Advanced Planning Briefing to Industry

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PEO LS Program Portfolio

Advanced Amphibious Assault (PM AAA)
- AAV
- ACV

Medium & Heavy Tactical Vehicles (PM M&HTV)
- MTVR
- P-19R
- LVSR

Light Tactical Vehicles (PM LTV)
- JLTV
- UTV
- HMMWV

Air Command Control and Sensor Netting (PM AC2SN)
- CAC2S/MACCS/CTN

Towed Artillery Systems (PM TAS)
- LW155

Ground Based Air Defense (PM GBAD)
- MADIS
- AMANPADS

Ground/Air Task Oriented Radar (PM G/ATOR)
- G/ATOR
# PEO LS Program Portfolio

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## Sustainment

- **ACAT I**
  - MADIS Inc 1 (Entering at MS C)

- **ACAT II**
  - MADIS Inc 1 (Entering at MS C)

- **ACAT III**
  - MADIS Inc 1 (Entering at MS C)

- **ACAT IV**
  - MADIS Inc 1 (Entering at MS C)

## Other

- Drone Defender
- C-UAS (UUNS)
- MADS-K
- CLaWS
- MADIS Inc 0 (JUON)
- MADIS Inc 1 (JUON)
- LMADIS (JUON)
- AAV (Legacy)
- UTV
Upcoming Contract Opportunities

- **PM AAA - Field Service Support** - (New Contract – FAR Part 16.5 procedures with Full and Open competition – SeaPort NxG) – FY 20

- **PM GBAD - Program Support** - (New Contract – Small Business Set Aside – SeaPort NxG) – FY 20

- **PM GBAD – Virtual Stinger Trainer** - (New Contract – Full and Open competition) – FY 20

- **PEO LS Corporate - Staff Support** – (New Contract - 8(a) Small Business Set Aside) – FY20

- **PM G/ATOR - Program Support** - (New Contract – FAR Part 16.5 procedures with Full and Open competition – SeaPort NxG) – FY 21

FIELD FASTER / SUSTAIN LONGER FOR LESS
Areas where Industry can help:

- Longer shelf-life for transparent armor
- Fuel efficiency options
- Lighter weight armor
- Leader/Follower – Unmanned options for Motor Transport
Areas where Industry can help:

- Lighter plate armor and lighter transparent armor for vehicles
- Transparent armor that doesn’t delaminate
- Condition-based maintenance vehicle solutions
- Vehicle noise reduction measures to reduce internal and external noise and eliminate the need for earplugs
- Leader/Follower – Unmanned options for Motor Transport
- JLTV integration work
Areas where Industry can help:

- Lower price after-market suitable replacement for G/ATOR OEM parts that meet form, fit and function specifications
- Post-GaN technologies that improve efficiencies, reduce power with minimal hardware redesign
- Tactically quiet and lighter Environmental Control Units and generators
- Advances in Data Management, specifically storage analysis and retrieval
Areas where Industry can help:

- **Marine Air Defense Integrated System (MADIS)**
  - Low cost C-UAS effectors
  - Small, low power consumption radars capable of On-the-Move performance

- **Medium Range Intercept Capability (MRIC)**
  - Fire Control Radar capable of full 360 coverage and high track update rate
  - Compact, lightweight generators capable of >3.5kW power

- **Upcoming Potential Contracts**
  - Fire Control Radar for MRIC (TBD)
  - IFF Antennae (TBD)
  - Stinger Optic (TBD)
Amphibious Combat Vehicle

Areas where Industry can help:

- Lightweight armor solutions (Blast & direct Fire)
- Active Protection Systems
- Lightweight components
- Crew Visibility/Situational Awareness
  - Fully blacked-out land/water operations
  - Station keeping & Obstacle detection
  - Urban environments
  - GPS-denied environments
- Planned Business Opportunity:
  - Single Amphibious Integrated Precision Augment-Reality Navigation System (SAIPAN) – Navy SBIR (funding source) – 3Q FY20
Advanced Amphibious Assault (PM AAA)

Assault Amphibious Vehicle

Areas where Industry can help:

- **Reliability/Sustainability**
  - Corrosion & Wear Prevention
  - Parts obsolescence/DMS
  - Alternative lightweight, economical materials

- **Autonomous**
  - Perception sensors
  - Remote and Artificial Intelligent vehicle control

- **Communications**
  - Small, lightweight, versatile antennas

- **Power and Energy**
  - Intelligent power management systems
  - Marinized power inverters
  - Lightweight efficient high energy storage embarkable onboard Naval ships
Technology Opportunities

➢ 2019 PEO LS **Advanced Technology Investment Plan (ATIP)** identifies each Program’s top technology needs
  • Power & Energy / Survivability & Mobility / Modeling & Simulation
  • ATIP Link: [http://go.usa.gov/xV85Q](http://go.usa.gov/xV85Q)

➢ Small Business Innovative Research (SBIR) and Rapid Innovation Fund (RIF)
  • Opportunity for small business to help solve technology needs
  • $10-15M typical per year

➢ PEO LS Science & Technology POC is Mr. Scott Story
  • [william.story@usmc.mil](mailto:william.story@usmc.mil)
  • 703-784-2824
Technology Focus Areas

- **Survivability**
  - Integrated Air and Missile (IAMD), safety, autonomy, self-healing networks

- **Mobility**
  - Situational awareness, weight reduction, reduced deployment time

- **Power and Energy**
  - Fuel efficiency, onboard vehicle power

- **Modeling and Simulation**
  - Model Based Systems Engineering (MBSE), underbody blast, design trades, vehicle dynamics

- **Maintenance**
  - Corrosion Prevention and Control (CPAC), armor manufacturing and repair, reduced life cycle costs
Questions?