22nd Annual Expeditionary Warfare Conference

Session: Marine Corps Acquisition

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- The World Today
- Marine Corps Operating Concept (MOC) and the 5th Generation Marine Corps
- Aligning to the MAGTF & New Organization Structure
- Portfolio Review
- Program Executive Officer Land Systems (PEO LS)

Being ready is not what matters.
What matters is winning after you get there.
- LtGen Victor H. Krulak, USMC, April 1965

Our Corps has done two things for this great Nation.
We make Marines, and we win Battles.
- Gen Charles C. Krulak, USMC (CMC), May 1997

Remember, our enemies will never rest. In our business, there's no prize for 2nd Place. That's why we must remain a 'Gold Medal Organization.'
- Gen Robert B. Neller, USMC, February 2017

We are Still a Nation at War

- Marines are forward deployed around the Globe
- High OPTEMPO
- Marines are in harm's way today

What has changed?

- Enemies have developed new capabilities which equal or exceed our own
- We are trading modernization for readiness
- Cyber domain will impact interoperability/distributed Ops

WE MUST:

Integrate the Naval force to fight at and from the sea

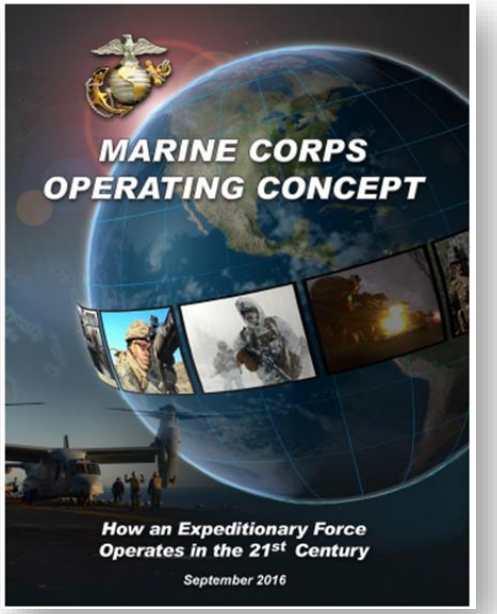
Renew emphasis on fighting for and gaining sea control using sea- and land-based capabilities (Littoral Operations in a Contested Environment)

Evolve the MAGTF

Improve C2 and info integration/sharing, and pursue wargaming/experimentation

Operate with resilience in a contested-network environment

Decentralize decision making, devolve authority and prioritize C2 applications under contested conditions



Enhance our ability to maneuver

Provide capabilities that enable Marines to maneuver equally well in both physical and cognitive dimensions of conflict

Exploit the competence of the individual Marine

Enable individual Marine to think and act effectively under chaotic, uncertain and adverse conditions (i.e. training for integrated Naval operations, exploit LVC training, enhance decision-making skills when C2/ISR are degraded/denied)

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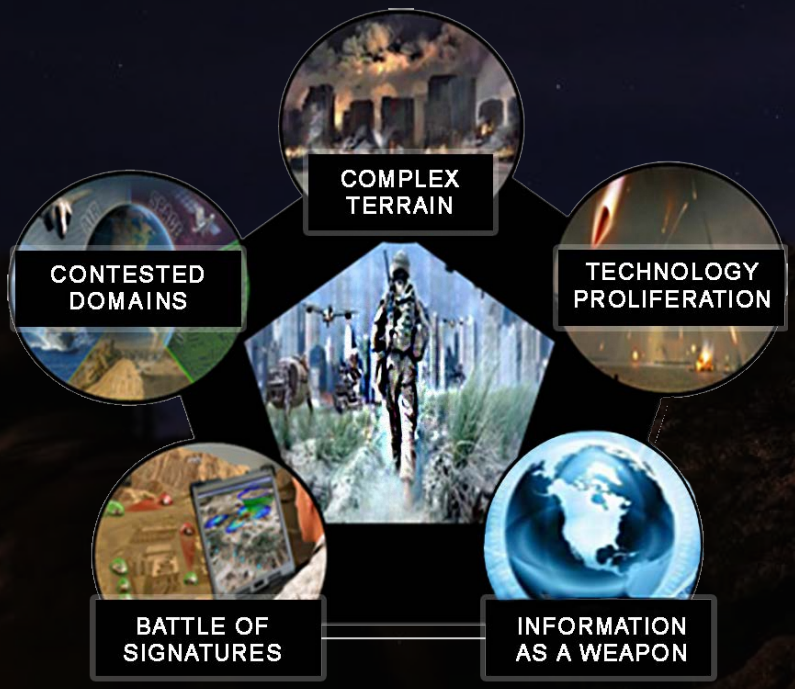
5th Generation Marine

