



PEO CS&CSS Overview to TWV Conference

Tim Goddette, SES

Program Executive Officer

Combat Support & Combat Service Support



Mission, Vision, and Priorities...



MISSION

Lead an innovative, proficient, and disciplined lifecycle management team that enables America's warfighters by consistently providing integrated, tailored, and cost-conscious products.

VISION

We are the Army's Acquisition experts for Commercial and Non-Developmental Items – rapidly delivering capabilities that reduce Soldier exposure, optimize manpower, and enable sustained mobility, lethality, and the network.

PRIORITIES

- Tailoring and Streamlining
- Human Capital
- Fleet Management

TECHNOLOGIES

- Robotics (Hazard) and Autonomy (Manpower)
- Condition Based Maintenance (Data)
- Advanced Manufacturing (Readiness)
- Technical Manuals (Video)

INTERESTS

- Enabling the "Big Six"
- Competition
- RDT&E to set conditions for future opportunities
- Growth, reliability, ease-of-use, lifecycle cost



Organization



Assistant Secretary of the Army for Acquisition, Technology, and Logistics (ASA(ALT))
Honorable Bruce Jette, Ph.D.



Principal Military Deputy to (ASA(ALT))
LTG Paul Ostrowski



Principal Deputy to (ASA(ALT))
Mr. Jeffrey White



Program Executive Officer
Mr. Tim Goddette



Deputy PEO
Mr. Andrew DiMarco



Executive Officer:
Mr. Nicholas Garon
APEO Business Management:
Mr. Jean (J.P.) Marcoux
APEO Logistics:
Mr. Glen Broman
APEO FMS/Integration:
Vacant
APEO Systems Engineering/Information Technology:
Ms. Michelle Minto
APEO Strategic Operations:
Mr. Steve Roberts

Chief of Staff
COL Shane Fullmer



Expeditionary Energy & Sustainment Systems

PM: COL Adrian Marsh
DPM: Ms. Lisa Stone



PdM Force Sustainment Systems
LTC Alexander Babington



PdM Mobile Electric Power Systems
LTC Anthony Leach



PdD Small Expeditionary Power Sources
Ms. Chen Xi Dong-O'Malley



Force Projection

PM: COL Shane Sullivan
DPM: Mr. Shon-Neil Severns



PdM Bridging
Mr. Steven Rienstra



PdM Appliqué & Large Unmanned Ground Systems
LTC Jon Bodenhamer



PdM Combat Engineer/Material Handling Equipment
LTC Tony Jones



PdM Unmanned Ground Vehicles
Mr. Louis Anulare (USMC)



PdM Petroleum & Water Systems
LTC William Anderson



PD Test, Measurement, & Diagnostic Equipment
Mr. Thomas Lettis



PdM Sets, Kits, Outfits & Tools
LTC Evan Timmens



PL Robot Logistic Support Center
Ms. Diane McCarthy



Joint Light Tactical Vehicle

PM: Mr. Michael Sprang
DPM: Mr. Chris Brouwer
DPM-USMC: Mr. Andrew Rodgers



PdM Vehicle Systems
LtCol Mark Braithwaite (USMC)



