

A photograph of two soldiers in camouflage uniforms. One soldier is kneeling on the right, wearing safety glasses and pointing towards a large, treaded tire. The other soldier is kneeling on the left, looking at the tire. They are in a workshop or garage setting with a green vehicle body visible in the background.

NDIA

2023 TACTICAL WHEELED VEHICLES CONFERENCE

February 27 – March 1, 2023 | Columbus, OH | [NDIA.org/TWV23](https://ndia.org/TWV23)



LCES Overview - TWV Conference

Colonel John T. Gutierrez

27 Feb - 01 Mar 2023



MARINE CORPS SYSTEMS COMMAND

Equipping our MARINES

Introduction

\$1.02B annual appropriation (\$6.58B FYDP FY23-27)



Located in 10 States + Japan



452 Marines, Sailors, Civilians & Contractors



ACAT	Pre-MDD	Post-MDD	EMD	P&D	O&S	Total
I	0	0	0	1	0	1
II	0	0	0	0	0	0
III	0	0	0	3	0	3
IV	0	0	0	4	0	4
AAPs + Others/Non-POR*	72	3	9	62	150	296
Total	72	3	9	62	150	304



Vision: Accelerate innovation and delivery of operationally relevant solutions to enable lethality to the Fleet Marine Force



PMM-150



PMM-151



PMM-152



PMM-153



PMM-154

Mission: PFM-Logistics Combat Element Systems equips and sustains the Fleet Marine Force with Engineering, Supply, Maintenance, Ammunition, and Tactical Wheeled Vehicle systems and solutions to enable lethality.



LCES Areas of Expertise

 **Power Systems**

 **Fuel & Water Systems**

 **Explosive Hazard Defeat Systems**

 **Material Handling & Construction Equip**

 **Expeditionary Medical Systems**

 **Shelters, Field Feeding, and Containers**

 **Test Measurement Systems**

 **Tools & Diagnostic Systems**

 **Corrosion Prevention & Control**

 **Advanced Manufacturing Systems**

 **Ground Ammunition**

 **Explosive Safety**

 **Tactical Wheeled Vehicles**

**FY23
FOCUS
AREAS**

PFM

- ▶ Respond to Force Design
- ▶ Engagement, Divestment, Investment
- ▶ Logistics in Contested Environments

PM-Engineering Systems

- ▶ Rapid Statement of Need for EOD (Littoral Explosive Obstacle Neutralization System) (Family of LEON systems)
- ▶ Tactical Aviation Ground Refueling System (TAGRS)
- ▶ Petroleum Expeditionary Analysis Kit (PEAK)

PM-Supply & Maintenance Systems

- ▶ Condition Based Maintenance Plus (CBM+)-pilot program
- ▶ Hand-Held Radio Test Set (HHRTS) – Contract Award
- ▶ Expeditionary Fabrication (XFAB) – Fielding
- ▶ Expeditionary Fluid Analysis System (EFAS) – Fielding
- ▶ Tactical Radio Intermediate Maint. Activity Test Set (TRITS) – Field User Evaluation of TS-4549

PM-Ammo

- ▶ Presidential Drawdown & Replenishment
- ▶ .50 cal polymer lightweight ammunition
- ▶ Fielding Ordnance Information System-Marine Corps Operational Module

PM-Light Tactical Vehicle

- ▶ HMMWV and LTT sustainment and divestment
- ▶ JLTV Vehicle and Trailer Fielding
- ▶ ULTV Fielding

PM-Medium and Heavy Tactical Vehicles

- ▶ Modernization of Medium and Heavy Tactical Vehicle platforms
- ▶ Fielding improved Handline Hoses for the P-19R to the FMF
- ▶ Fielding Medium and Heavy Trailers to the FME



Light Tactical Vehicles

\$(M)	FY21	FY22	FY23
LTV	383.2	348.5	251.7

Appropriation Breakout:

\$(M)	FY21	FY22	FY23
RDT&E	5.4	2.8	3.0
PMC	369.4	339.4	240.8
PANMC	0	0	0.0
OMMC	8.5	6.3	3.0

Medium and Heavy Tactical Vehicles

\$(M)	FY21	FY22	FY23
MHTV	41.8	21.1	28.2

Appropriation Breakout

\$(M)	FY21	FY22	FY23
RDTEN	1.1	1.1	8.4
PMC	29.9	15.7	14.3
OMMC	10.8	4.3	5.5



Two Teams Pressing Forward:

- 153.1 Light Tactical Vehicles & Trailers (HMMWV, LTT, UTV, and ULTV)
- 153.2 Joint Light Tactical Vehicle (JLTV) Family of Vehicles

FY23 Focus Areas:

- JLTV Vehicle and Trailer Fielding
- ULTV Fielding
- JLTV and ULTV systems integration development
- ULTV operator and field level maintenance training execution
- ULTV parts provisioning
- HMMWV FoV and Light Tactical Trailers divestment

Challenges:

- Swiftly responding to support Force Design 2030
- Funding shortfalls
- Resolving diminishing sources of supply and obsolescence

Opportunities:

- Low cost / simple to use corrosion mitigation solutions
- Mild-hybrid / Hybrid / Electrification across the LTV fleet
- Exportable power generated by ULTV