"Fighting and winning against emerging peer competitors will require a 'fifth-generation Marine Corps' capable of competing in technological domains, as well as the traditional air, sea and land kinetic arenas." - General Robert B. Neller , 37th Commandant of the United States Marine Corps

Future "Five Drivers of Change"



Increasing Needs for Capabilities in

- Cyber
- Information warfare
- Electronic warfare
- Unmanned air/ground systems

MAGTF alignment across product lines

"You begin with a deep understanding of the nature of the product you intend to acquire. The form of the program has to follow the function the program will perform: developing and acquiring a specific product. The nature of the product should be the most significant determiner of program structure."

The Optimal Program Structure
Frank Kendall
Under Secretary of Defense for Acquisition, Technology and Logistics

We Produce MAGTF Products

MAGTF Capabilities Across the Range of Mil Ops

MARINE AIR-GROUND TASK FORCE

Command Element

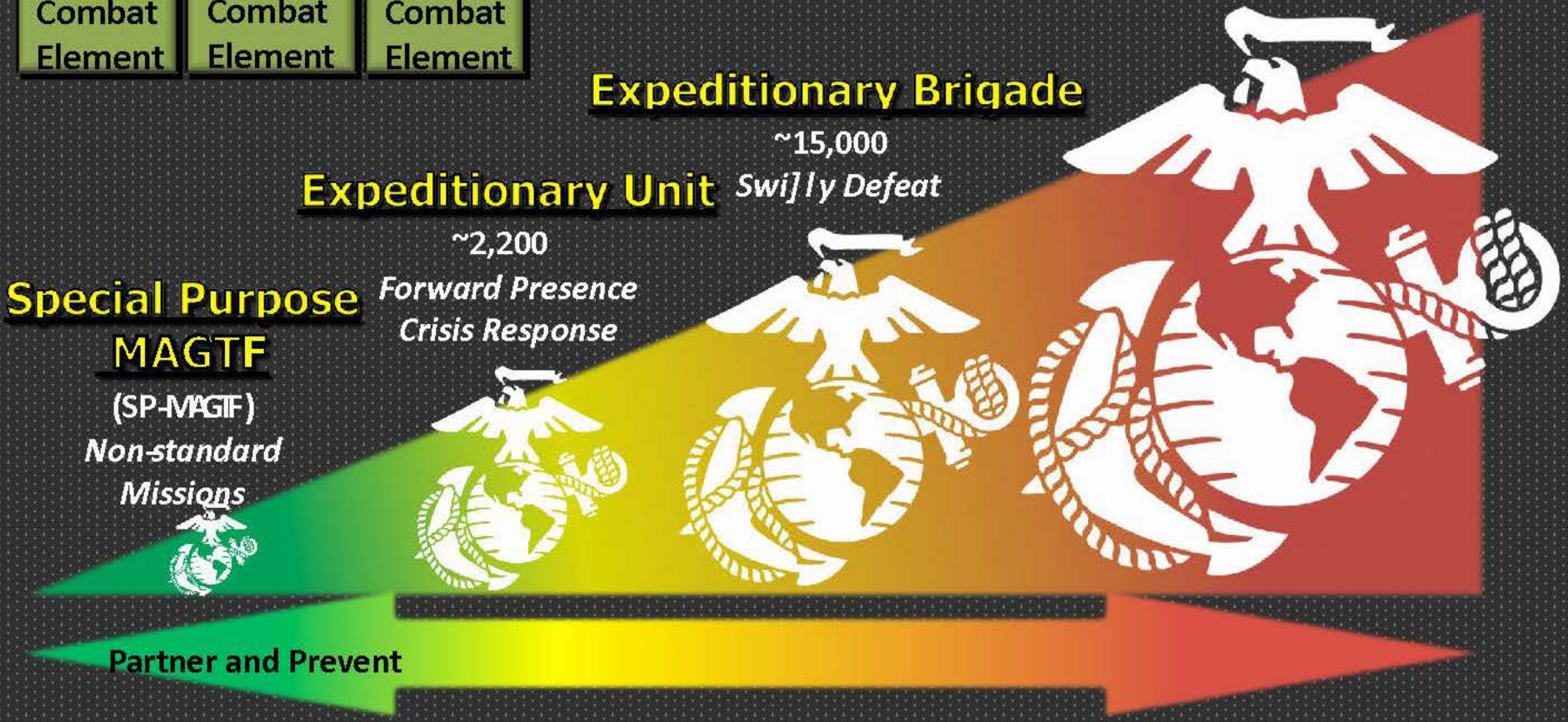
Ground Combat Element	Aviation Combat Element	Logistics Combat Element

