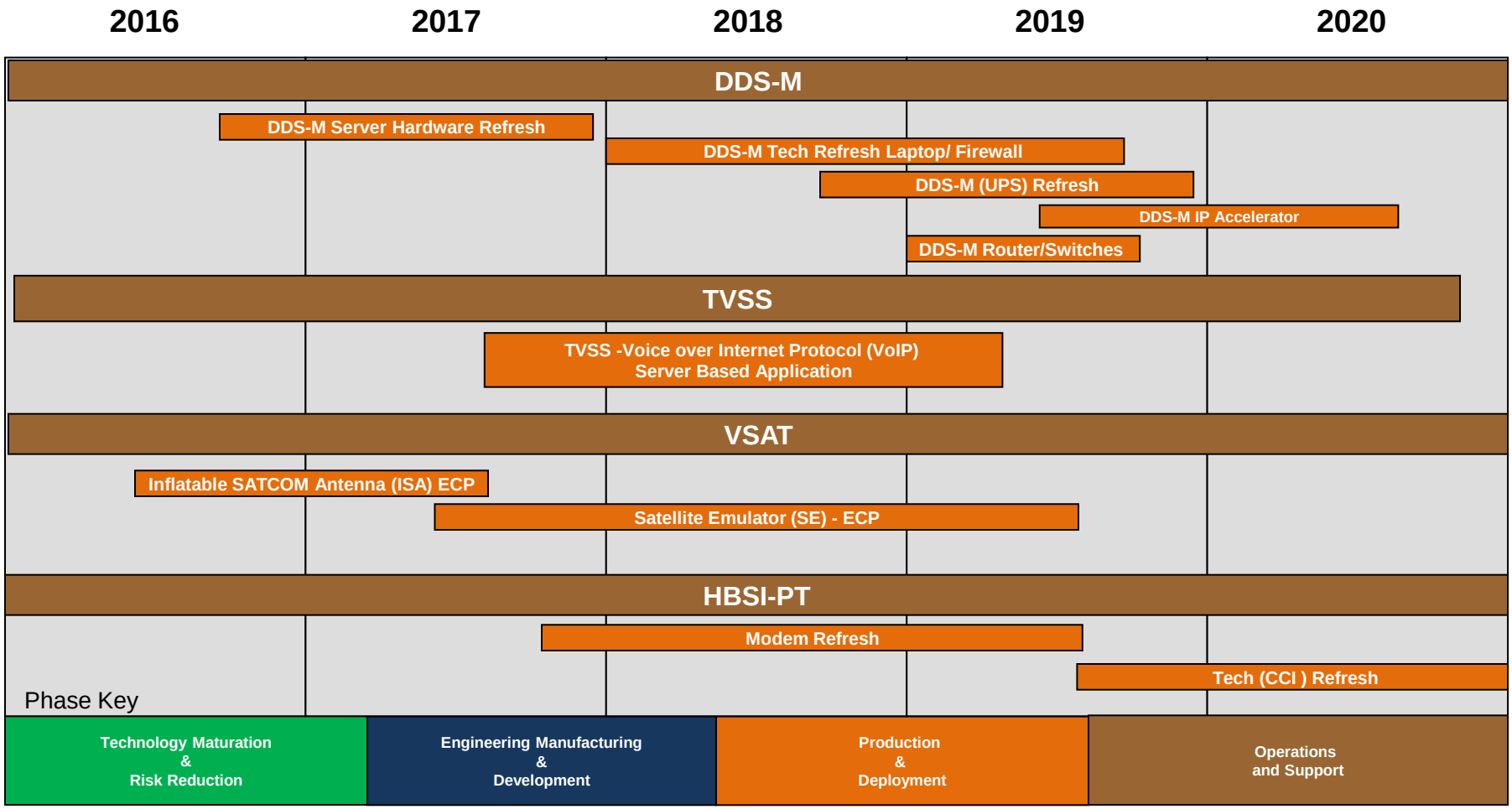
SMART-T
Secure Mobile Anti-Jam Reliable Tactical Terminal