PdM Systems Integration
LTC John Nelson



PD Light Tactical Vehicles
Mr. Craig Riedel



PL Ground Mobility Vehicles
Mr. Steven Herrick



Transportation Systems

PM: Mr. Wolfgang Petermann
DPM: Mr. Eric Fletcher



PdM Heavy Tactical Vehicles
Mr. Alvin Bing



PdM Allied Tactical Vehicles
Mr. John Hufstедler



PdM Multi-Mission Protected Vehicle Systems
LTC Michael Riley



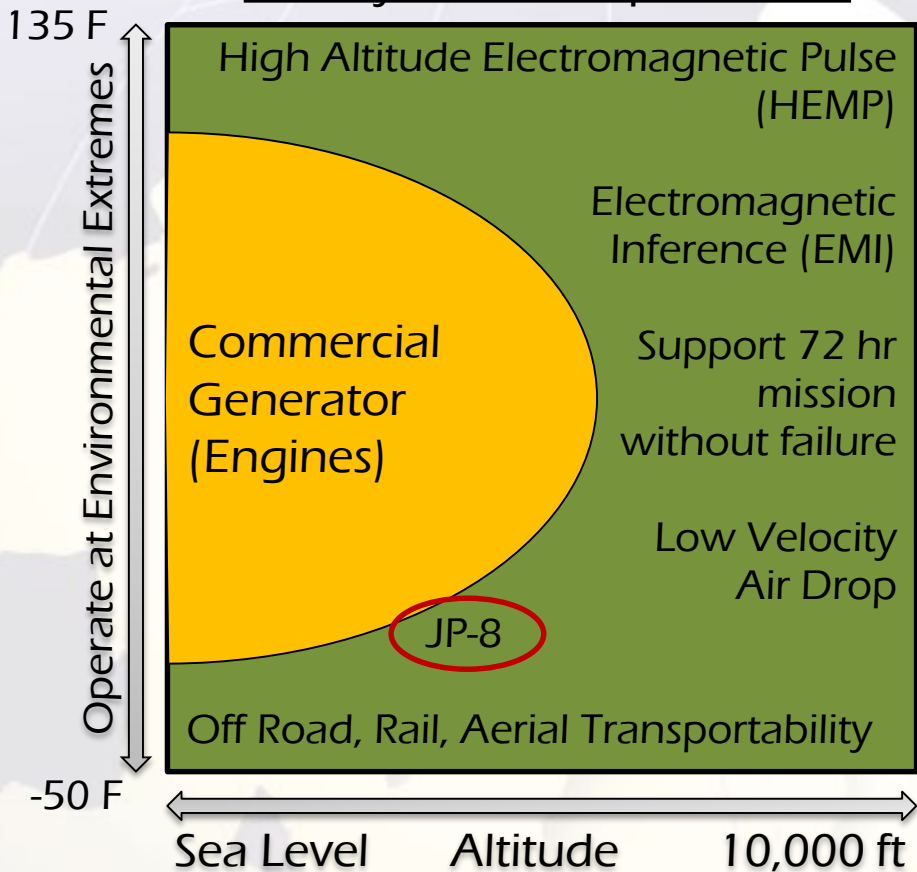
PD Army Watercraft Systems
Mr. Chad Stocker



Military-Commercial Requirement Comparison



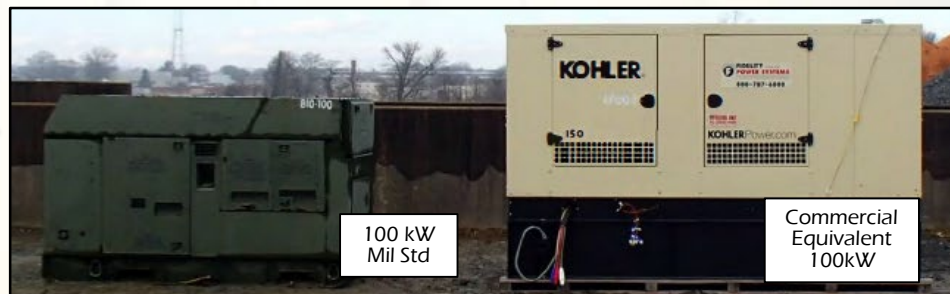
Military Power Requirements



Reliability

Size

Weight



Commercial Generators do not meet the full array of military requirements



Industrial Base Support Across the States



- Partners in 21 states
- **4 Depots and 1 Arsenal**
- **80+ different companies**
 - 16 traditional
 - 67 non-traditional

West

- **Flyer Defense, Los Angeles CA**
- **SIAD, CA**
- **West-Mark, Ceres, CA**
- AMETEK – San Diego, CA
- Joy Signal Technology– CA
- General Micro Systems, Rancho Cucamonga, CA
- Parachute Manufacturer, Santa Anna, CA
- Vigor Works, LLC, Portland, OR

Southwest

- Firetrace Aerospace, Scottsdale, AZ
- Wamore, Inc, Phoenix, AZ
- **Textron, Slidell, LA**
- Swiftships, Morgan City, LA
- **Choctaw, Choctaw, OK**
- **Heil Trailers, Houston, TX**
- **Red River Army Depot, Texarkana, TX**
- Lockheed Martin, Texas