Expeditionary Force
~20-90,000
Decisively Defeat

Expeditionary Brigade
~15,000
Swiftly Defeat

Expeditionary Unit
~2,200
Forward Presence
Crisis Response

Special Purpose MAGTF
(SP-MAGTF)
Non-standard Missions



Scalable and tailorable combined arms teams

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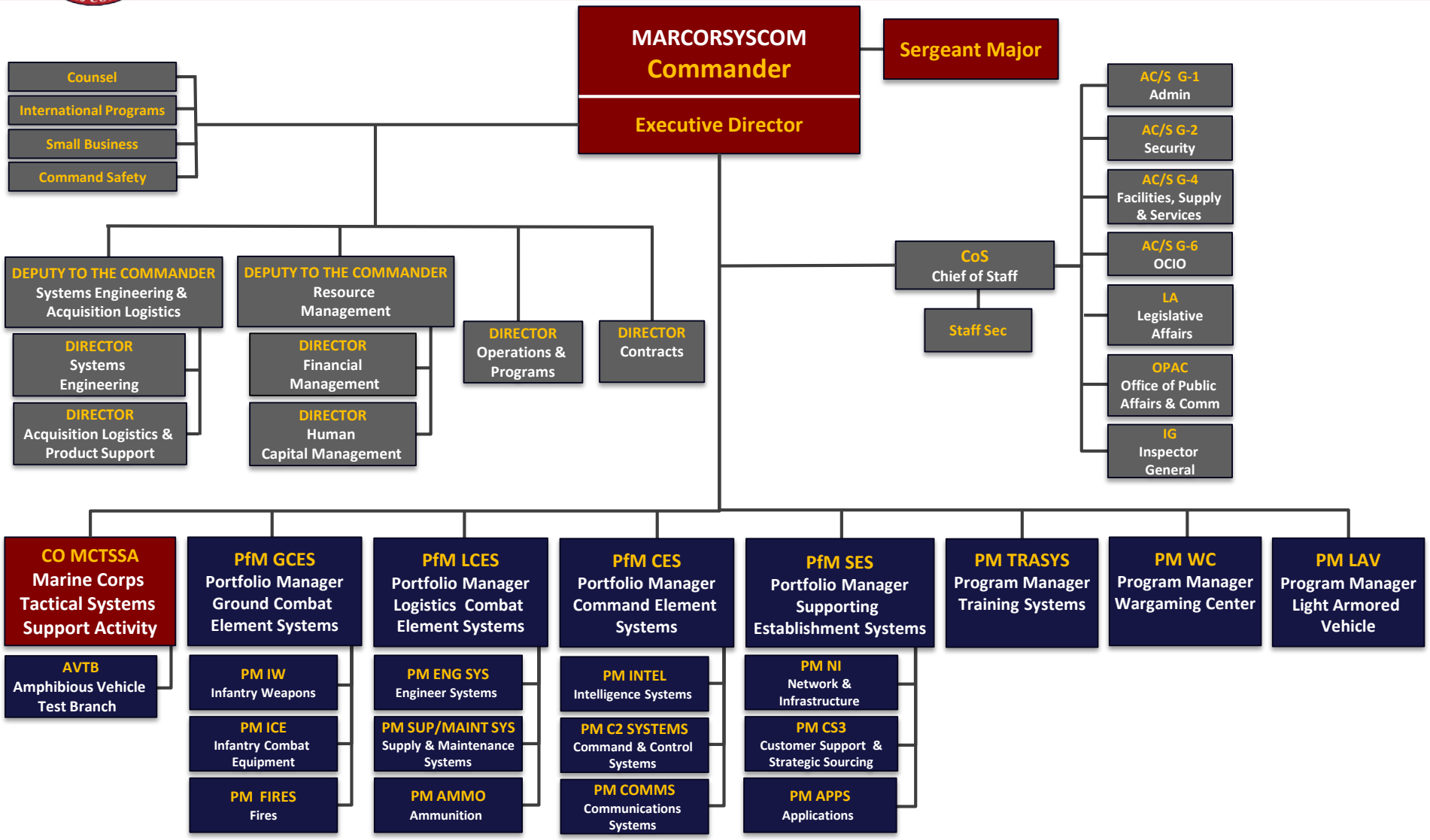
Organization Chart

