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“Making the Transition to the Future”
PM LAV

- **PM LAV Mission** - Research, development, acquisition and life cycle support for USMC Light Armored Vehicle family of vehicles.

- **Our Location** – MARCORSYSCOM program office supported by TACOM in Warren, Michigan

- **LAV** – in the Light Armored Reconnaissance Battalion.
  - Conduct reconnaissance, security, and economy-of-force operations, limited offensive or delaying operations that exploit the unit’s mobility and firepower.
  - Eight-wheeled armored combat vehicle with a 25-year history to remain in service until to 2025 and possibly beyond.

- **MPC** – will reside in the Amphibious Assault Battalion.
  - Provide armor-protected mobility for infantry battalion maneuver task forces. 2 MPCs will lift a reinforced rifle squad.
  - The MPC program balances vehicle performance, protection, and payload attributes.

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LAV Modernization Plans

Funded Programs
– LAV-C2 Upgrade - Moving towards Milestone-C.
– LAV-AT Upgrade - Moving towards Milestone-B.
– OIF Upgrades, A2 Upgrade, LAV Re-Procurement- Fielding.
– LAV Survivability Upgrades - Part II

Future LAV Projects (FY10-11)
– LAV Rapid Acquisitions & Modifications (RAM)
– LAV Fleet Sustainment Upgrades – EPLS
– LAV-R Upgrades (Crane, Winch, Generator)

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Past RAM Projects

ALL PROJECTS COME OUT THROUGH:
Federal Business Opportunities

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LAV Survivability Upgrade – Part II

- Incorporate *Floor Spall Liner*

- *Protection or Relocation of Fuel Tank*

- Incorporate *Mine Blast Resistant Seating* where possible
  - LAV-25
    - VC and Gunner
    - Scouts
  - Mission Role Vehicles
    - VC and staff locations
  - Driver cannot be suspended but will need a reinforced seat and leg protection

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• USMC LAV projected to remain \textit{in service until 2025}

• LAV family of vehicles must remain:
  – \textbf{Effective} in the face of increasing threat capabilities
  – \textbf{Supportable} in the face of increasing age (CBM+ & Obsolescence are growing issues)

• The challenge: \textit{How much survivability, lethality and mobility can be packed into an air-transportable, swim-capable LAV?}

• \textbf{Near Future:}
  - LAV RAM projects
  - LAV Survivability Upgrades
  - LAV Sustainment Upgrades

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Marine Personnel Carrier (MPC)

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Where Does the MPC Fit?

Marine Corps future triad of tactical mobility

- The MPC, as the medium capability category platform, provides a bridge in capability between the EFV and JLTV and a balance between the performance, protection and payload attributes.
- The MPC is an expeditionary armored personnel carrier - ideal for irregular warfare - yet effective across the full range of military operations, providing armor-protected mobility for infantry battalion maneuver task forces.
- The MPC family of vehicles includes the baseline Personnel Carrier and two supporting mission role variants: a Command & Control variant and a Recovery & Maintenance variant.

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Currently working with ONR to mature technologies that need to be integrated on the MPC

- **Advance Lightweight Armor** Materials/Technologies
- **Advanced Seat Technology** for blast resistance, shock mitigation and roll-over protection
- **Active Protection System**
- On-Board Vehicle Power for **exportable power**
- **Fuel Efficiency** & Battlefield Power
- **Advanced Suspension**
- **TBD**
Technology Demonstrator Vehicle

The MPC technology demonstrator vehicle will address:
- Mobility (Powerpack, drivetrain, suspension system)
- Survivability (hull shape, armor, weight effects on mobility)
- Electrical power generation, management and distribution
- C4ISR integration
- Vehicle health monitoring (data bus architecture and capacity)

Nevada Automotive Test Center (NATC): Designer and Integrator

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◊ Industry Day

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“Making the Transition to the Future”

Questions?