Midwest

- **Rock Island Arsenal-Joint Manufacturing Technology Center, IL**
- **Caterpillar Inc, Peoria, IL**
- **Navistar Defense LLC, Melrose Park, IL**
- **AM General LLC, South Bend/Mishawaka, IN**
- Laibe Corporation, IN
- **Talbert Manufacturing, Inc, Rensselaer, IN**
- **AM General LLC, Auburn Hills, MI**
- **GM Defense, Troy, MI**
- General Dynamics Land Systems, Sterling Heights, MI
- **Polaris, Medina, MN**
- **Cummins Power Generation, Fridley, MN**
- **Leonard DRS, St. Louis, MO**
- Boeing, St. Charles, MO
- MAC Panel, MO
- Brothers Body And Equipment, LLC, Gallon, OH
- Trimble, Trimble, OH
- Battelle Memorial Institute, Columbus, OH
- **O’Gara Hess & Eisenhardt Armoring, Fairfield, OH**
- Robot Solutions, Cincinnati, OH
- **Schutt Industries, Clintonville, WI**
- **Oshkosh Defense, Oshkosh, WI**
- IBVI, Milwaukee, WI
- Beyond Vision, Milwaukee, WI

Southeast

- VT Miltope Corp., Hope Hull, AL
- Strata-g Solutions, Huntsville, AL
- DRS Network & Imaging Systems, Huntsville, AL
- **DRS Leonardo, AL**
- Fibrotex USA, Washington, DC
- **General Dynamics Ord &Tact Sys, FL**
- **Load King Manufacturing Company, Jacksonville, FL**
- Kipper Tool, Gainesville, GA
- **JCB INC, GA**
- **TEREX Corporation, GA**
- Lockheed Martin, Lexington, KY
- Messier & Associates, Inc, Louisville, KY
- **Carolina Growler, Inc, Star, NC**
- Isometrics, Reidsville, NC

Northeast

- Capwell, South Windsor, CT
- **Tru-HITCH, Barkhamsted, CT**
- Draper, Cambridge MA
- Endeavor Robotics, Chelmsford, MA
- Teradyne, North Reading, MA
- QinetiQ North America, Waltham, MA
- **Robotics Research, Gaithersburg, MD**
- Federal Resources, Stevensville, MD
- General Dynamics, MD
- Newton, Hyattsville, MD
- FASCAN International, Sparrows Point, MD
- **Howe & Howe, Waterboro, ME**
- AEE, Clinton, NY
- Buffalo Turbine, Springville, NY
- **TYAD, Tobyhanna, PA**
- **Grove U.S., Shady Grove, PA**
- **Mack Defense, Allentown, PA**
- Airborne Systems North America, Pennsauken, PA
- BAE Systems Land and Armaments Limited Partnership, York, PA
- ARA, Randolph, VT





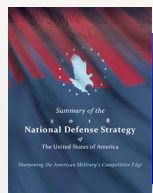
PEO CS&CSS – AFC CFT Linkages



67% of PEO CS&CSS resources are aligned to enable CFT-equipped formations through 30% of current PEO CS&CSS programs



	Programs	Investment FY20-25*	LRPF	NGCV	FVL	Network	IAMD	Soldier Lethality
JLTV	1	\$5,127 M				X	X	X
Infantry Squad Vehicle	1	\$177 M		X				X
Maneuver Support Vessel - Light	1	\$588 M	X	X				
Heavy Equipment Transport System [USAEUR ONS]	1	\$61 M	X	X	X			
Heavy Trailers (Re-supply fuel, ammo)	4	\$225 M	X	X	X			
Assault Breacher Vehicle	1	\$109 M		X				
Joint Assault Bridge	1	\$1,124 M	X	X				
Line of Communication Bridge	1	\$189M	X	X			X	
Expedited Leader Follower	1	\$461 M	X	X				
Robotics	5	\$670 M		X		X		X
Petroleum and Water (Tactical)	7	\$493 M	X	X	X	X	X	
NGATS	1	\$203 M	X	X	X	X	X	X
Tactical Electric Power	5	\$381M	X		X	X	X	X
	31	\$9,808 M						



- “Transitioning from large, centralized, unhardened infrastructure to smaller, dispersed, resilient, adaptive basing...”
- “...invest broadly in military application of autonomy...to gain competitive military advantages.”
- “Prioritize...strategic mobility assets...as well as non-commercially dependent distributed logistics...to ensure logistics sustainment while under persistent multi-domain attack.”