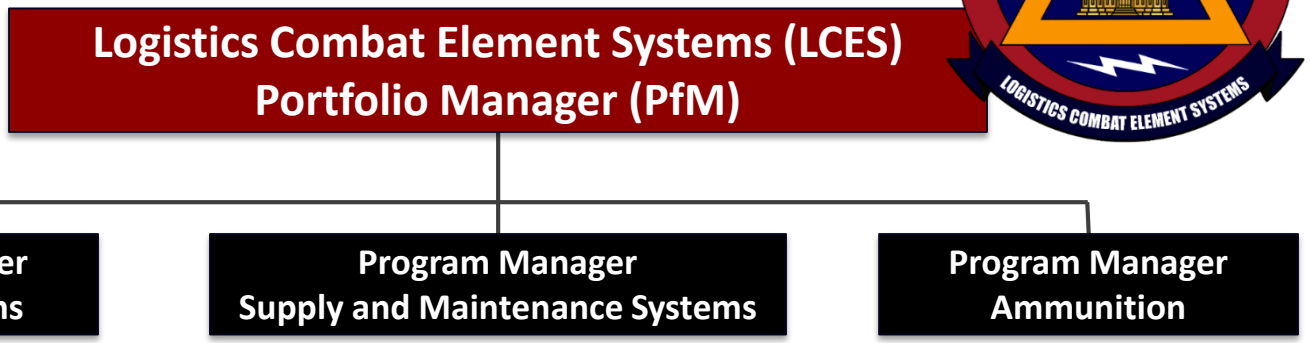


Ground Combat Element Systems (GCES) Portfolio Manager (PfM)

- Program Manager Infantry Weapons
- Program Manager Infantry Combat Equipment
- Program Manager Fires

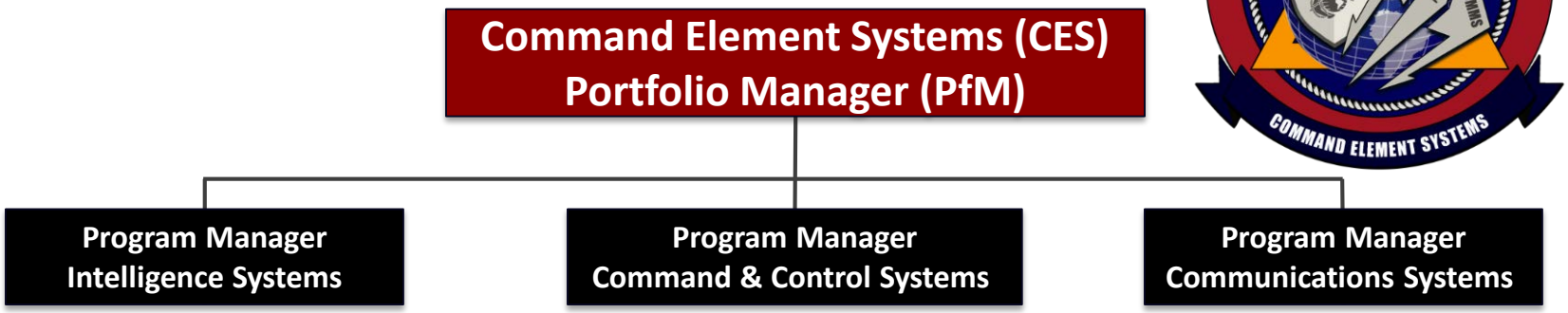
AREAS WHERE INDUSTRY CAN HELP

- Lighter & flexible body armor/plates
- Improved suspension system for helmets
- Flame-resistant fabrics
- Intermediate cold-weather boot (20 degrees to -20 degrees, suitable for skis and snowshoes)
- Hearing protection/enhancement
- Knee and elbow pads