HBSI-PT
High Bandwidth Special Intelligence-Palletized Terminal



ECCS
Expeditionary Command & Control Suite

PdM NSC Business Opportunities



DDS-M Data Distribution System - Modular
VSAT Very Small Aperture Terminal

TVSS Tactical Voice Switching System
HBSI-PT High Bandwidth Special Intelligence-Palletized Terminal

PdM NSC Future Business Opportunities

Title	Funding	Planned RFP
DDS-M Tech Refresh-Server Upgrade	PMC	4Q FY16
DDS-M Tech Refresh-Laptop/Firewall	PMC	1Q FY18
DDS-M Tech Refresh – UPS	PMC	4Q FY18
DDS-M IP Accelerator	PMC	2Q FY19
DDS-M Tech Refresh-Router/Switches	PMC	1Q FY19
TVSS VoIP Server Solution	PMC	3Q FY17
VSAT Inflatable SATCOM Antenna (ISA)	PMC	2Q FY16
VSAT Satellite Emulator (SE)	PMC	2Q FY17
HBSI-PT Modem Refresh	PMC	4Q FY17
HBSI-PT Tech (CCI) Refresh	PMC	2Q FY19

Tactical Communication Systems (PdM TCS)

PdM TCS MISSION

PdM TCS leads the Marine Corps' tactical communication modernization effort through the acquisition and life cycle management of tactical communication systems supporting combat and training operations.

TEAMS Tactical Elevated Antenna Mast System

AN/MRC-142 FoS
AN/MRC-142 Radio Termination Set

Terrestrial High Capacity Communications

Line-of-Sight (LOS) and Beyond LOS voice and data tactical radio capabilities.

AN/TRC-170A
Troposcatter Microwave Radio Terminal System

TSSR
Troposcatter Satellite Support Radio

WPPL-D
Wireless Point-to-Point Link

MBR/MBR II
Multi-Band Radio II

AN/PRC-117G

AN/VRC-114(V)1

AN/VRC-114(V)2

EPLRS
Enhanced Position Location Reporting System-ENM (Network Manager)

Ground Radios

Multiband Line-of-Sight and Satellite man-packable and vehicular mounted capabilities and **Tactical Hand Held Radios** (THHR), line-of-Sight handheld and vehicular mounted capabilities supporting the United States Marine Corps.