Four Litter Ambulance M997A2



M1102H



M1102MC



ULTV



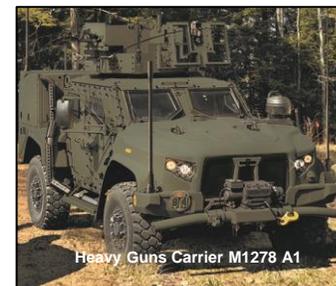
UTV



General Purpose M1280 A1



Utility M1279 A1
JLTV-Trailer M1289



Heavy Guns Carrier M1278 A1



Close Combat Weapons Carrier M1281 A1



Four Teams Pressing Forward:

- 154.1 Family of Trailers and Ancillary Equipment (FT&AE), Mine Resistant Ambush Protected (MRAP) Buffalo Mine Clearance Vehicle, MRAP Cougar & MRAP-All Terrain Vehicle (M-ATV)
- 154.3 Logistics Vehicle System Replacement (LVSR) & P-19R Aircraft Rescue and Fire Fighting (ARFF) Vehicle
- 154.4 Medium Tactical Vehicle Replacement (MTVR)
- Medium Tactical Truck (MTT)

FY23 Focus Areas:

- Modernization of Medium and Heavy Tactical Vehicle platforms
- Fielding improved Handline Hoses for the P-19R to the FMF
- Fielding Medium and Heavy Trailers to the FMF

Challenges:

- Resources - Manpower
- Funding shortfalls
- Commercial parts obsolescence for equipment with legacy requirements resulting in deadlined vehicles
- Supply chain constraints

Opportunities:

- Divestment
- Requirements exploration for the next MTT
- Release of Sources Sought and Requests for Information





Four Teams pressing forward

- 150.1 Product Manager, Power Systems
- 150.2 Fuel and Water Systems
- 150.4 Product Manager, Explosive Hazard Defeat Systems
- 150.5 Material Handling/Construction Equipment

FY23 Focus Areas:

- Rapid Statement of Need for EOD (Littoral Explosive Obstacle Neutralization System) (Family of LEON systems)
- Service Life Extension Programs for Material Handling and Construction Equipment
- Tactical Aviation Ground Refueling System (TAGRS)
- Petroleum Expeditionary Analysis Kit (PEAK)

Opportunities:

- Small Unit Power with a focus on Direct Current support.
 - Lightweight DC Generator with Hybrid capability.
 - Standardizing Direct Current power distribution for common connectivity (DCPD)
 - Family of Solar Panels with common 28 Voltage. (FoS)
 - Lightweight Energy Storage with Hybrid capability. (LESS)
- 60 kW Energy Storage Unit (IPM ESU)

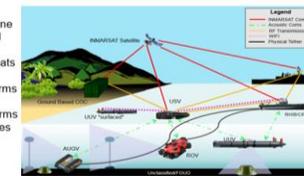
Challenges

- Anticipating future requirements due to Force Design
- Aligning E2O efforts actions with future power needs
- OMMC Funding for sustainment actions
- Battery Certification Process
- Fuel distribution in first island chain



LEON FoS launched from airborne/seaborn platform, or launched from shore:

1. USV to detect threats & facilitate C2
2. UUV detects/confirms threats
3. ROV detects/confirms threats & neutralizes threat in VSW
4. AUGV neutralizes threat in SZ and continue to BZ.



1. LEON ensures hazards and obstacles are confirmed and marked
2. Provide "clear" route/lane to Follow-On Amphibious Force for transition through SZ to BZ.
3. Prepare for follow-on missions as part of Expeditionary Advanced Base Operations





Five Teams pressing forward:

- 151.1 Expeditionary Medical Systems (EMS)
- 151.2 Corrosion & Combat Service Systems (C&CSS)
- 151.3 General Purpose Tools & Test Systems (GPTTS-C)
- 151.4 Automatic Test Systems (ATS)
- 151.5 Advanced Manufacturing Systems (AMS)

FY23 Focus Areas:

- Condition Based Maintenance Plus (CBM+) - pilot program transition
- Hand-Held Radio Test Set (HRTS) - Contract Award
- Expeditionary Fabrication (XFAB) - Fielding
- Expeditionary Fluid Analysis System (EFAS) – Fielding
- Tactical Radio Intermediate Maintenance Activity Test Set (TRITS) – Field user evaluation of TS-4549

Opportunities:

- Pursuing material solutions which complements FD2030
- Leveraging other services to streamline acquisition process and deliver capability to the FMF sooner
- Advanced Manufacturing to enhance readiness in both field/garrison
- CBM+ initiatives (data standards, data capture, data federation)
- Expanding Miniature/Micro-miniature repair capabilities
- Experimenting with scalable field feeding systems and concepts

Challenges:

- Congressional Marks for ATS and CBM+ impacts to future year spending
- Requirements transition for CBM+
- Integrating advanced manufacturing into supply processes





- Organizational Mailbox
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<https://www.marcorsyscom.marines.mil/Portfolios-and-Programs/LCES/>



- Event Dates: 27-29 Jun 2023
- Location: Walter E. Washington Convention Center in downtown Washington DC



[HTTPS://MARINEMILITARYEXPOS.COM/](https://marinemilitaryexpos.com/)

Marine Corps Systems Command

Advance Planning Brief to Industry (APBI)

26 Jun 2023



QUESTIONS?

“As good as we are today, we will need to be even better tomorrow to maintain our warfighting overmatch. We will achieve this through the strength of our innovation, ingenuity, and willingness to continually adapt to and initiate changes...”

- Gen David H. Berger
Commandant of the Marine Corps
Commandant's Planning Guidance, 2019