AREAS WHERE INDUSTRY CAN HELP

- Water purification for the platoon level
- Ruggedized common solar panels
- Mobile and hybrid power sources
- Fluid analyzer (oil, transmission, hydraulic & hub differential)
- Handheld microwave communications & radar test set
- Multi-caliber match ammo
- Lightweight ammunition packaging



AREAS WHERE INDUSTRY CAN HELP

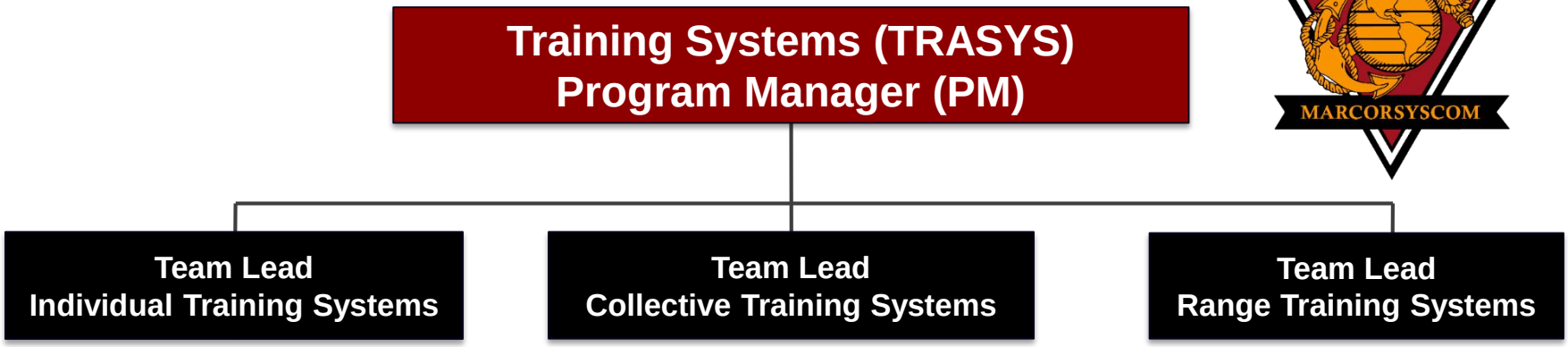
- Cyber security
- Reduce size, weight and power required
- Signature management
- Converging capabilities
- Next-generation SATCOM

Supporting Establishment Systems (SES)
Portfolio Manager (PfM)

- Program Manager Network and Infrastructure
- Program Manager Applications
- Program Manager Customer Support and Strategic Sourcing

AREAS WHERE INDUSTRY CAN HELP

- Increasing cyber requirements and fiscal constraints requires delivery of more affordable capabilities in shorter timeframes
- The desired result is an increasingly integrated IT environment
- Major Information Systems & Infrastructure focus areas:
  - Design networks to support from the fighting hole to the flagpole
  - Key drivers and building blocks for seamless MCEN
  - Consolidate application post-deployment support
  - Integrated cloud development and test environment
  - Unification of legacy networks



AREAS WHERE INDUSTRY CAN HELP

- Attend “Industry Days” to gain information and understand the requirement
- Showcase emerging and mature technologies to demonstrate live, virtual and constructive integration
- Provide feedback and alternatives to resolve obsolete parts for simulators, devices and range targets
- Ask questions early and often throughout the process to clarify issues prior to RFP timeline

Program Manager Wargaming Center

Objective:

- Strategic OPLANS and CONOP review
- Inform capability development, force design and concept refinement

Requirements:

- Support wargames and events, including Joint/Coalition/Interagency
- Provide accurate representation of future operating environments
- Perform rapid, in-depth analysis of game-derived data or insights
- Produce visualizations that enhance wargaming operational environments, execution and aid in understanding wargame outcomes

AREAS WHERE INDUSTRY CAN HELP

- Dynamic M&S at USMC strategic level
- Immersion and visualization for strategic play
- In-stride adjudication capabilities
- Wargame design and analysis

Principal Cyber Advisor

Cyber Leadership, Strategy, Planning

Cyber Advisory Team

- Commandant's Cyber Task Force Executive Off-Site Recommendations
- Emergency and Urgent Cyber Requirements
- Deputy Commandant Information and Marine Corps Forces Cyberspace Command Liaisons
- Cyber/Information Wafare O-6 Representative
- MCEN Unification/Assured Access
- Portfolio Cyber Synchronization Team
- Enterprise Cyber/IT (Win10, JIE, cloud, etc)
- MCEN Planning Yard; Configuration Control
- Cyberspace Workforce Management