Other Transaction Authority (OTAs)



PM	Product Office	Current Project	Future Project
E2S2	PdM SEPS	2kW Military Tactical Generator (MTG)	
		Platoon Power Generator (PPG)	
		3kW Lightweight Housing Development	
	PdM FSS	Army Standard Family of Rigid Wall Shelters (ASF-RWS)	
		Rapid Rigging & De-Rigging Airdrop System (RRDAS)	
		Expeditionary Solid Waste Disposal System (ESWDS)	
FP	PdM ALUGS	Squad Multipurpose Equipment Transport (S-MET)	
		Leader Follower (LF)	
	PdM Bridging	Line of Communication Bridge (LOCB)	
		Family of High Military Load Class (FoHMLC) AVLB	
	PdM PAWS	Mobile Tactical Retail Refueling System (MTRRS)	
		Bulk Fuel Distribution System (BFDS)	
		HEMTT-LHS Compatible Water Tank Rack (HIPPO)	
	PdM TMDE	Radio Test Set-TS-4549	
PdM UGV	Common Robotics System (Heavy) (CRS(H))	Enhanced Robotic Payloads (ERP) - Unmanned Ground Systems (UGS) (ERP-UGS)	
JLTV	PdL GMV	Infantry Squad Vehicle (ISV)	
TS	PdM HTV	Heavy Equipment Transporter System (HETS) Trailer	Medium Equipment Transporter System Trailer (METS-Trailer)
		25-Ton Semitrailer Low Bed (STLB)	Enhanced Heavy Equipment Transport System (EHETS)
			Cold Weather All -Terrain Vehicle (CATV)



2020 TWV Framework



- The strategy focuses in three areas:
 - Multi-Domain Operations:
 - Payload – Mobility - Protection
 - Transportation-Based Distribution
 - Highlight increased capabilities: active safety, protection, capacity, Condition-Based Maintenance (CBM+) autonomous technologies, and Advanced Manufacturing
 - Investment:
 - Leverage commercial industry investment in automotive technologies, focus limited S&T on military unique capabilities
 - Provide Army Leadership with affordable solutions, competition will be critical (with or without TDPs) to affordability
 - Maintain "Open" Long-Term Contracts to enable our ability to surge, if Army accepts risk with limited procurement funding
 - 100% Armor capable, tiered Force Protection B Kit requirements from blanket 30%
 - Divestiture:
 - Limiting number of variants fielded to reduce impacts to training and sustainment (maintenance & supply chain)
 - Use Sales and Exchange Programs & Divestiture to generate revenue and savings to support TWV modernization
 - Change USR policy to not penalize units for divestment



Ends, Ways, and Means



- **Ends**

- Maintain a viable, modern (avg. age 15 years) and safe fleet
- Strive for fleet commonality
- Maintain an industrial base with surge capability

- **Ways**

- Maintain average annual funding of \$1.5 - 2.0B
- Divestiture of legacy fleet

- **Means**

- OTAs and Open Contracts
- Competition



Project Manager Expeditionary Energy & Sustainment Systems (PM E2S2)

Colonel Adrian Marsh



PM E2S2 Portfolio



Product Director Small Expeditionary Power Sources (PD SEPS)



2kW Military Tactical Generator (MTG)

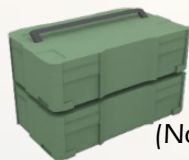
3kW Tactical Quiet Generator (TOG)



Platoon Power Generator (PPG)



Small Tactical Electric Power (STEP)



(Notional)



Product Manager Mobile Electric Power Systems (PM MEPS)



5-60kW Advanced Medium Mobile Power Sources (AMMPS)



Microgrid



Power Units (PU)

Prime Power - 840kW Deployable Power Generation & Distribution System (DPGDS)



Power Plants (PP)



Large Advanced Mobile Power Sources (LAMPS)



Power Distribution Illumination Systems Electrical (PDISE)



5-60kW Tactical Quiet Generators (TOG)



100kW/200kW Tactical Quiet Generators (TOG)



Product Manager Force Sustainment Systems (PM FSS)

