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
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 Garin
APEO Business Management:
Mr. Jean (JJP) Marcoux
APEO Logistics:
Mr. Glen Bronson
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 Combat Engineer/Material Handling Equipment
LTC Tony Jones
PdM Petroleum & Water Systems
LTC William Anderson
PdM Sets, Kits, Outfits & Tools
LTC Evan Timmens

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 Hufstedler
PdM Multi-Mission Protected Vehicle Systems
LTC Michael Riley
PD Army Watercraft Systems
Mr. Chad Stocker
Military Power Requirements

High Altitude Electromagnetic Pulse (HEMP)

Electromagnetic Inference (EMI)
Support 72 hr mission without failure
Low Velocity Air Drop

Commercial Generator (Engines)

Off Road, Rail, Aerial Transportability

JP-8

Operate at Environmental Extremes

Sea Level Altitude 10,000 ft

Reliability Size Weight

-50 F 135 F

Commercial Generators do not meet the full array of military requirements
### 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
- Laihe 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

### 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, Stevenville, 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 North America, Pennsauken, PA
- ARA, Randolph, VT

### West
- Flyer Defense, Los Angeles CA
- SIAAD, 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

### Southeast
- VT Miltope Corp., Hope Hull, AL
- Strata-g Solutions, Huntsville, AL
- DRS Network & Imaging Systems, Huntsville, AL
- DRS Leonardo, AL
- Fibrotx 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

### Partners in 21 states
- 4 Depots and 1 Arsenal
- 80+ different companies
  - 16 traditional
  - 67 non-traditional
67\% of PEO CS\&CSS resources are aligned to enable CFT-equipped formations through 30\% of current PEO CS\&CSS programs

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

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

Product Manager
Mobile Electric Power Systems (PM MEPS)

- 5-60kW Advanced Medium Mobile Power Sources (AMMPS)
- Microgrid
- Power Units (PU)
- Power Plants (PP)
- Large Advanced Mobile Power Sources (LAMPS)
- Power Distribution Illumination Systems Electrical (PDIESE)
- 100kW/200kW Tactical Quiet Generators (TQG)

Product Manager
Force Sustainment Systems (PM FSS)

- Expeditionary Support
  - Cargo Aerial Delivery
    - EHLSCDS
    - ALVADS
    - JPADS
  - 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

Power Generation, Power Distribution, and Force Sustainment Service Support
PM E2S2 Upcoming Opportunities

• 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
### 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.

### JPO JLTV Initiatives

**Vision**

**Mission**

<table>
<thead>
<tr>
<th>Joint Light Tactical Vehicles (Army and Marine Corps)</th>
<th>Light Tactical Vehicles (Army)</th>
<th>Ground Mobility Vehicles (Army)</th>
</tr>
</thead>
</table>

### Focus areas

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

### Industry Opportunities

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

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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.
• 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

Cost ($) vs. Capabilities / Performance

1990 vs. 2020

- Fewer Systems
- More Capabilities

Military Unique vs. Commercial Base