Cyber Operations Response Team

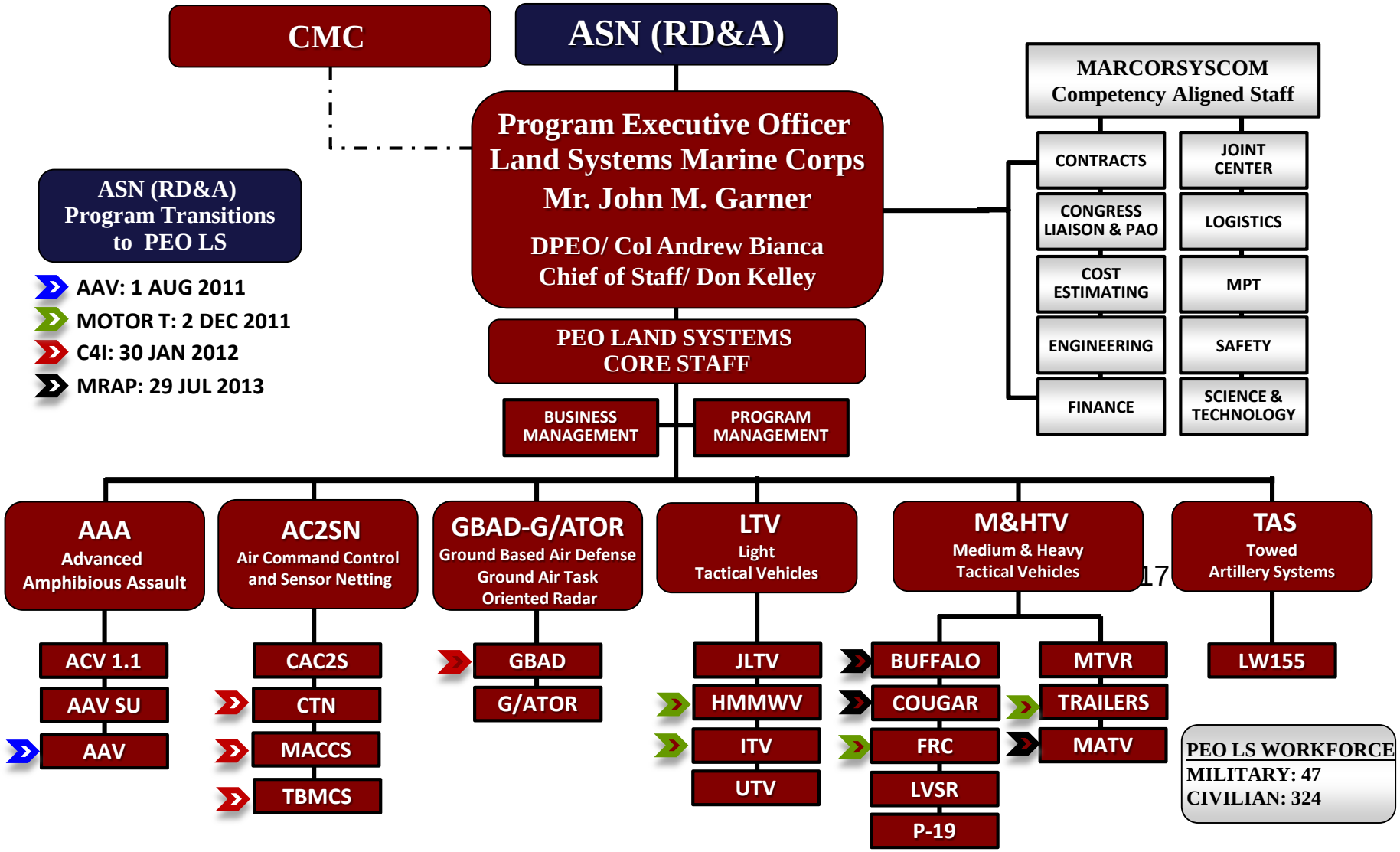
- Named and Non-named Cyber Operations
- Cyber Operations Directives, Tasking Orders, Execute Orders, Messages
- Program of Record (POR) Response Actions, Guidance, and Coordination
- Cyber Commander's Critical and Priority Information Requirements
- Cyber MCATS/DON Tracker Actions
- POR Prioritization
- Cyber Readiness Dashboard
- MCSC Ops Cell synchronization