Expeditionary Support



Cargo Aerial Delivery

- EHLSCDS
- ALVADS
- JPADS
- LCADS
- SADE
- RRDAS



Shelter Systems

- ASF-RWS
- ASF-SWS
- ULCANS
- ASLMS
- ESPS



Expeditionary Service Support



Heaters & Environmental Control Units

Force Provider Expeditionary Modules



Field Feeding

- Assault Kitchen
- Containerized Kitchen
- Mobile Kitchen Trailer



Field Services

- MTRCS
- MIRCS
- 12 Head Shower
- Mortuary Affairs





- **Small Expeditionary Power Sources**

- **PPG:**

- Vendor down select for PPG COTS production contract **(T) RFP 1QFY21 - Award 2QFY21**
- PPG Electronic Technical Manual (ETM) purchase **(T) 2QFY20**

- **STEP:**

- Lightweight 2kW COTS generator development OTA **(T) RFP 1QFY20 and Award 2QFY20**

- **Force Sustainment Systems**

- JPADS 2K Block 1 Avionics Module – **Sep 2020**
- Force Provider Technical Assistance Team Contract – **Aug 2020**
- Integration of Kitchens, Latrines, Shower, Sanitation - GFE containers (ETS Contract) – **Aug 2020**
- ESWDS Production Contract– **Nov 2020**



Project Manager Joint Light Tactical Vehicles (PM JLTV)

Michael Sprang



JPO JLTV Initiatives



Joint Light Tactical Vehicles
(Army and Marine Corps)



Light Tactical Vehicles
(Army)



Ground Mobility Vehicles
(Army)



Mission

The Joint Program Office Joint Light Tactical Vehicles will develop, acquire, field and sustain a portfolio of Light Tactical Vehicles, with a focus on affordability, continuous process improvement, and partnering, in order to provide capability and flexibility to Joint Forces across the full spectrum of military operations throughout the economic useful life of the portfolio.

Vision

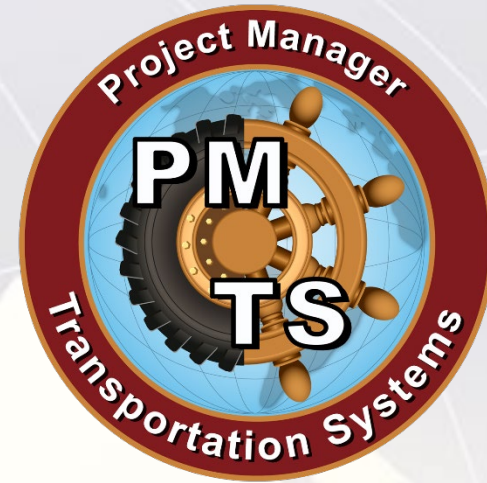
Developing and Empowering the premiere acquisition workforce to deliver the World's Best Light Tactical Vehicles to the Joint Force to accomplish their mission

• Industry Opportunities

- Competition
 - Follow-on JLTV (truck and trailer)
- System technical solutions
- Other transactional authorities
- Partner with primes

• Focus areas

- Balance performance and cost
- Balance speed to warfighter with quality
- Balance modernization with sustainability



Project Manager Transportation Systems (PM TS)

Wolfgang Petermann



PM TS Upcoming Opportunities (FY20-22)



- **Heavy Trucks**

- Enhanced Heavy Equipment Transporter System (EHETS) Trailer RFP release in FY21
- Medium Equipment Transporter (MET) RPP release in FY21
- Introducing competition for Heavy Truck Family of Vehicles, RFI pending
- Total Package Fielding (TACOM Strategic Service Solution (TS3)) FY20-FY25

- **Allied Tactical Vehicles**

- A 10-year IDIQ follow-on effort for the NMS GVS contract (MARVEL) which supports Afghan National Defense Security Forces for Training, Mentoring and Contractor Logistics Support is currently in development. - FY 21

- **Multi-Mission Protected Vehicle Systems (MPVS)**

- Cold Weather All-Terrain Vehicle (CATV) – TBD FY21
 - Draft Performance Specification (P-Spec) – Released 31 Jan 2020
 - OTA Release for Prototype Proposal (RPP) – 3QFY20
 - OTA Award of Task Assignment 1QFY21 – estimated \$4-\$6.3M Total RDTE
- Family of Medium Tactical Vehicles (FMTV) Total Package Fielding (TACOM Strategic Service Solution (TS3)) FY20-FY21 – \$3 to 7M

Watch SAM.GOV for these opportunities! <https://beta.sam.gov>



Back-Up Charts



Shifting the Curve