AN/VRC-112
AN/VRC-113

IISR
Integrated Intra-Squad Radio

THHR
Tactical Hand-Held Radio

THHR-Maritime

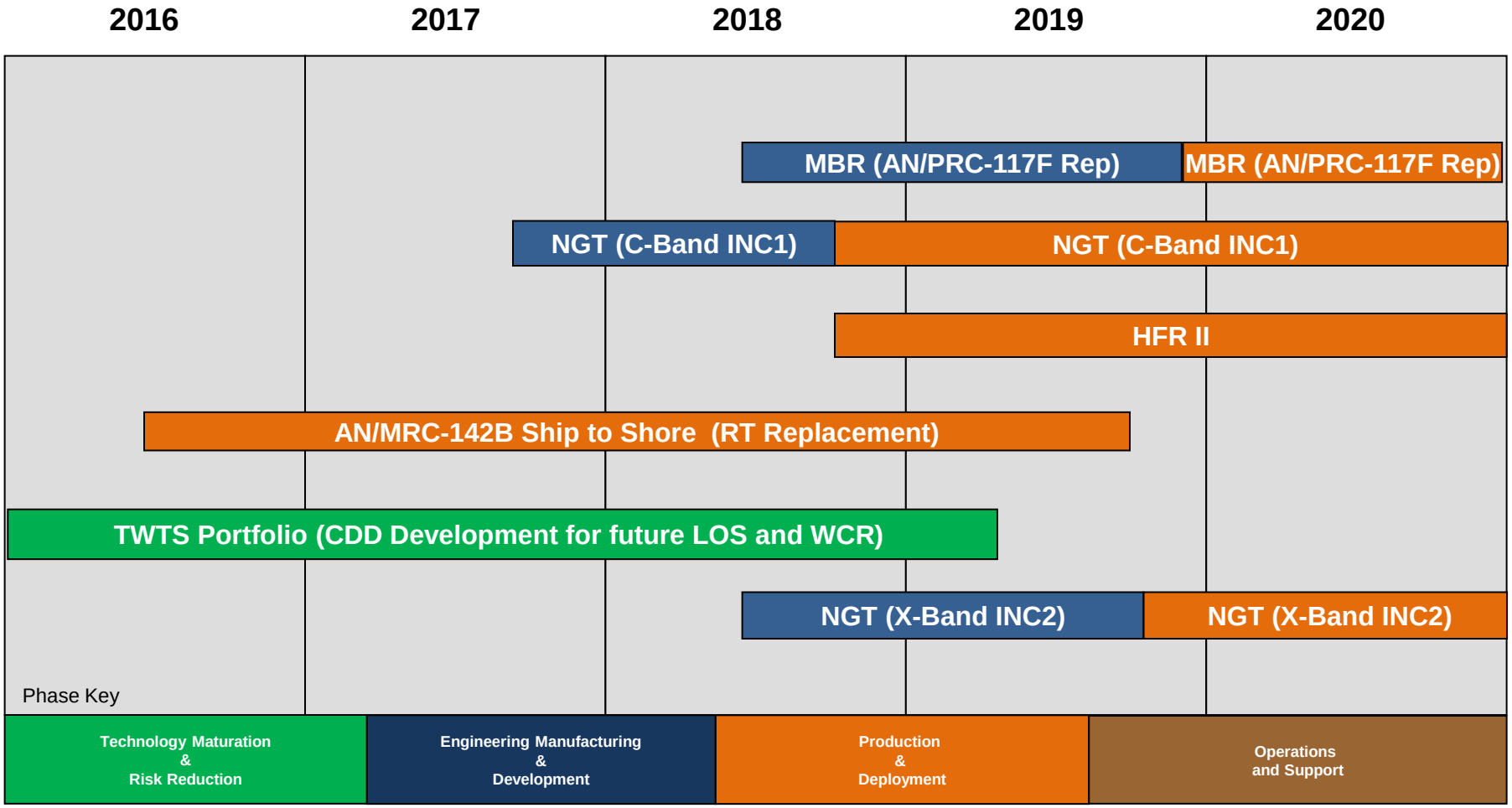
THHR-SVA
Tactical Hand-Held Radio Single Vehicle Adapter

HFR
High Frequency Radio

NGT
Next Generation Troposcatter

Current System
AN/TRC-170

PdM Tactical Communication Systems (TCS) Business Opportunities



Acronym legend

HFR-High Frequency Radio MBR-Multi-band Radio MBR- Multi-band Radio II NGT- Next Generation Troposcatter TWTS- Tactical Wideband Transmission System

PdM Tactical Communication Systems Future Business Opportunities

Title	Funding	Planned RFP
MBR II (AN/PRC-117F Replacement)	PMC	2Q FY18
NGT (EMD) (C-band)	RDT&E	4Q FY17
NGT (Production) (C-Band)	PMC	4Q FY18
HFR II	PMC	3Q FY18
AN/MRC-142B Ship to Shore (RT Replacement)	RDT&E	2Q FY16
NGT (X-band)	RDT&E	2Q FY18
NGT (X-band) (LRIP)	PMC	3Q FY19
NGT (X-Band) (FRP)	PMC	3Q FY21

MC3-Program Manager's Final Comments

- **C2 is a priority within the Commandant's Planning Guidance and Expeditionary Force 21 Tenets**