"Competency" is divided between the Engineering and Program Management Communities of Practice

Background

- **PEO LS is the USMC's only PEO and reports directly to the Assistant Secretary of the Navy for Research, Development and Acquisition (ASN (RDA))**
- **Focal point for Marine Corps major land program acquisition management.**
- **Oversees Marine Corps weapon systems acquisition, while collaborating with the Marine Corps Systems Command (MARCORSYSCOM), to develop, field and supply life-cycle planning for assigned programs.**
- **PEO LS's integral relationship with MARCORSYSCOM leverages infrastructure, competencies and technical authority.**

Organization Chart



Delivering to the warfighter:

JLTV will begin their multi-service Operational Test and Evaluation next quarter and is scheduled to be in full rate production by this time next year.

The Marine Corps has taken delivery of the first four Ground Air Task Oriented Radar (G/ATOR), and is scheduled to field next February.

ACV 1.1 is deep in competitive testing at several sites across the country and is on a projected path for a down-select to one vendor in June 2018.

The fielding of the new P19-R fire truck has begun with units out west getting their first trucks.

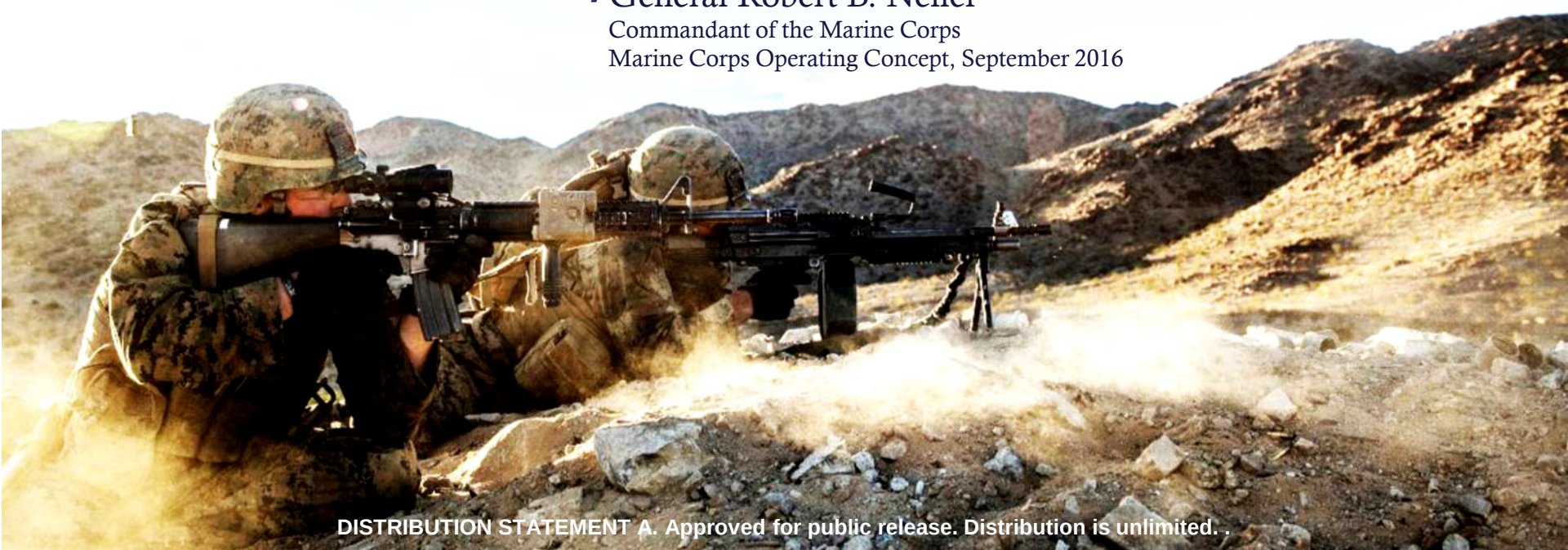
The AAV-SU achieved a successful Milestone C this summer and is currently in low-rate production.

The Common Aviation Command and Control System (CAC2S) is fielding and just awarded a production contract for the remaining 41 Full Deployment Units.

"The profession of arms is unforgiving;
mistakes are paid for in blood and
incompetence can lead to catastrophic defeat.
WHEN WE FIGHT, WE MUST WIN.
THERE IS NO ALTERNATIVE.
The American people expect and
deserve nothing less from their Marine Corps."

- General Robert B. Neller
Commandant of the Marine Corps
Marine Corps Operating Concept, September 2016

QUESTIONS?



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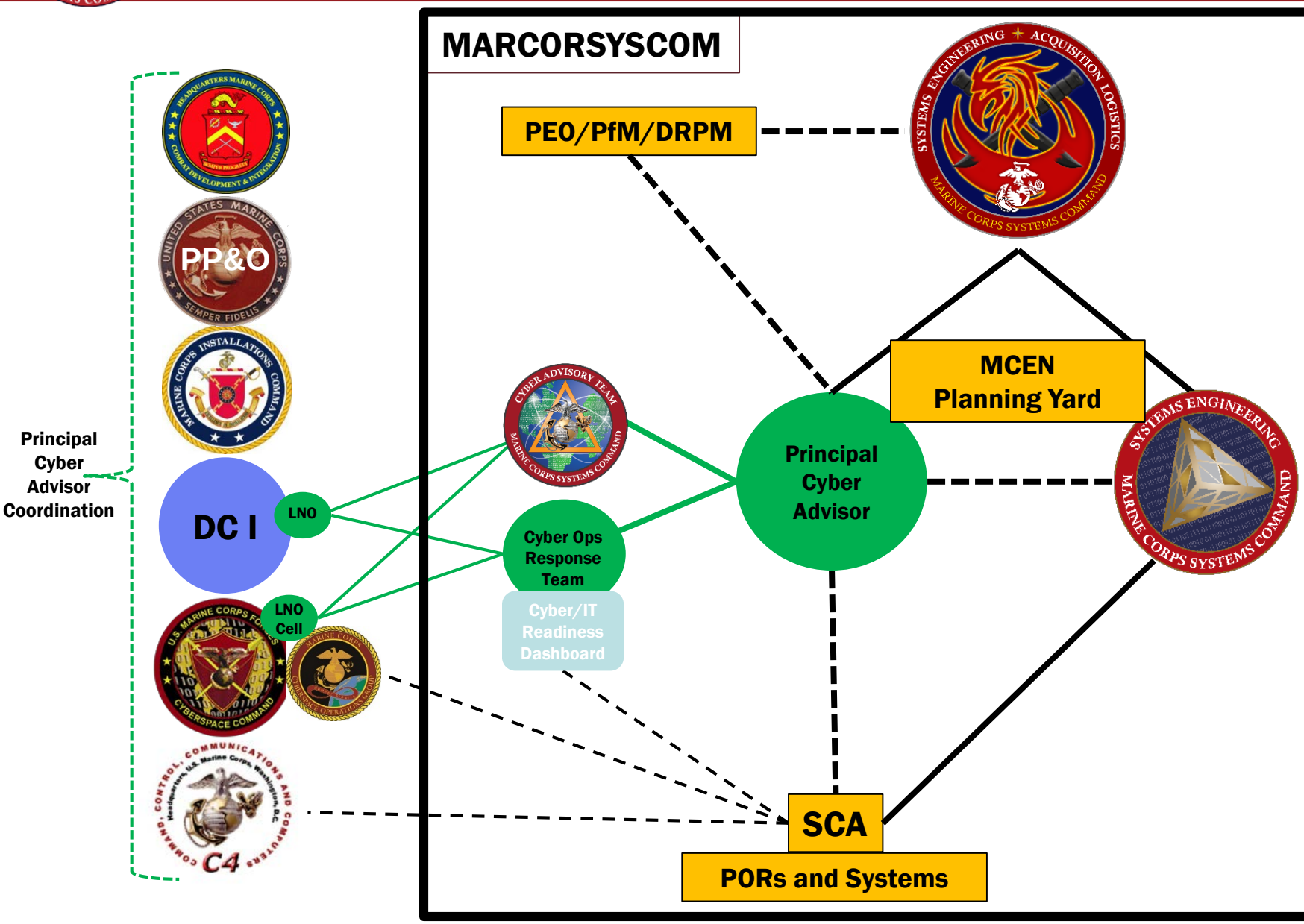
Cyber Organization